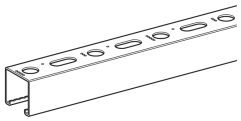
Channel MS 27 - 1,25



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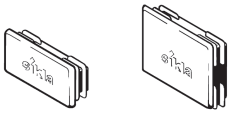
End cap ADK 27



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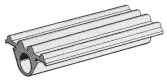
Channel Lining SAL 27



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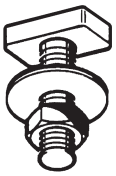
T-Head Bolt HM 27



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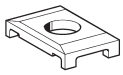
Holding Bracket HK 27



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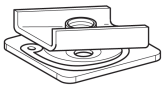
Channel Nut NT 27

Page **1**-8

Speed Nut NT CC 27

Page **1**-9

Block PB 27



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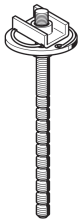
Blockset PBS CC 27



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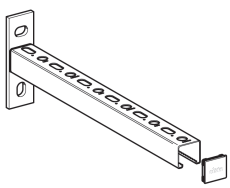
Cantilever Bracket AK 27 - 1,25



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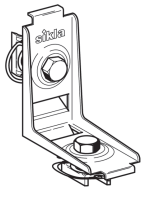
90° Angle Connector CN CC 27



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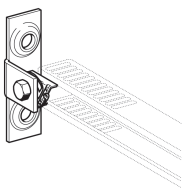
T Bracket MOS 27



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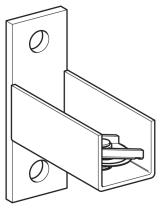
Channel Holder MOF 27



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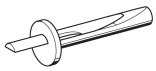
Nail Anchor PN 27



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Setting Tool PN

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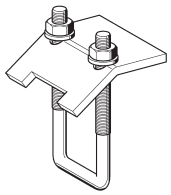
Screwbolt MMS-PR

Page **1**-18

Beam Clamp SB 27



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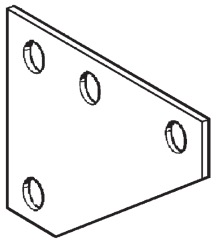
Web Plate KNO



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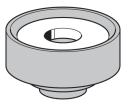
Sound Absorption Unit SDE 27



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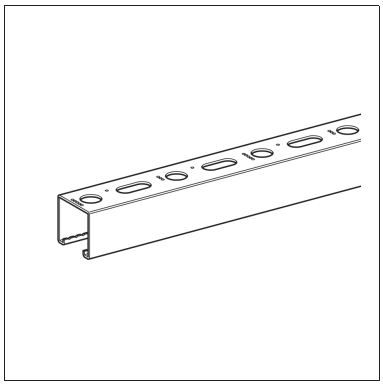
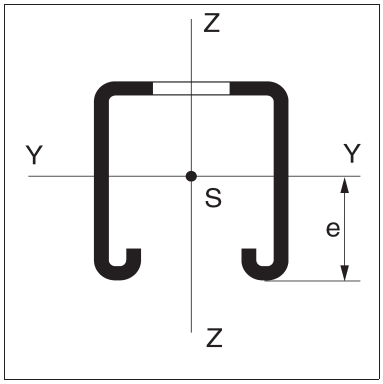
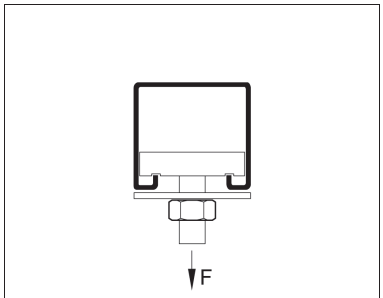
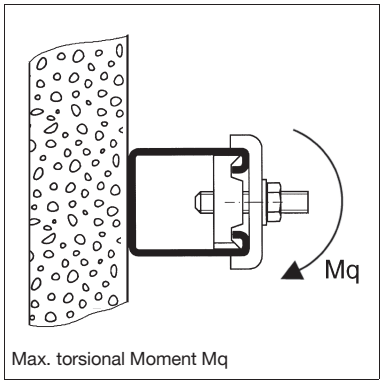






Max. Point carrying capacity Fz



Max. torsional Moment Mq

Channel MS 27 - 1,25

Group: 2711

Application

Element for easily and efficiently pre-assembling crossbars, wall brackets and support structures on site or in workshops.
All products within the Pressix CC 27 range are compatible with Channel MS 27.

Installation

Fixation of the channel easily could be achieved using Nail Anchor PN and Bolt Screw Anchor MMS-PR.

Technical Data

Material: Steel 1.0350, pre-galvanised according to DIN EN 10346

Type B/H/s [mm]	Section modulus [cm^3]	Moment of inertia [cm^4]	Radius of gyration [cm]
27/15/1.25	W_y : 0.27 W_z : 0.65	I_y : 0.22 I_z : 0.88	i_y : 0.55 i_z : 1.10
27/25/1.25	W_y : 0.59 W_z : 0.96	I_y : 0.80 I_z : 1.29	i_y : 0.90 i_z : 1.15
27/37/1.25	W_y : 1.08 W_z : 1.33	I_y : 2.15 I_z : 1.79	i_y : 1.29 i_z : 1.18

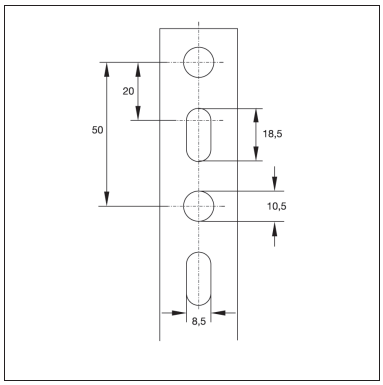
Type B/H/s [mm]	Cross section A [cm^2]	Distance e [cm]	Max. point carrying capacity F_{max} (traction) [kN]	perm. torsional moment Mq [Nm]
27/15/1.25	0.73	0.84	1.5	10
27/25/1.25	0.98	1.36	1.5	10
27/37/1.25	1.28	1.98	1.5	10

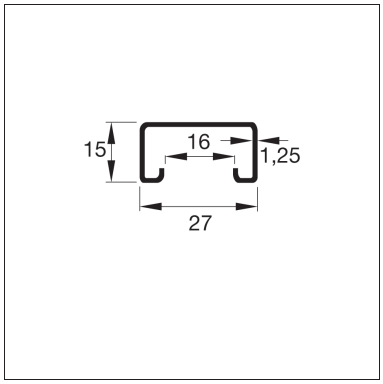
Note: All values refer to slotted channels.

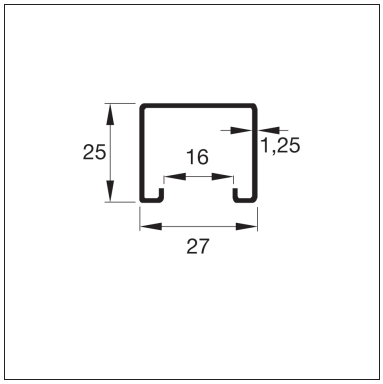
Approvals

This product has obtained the "RAL Gütezeichen Rohrbefestigung" and is subject to external surveillance according to RAL GZ-655.

Type	Length [m]	Weight [kg/m]	Qty. [m]	Part number
27/15/1.25	2	0.59	20	**110856**
27/15/1.25	3	0.59	3	**112885**
27/25/1.25	2	0.78	20	**110857**
27/25/1.25	3	0.78	3	**112886**
27/25/1.25	6	0.78	36	**110858**
27/37/1.25	2	1.07	20	**110569**
27/37/1.25	6	1.07	24	**110570**



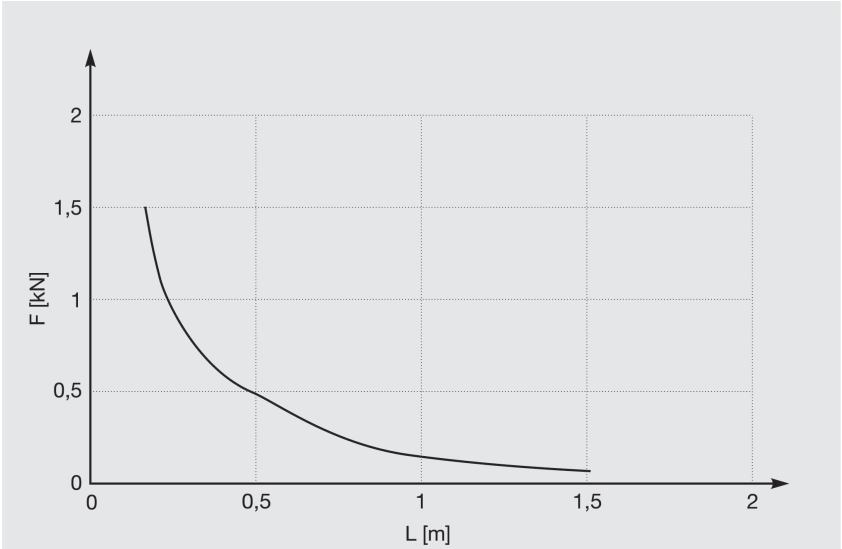




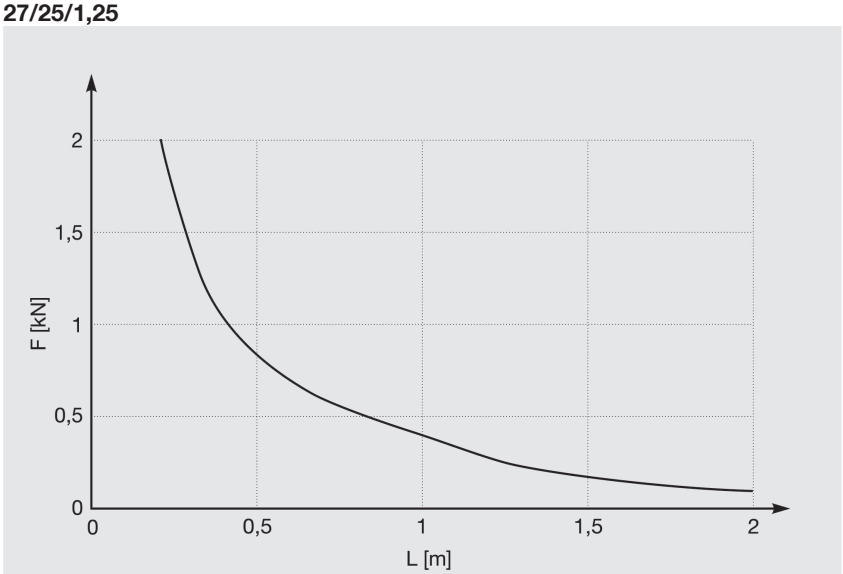
Channel MS 27 - 1,25

Group: 2711

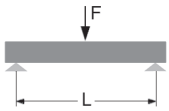
27/15/1,25



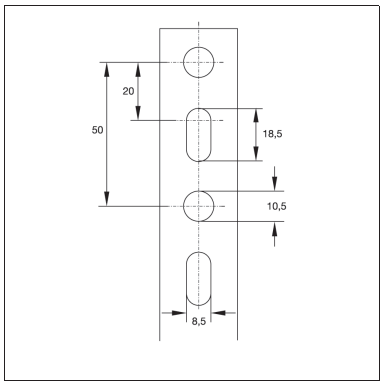
27/25/1,25

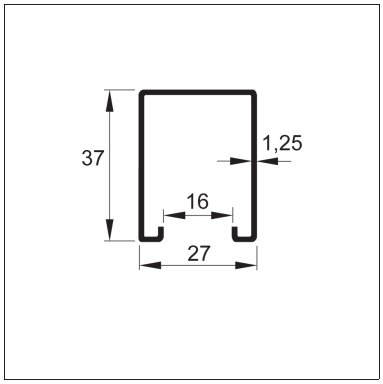


The influence of the channel slots and the channel's dead weight are taken into account in the values.

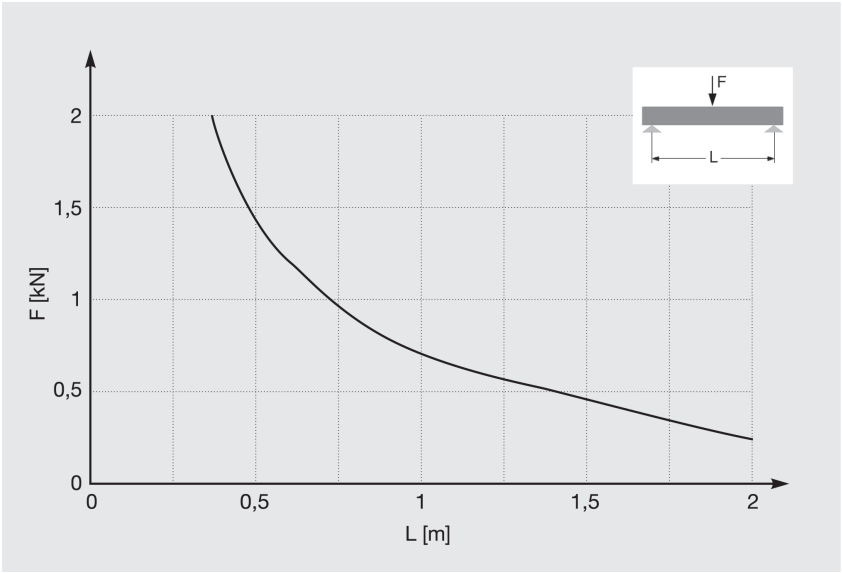


$\sigma_{perm} \leq 160$ N/mm^2
$f \leq L/200$

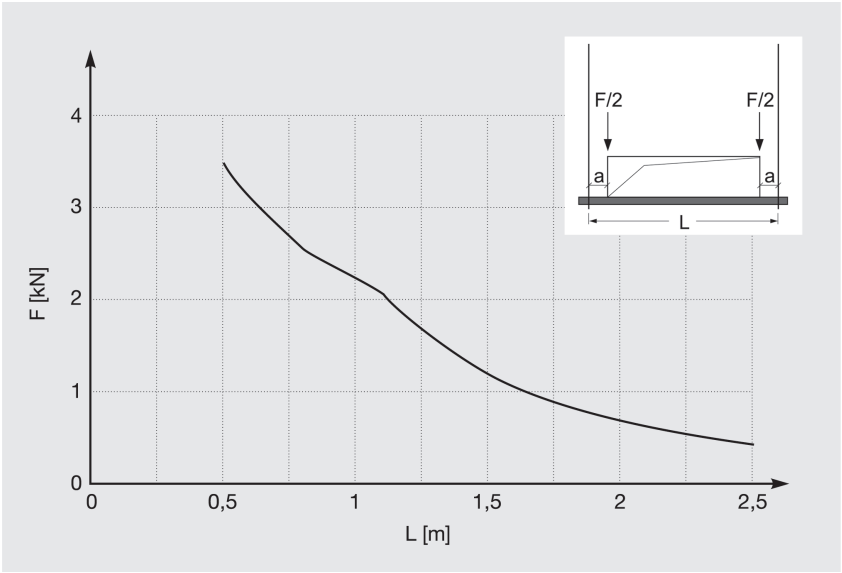




Channel MS 27/37

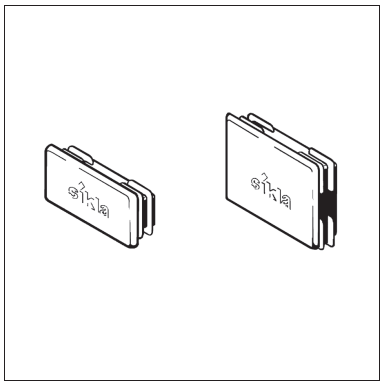


$\sigma_{perm} \leq 160$ N/mm²
$f \leq L/200$



The influence of the channel slots and the channel's dead weight are taken into account in the values.

$\sigma_{perm} \leq 160$ N/mm²
$f \leq L/200$
$a \leq 50$ mm



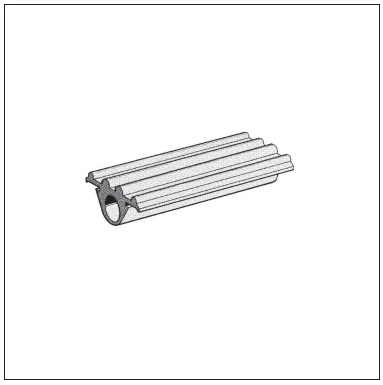
End cap ADK 27

Group: 2704

Application
To be used for safe and neat covering the ends of Sikla Channels MS 27.

Technical Data
Material: HD-PE, yellow

Type	W [kg]	Quantity [pack]	Part number
27/15	0.01	100	**193969**
27/25	0.01	100	**111463**
27/27	0.01	100	**193976**
27/37	0.01	100	**110571**



Channel Lining SAL 27

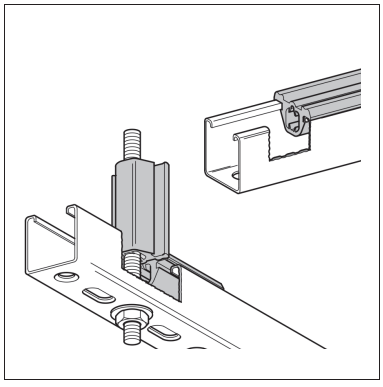
Group: 2710

Application
Sound absorption lining for inserting into Sikla Channels MS 27 or fitting around threaded rods; mainly for use in ducting systems, also for sound proof installations as per DIN 4109.

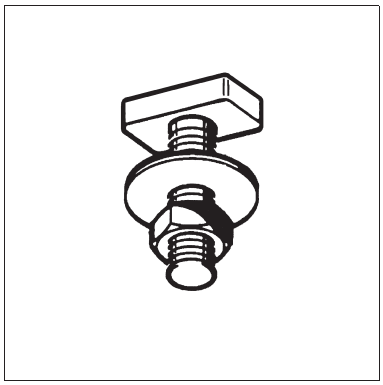
Scope of delivery
Rolls of 30 m or pieces of 100 mm each.

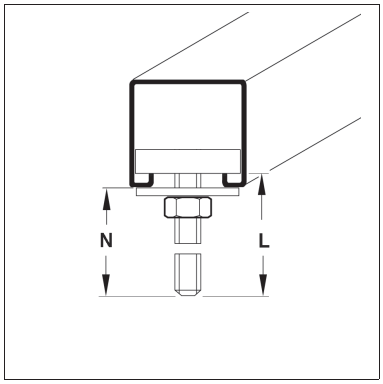
Technical Data

Material:	SBR/EPDM, black
Temperature range:	-50°C up to +110°C
Fire resistance:	B2 according to DIN 4102, non-dripping
Hardness:	50°+/-5° Shore



Type	Thread connection	Length of piece [mm]	Roll [m]	W [kg]	Quantity [pack]	Part number
27	M8/M10	-	30	6.00	1 Rolle	**195963**
27/L100	M8/M10	100	-	0.01	100	**195970**





T-Head Bolt HM 27

Group: 2715

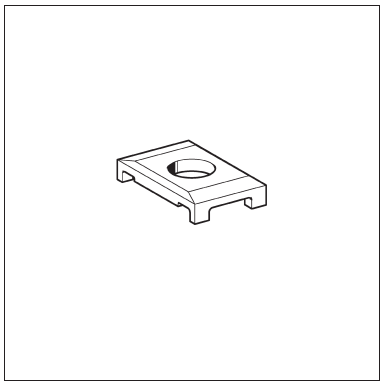
Application
Suitable for Sikla Channels MS 27.

Scope of delivery
Pre-assembled with washer and nut.

> When using a Holding Bracket for type HM 27 M10, the washer is not needed.

Technical Data
Material: Steel, cold-forged, electro-galvanised

Type	Length L [mm]	Available length of thread [mm]	W [kg]	Quantity [pack]	Part number
HM 27 M8 x 10/14	15	10	0.02	50	**106467**
HM 27 M8 x 15/14	20	15	0.03	50	**106476**
HM 27 M8 x 25/14	30	25	0.03	50	**106485**
HM 27 M10 x 15/14	20	15	0.03	50	**106494**
HM 27 M10 x 25/14	30	25	0.04	50	**106500**



Holding Bracket HK 27

Group: 1327

Application

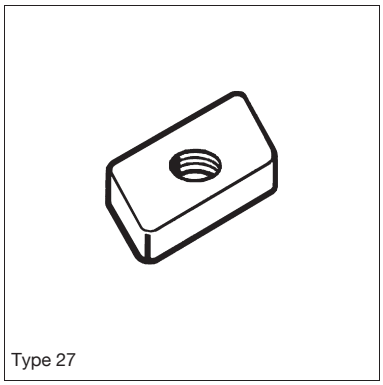
Safety element for Sikla channels to be used instead of simple washers. The Holding Bracket prevents the edges along the opening of the channels from bending, and ensures optimum load distribution. When loads are imposed along the channels, Holding Brackets HK 27 provide additional safety due to embossed teeth, which penetrate the channel.

Suitable for Channels MS 27.

Technical Data

Material: Malleable iron, electro-galvanised

Type	Bore [mm]	W [kg]	Quantity [pack]	Part number
27/10	11	0.02	50	**114422**



Type 27

Channel Nut NT 27

Group: 1314

Application

Channel Nuts type 27 are suitable for channels of 27 mm width.

Technical Data

Material: Malleable cast iron, electro-galvanised

Type	Load capacity (tension) [kN]	W [kg]	Quantity [pack]	Part number
27-M6	1.7	0.01	100	**174188**
27-M8	1.7	0.01	100	**124382**
27-M10	1.7	0.01	100	**181577**

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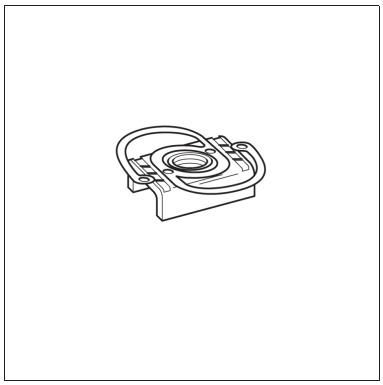


Speed Nut NT CC 27

Group: 2714

Application

In particular useful for installation in vertical channels or where access is difficult.

Further advantages:

- Can be used in all Sikla Channels MS 27, independent of the channel's height.
- No getting stuck on bolt heads when sliding in the channel.
- No appearance of settlement after tightening.

Scope of delivery

Channel Nut and Spring are tightely connected.

Installation

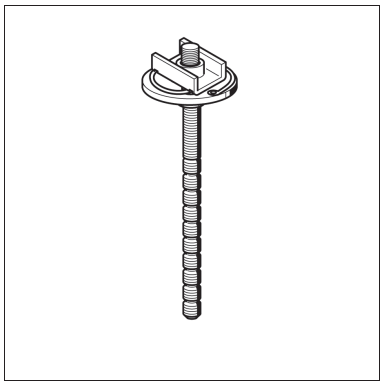
After inserting the Speed Nut into the channel opening, exert a slight axial pressure. This will cause the nut to turn to the right and engage into the channel. De-installation simply requires the nut to be turned to the left and pulled free. Installation and de-installation do not require tools and may be repeated several times.

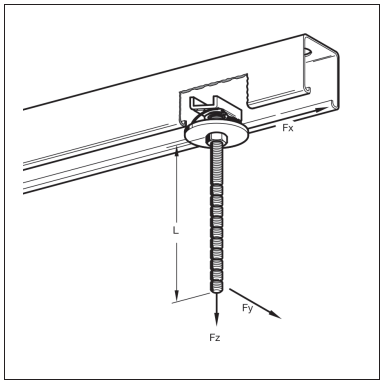
Tighten the part to be connected - that's it!

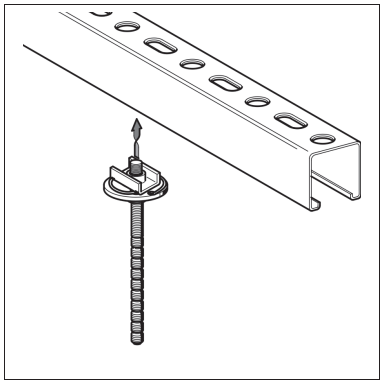
Technical Data

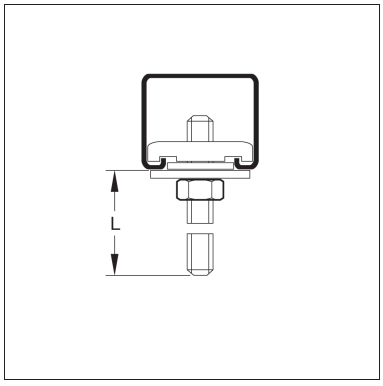
Fz =	1.5 kN
Material:	
Channel nut:	Steel, class 5.6, electro-galvanised
Spring washer:	Sheet metal spring steel, rustproof

Type	W [kg]	Quantity [pack]	Part number
CC 27-M6	0.01	100	**195956**
CC 27-M8	0.01	100	**195949**









Blockset PBS CC 27

Group: 2761

Application

Quick-installation element for efficient mounting of pipe clamps and other components to Channels MS 27.

- Time-saving due to a pre-assembled Blockset consisting of 4 individual parts.
- Easy height adjustment within the channel.
- Retains position in horizontal and vertical channels during locational adjustment. But still can be moved easily and freely along the channel as required.
- Grooved rod, prevents unintended unscrewing.
- Easy cutting of the grooved rod - cutting grooves every 10 mm using Rod Cutter PBC 1.

Scope of delivery

Completely pre-assembled (block with holding bracket, grooved rod and nut).

Installation

Insert the Blockset into the channel, then tighten the nut to 10 Nm - That's it!

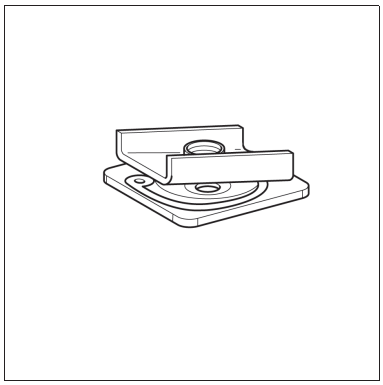
Technical Data

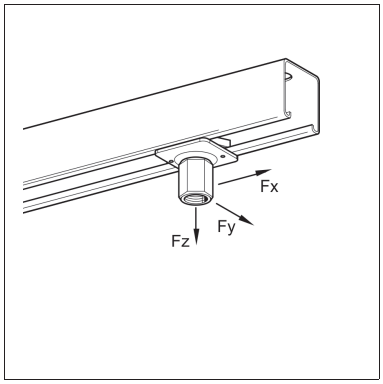
Fz = 1,5 kN
Fx = 0,8 kN
Fy = Permissible lateral force at the end of the grooved rod

Material: Steel, electro-galvanised

Type	L [mm]	Fy [N]	W [kg]	Quantity [pack]	Part number
M8 x 35	35	75	0.03	100	**195888**
M8 x 75	75	35	0.05	100	**195895**
M8 x 125	125	20	0.06	50	**195901**
M8 x 175	175	-	0.08	50	**195918**
M8 x 275	275	-	0.11	50	**195925**

03/2015





Block PB 27

Group: 2760

Application

Quick-installation element for efficient mounting of pipe clamps and other components to Sikla Channels MS 27:

- Time-saving due to pre-assembled Block instead of 2 individual parts.
- Retains position in horizontal and vertical channels during locational adjustment. But can still be moved easily and freely along the channel as required.
- To be combined with Pressix Rods PNS, threaded rods, screws or other products with a thread connection.

Scope of delivery

Block completely pre-assembled.

Installation

Insert the Block into the channel; by turning to the right, the channel nut locks into the channel, then tighten up to 10 Nm - That's it!

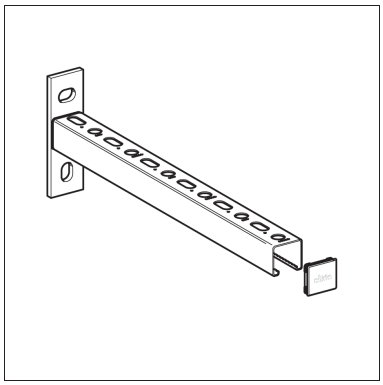
Note:
Thread connection M10 practicable by using Reducer f/m 10/8 (article no. 113689)

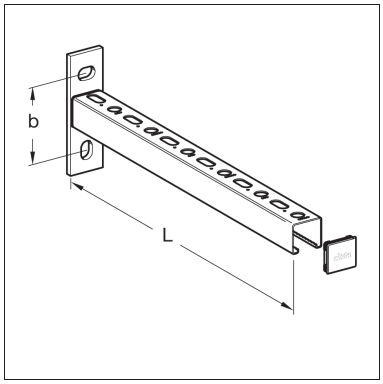
Technical Data

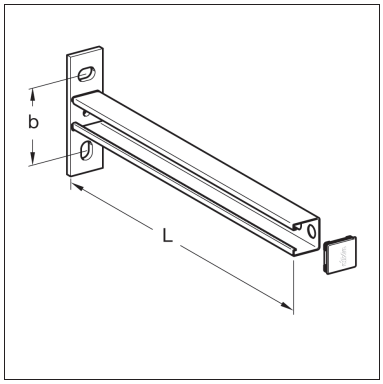
Fz = 1.5 kN
Fx = 0.8 kN

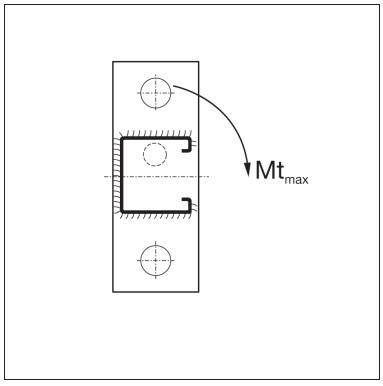
Material: Steel, electro-galvanised

Type	W [kg]	Quantity [pack]	Part number
M8	0.01	100	**195932**









Cantilever Bracket AK 27 - 1,25

Group: 2754

Application

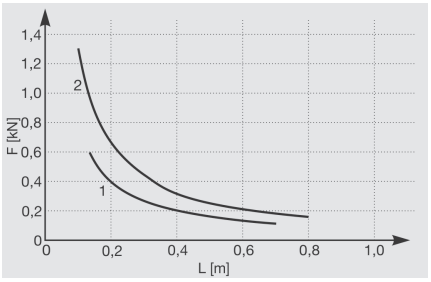
Recommended for wall suspension or fixing to other building structures.

Installation

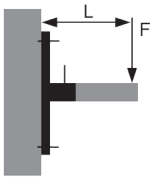
For cantilever projections in excess of 500mm we recommend a vertical brace and for lateral forces on the cantilever, use a lateral brace connected via Fixing Bracket MW S 45/30/90

Technical Data

1 = Type 27/25
2 = Type 27/37



Perm. anchor laods to be considered
$\sigma_{act.} \leq \sigma_{adm.}$
$f_{adm.} \leq L/150$
Max. torsional moment Mt_{max} without considering the torsional angle
Mt_{max} = 20 Nm



Material: Steel, electro-galvanised

Type	L [mm]	b [mm]	Dimensions of elongated hole [mm]	W [kg]	Quantity [pack]	Part number
27/25 - 200	203	64	10 x 15	0.25	25	**112326**
27/25 - 250	253	64	10 x 15	0.29	25	**112327**
27/25 - 300	303	64	10 x 15	0.34	25	**112328**
27/25 - 500	503	64	10 x 15	0.49	25	**112329**
27/25 - 700	703	64	10 x 15	0.65	1	**112330**
27/25 q - 300	303	64	10 x 15	0.34	25	**112366**
27/37 - 300	304	64	10 x 15	0.43	25	**111458**
27/37 - 500	504	64	10 x 15	0.64	25	**111459**
27/37 - 700	704	64	10 x 15	0.84	1	**111460**
27/37 - 800	804	64	10 x 15	0.96	1	**111461**

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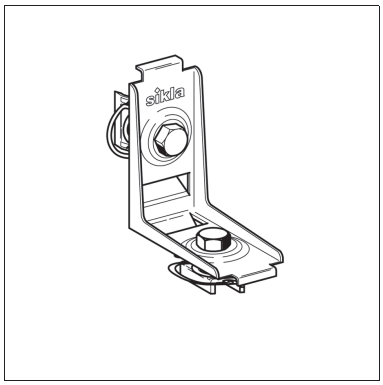
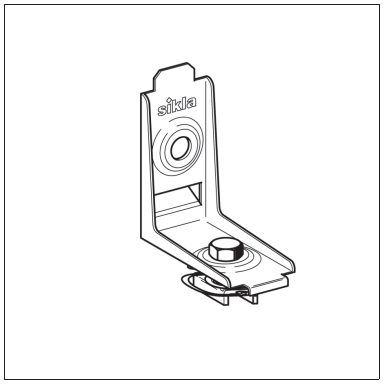




90° Angle Connector CN CC 27

Group: 2726

Application

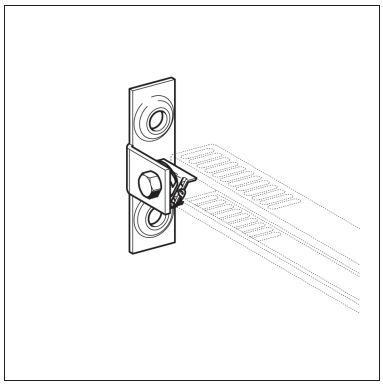
Pre-assembled connecting angle especially for frames made of Channels MS 27. Type W for connection to wall, floor or ceiling.

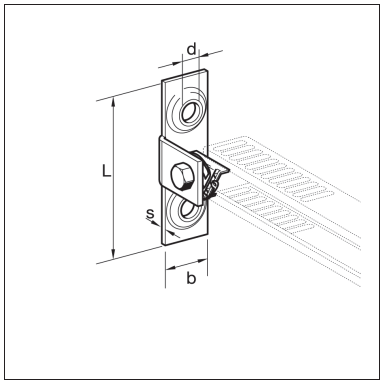
- Quick-locking mechanism for 90° junction of CC-27 system.
- By pressing on the bolt head the connector automatically locks into the channel, supporting its own weight and retaining its position, enabling easy adjustment.
- Secure form-locked connection. Serrated channel nut with M8 clamping bolt. Stiff and strong due to high-performance steel and geometric design.

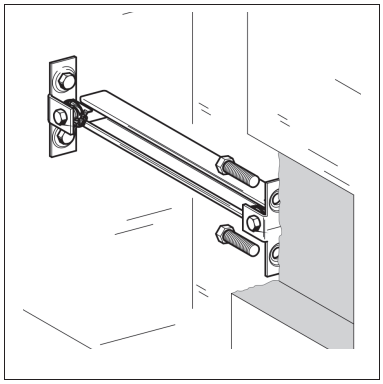
Technical Data

Working load:	Fx_{shear} = 0,8 kN per Angle Connector
Tightening torque:	10 Nm
Material:	Steel, electro-galvanised

Type	W [kg]	Quantity [pack]	Part number
CC 27-90°	0.09	50	**195772**
CC 27-90° W	0.07	50	**195789**







T Bracket MOS 27

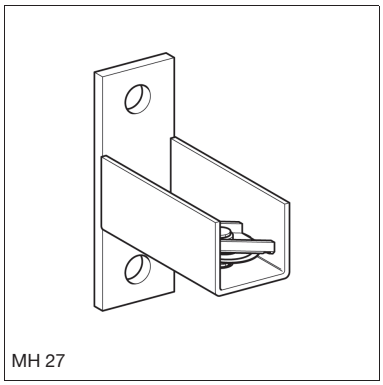
Group: 2730

Application
Used for installing crossbars between Channels MS 27 or building structures.
Note: Each crossbar requires two T Brackets.

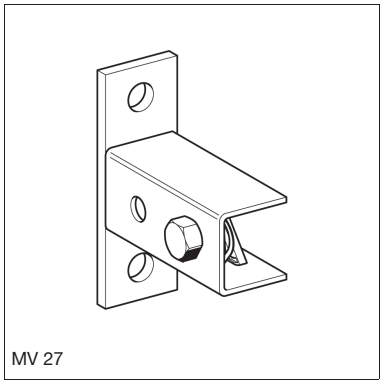
Scope of delivery
Pre-assembled with Holding Bracket and Hexagon Bolt.

Technical Data
Material: Steel, electro-galvanised

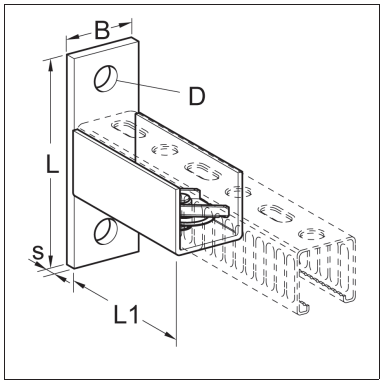
Type	b x s [mm]	L [mm]	d [mm]	W [kg]	Quantity [pack]	Part number
MV 27	26 x 3	88	10.5	0.08	10	**195871**

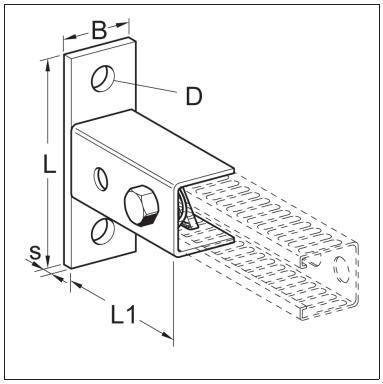


MH 27



MV 27





Channel Holder MOF 27

Group: 2753

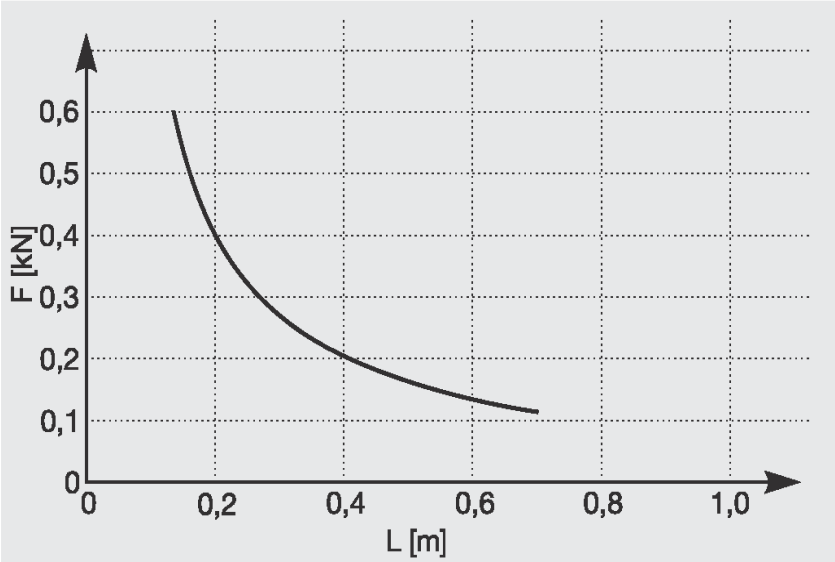
Application
To be used for installing crossbars between two Channels MS 27 or as base unit for projecting channels.

Note: When assembling version MH as cantilever, consider sufficient bracing of the channel. In case of tension load F_z at channel slot, screws must be displaced.

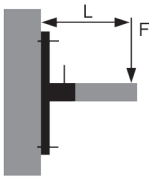
Scope of delivery
Completely assembled.

Installation
Position the channel into the U-profile. Click in the Speed Nut by pushing on the bolt head and tighten with 10 Nm.

Technical Data



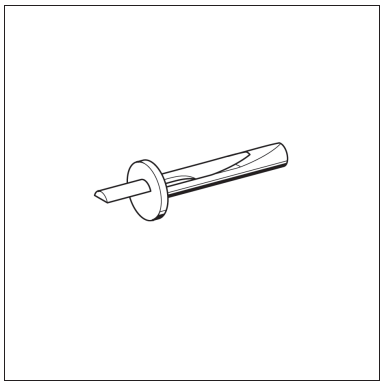
Adm. anchor loads to be respected

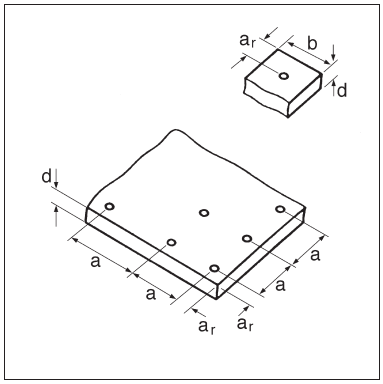


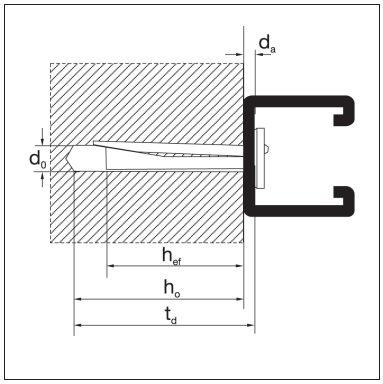
Max. adm. load for assembly on ceilings in vertical direction: 0,8 kN

Material: Steel, electro-galvanised

Type	Wall plate [mm]	D [mm]	L1 [mm]	W [kg]	Quantity [pack]	Part number
MH 27	88 x 30 x 5	9	70	0.20	25	**198858**
MV 27	88 x 30 x 5	9	70	0.20	25	**198865**







Nail Anchor PN 27

Group: 1406

Application

Suitable for push-through mounting solutions for quick and safe fixation to concrete ceilings or walls in closed rooms - not suitable for damp locations.

◆ Easy drilling (6 mm only) and simple impact mounting.

Installation

Setting Tool PN is most suited for mounting purposes.

Technical Data

Permissible load in the tensile zone [kN] for installation solutions in concrete ≥ B25 acc. to approval)	1,1
Centre distance a ≥ [mm]	130
Edge distance a_r ≥ [mm]	100
Minimum thickness of component d [mm]	80
Diameter of drill d_0 [mm]	6
Depth of bore hole h_0 ≥ [mm]	40
Anchoring depth h_{ef} ≥ [mm]	32

Material: Steel, electro-galvanised

Approvals

ETA-Approval: ETA-06/0259

Approved in the tensile zone for multiple mounting solutions to concrete exposed to mainly dead static loading.

Permissile load fire resistance:

30 min. $N_{(30)}$ = 0,45 kN
60 min. $N_{(60)}$ = 0,35 kN
90 min. $N_{(90)}$ = 0,25 kN
120 min. $N_{(120)}$ = 0,20 kN

R30 to R120

Centre distance a ≥ [mm]	200
Edge distance a_r ≥ [mm]	150

Type	Length of dowel [mm]	Max. eff. length d_a [mm]	Bore depth when push-through mount. t_d [mm]	W [kg]	Quantity [pack]	Part number
PN 27 N6 x 35	39	4.5	40	0.01	100	**196298**

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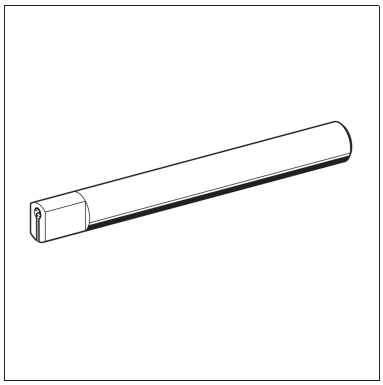


Setting Tool PN

Group: 8103

Application

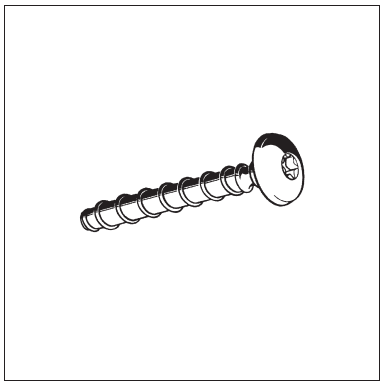
Tool for professional setting of Nail Anchor PN 27 into channel profiles.

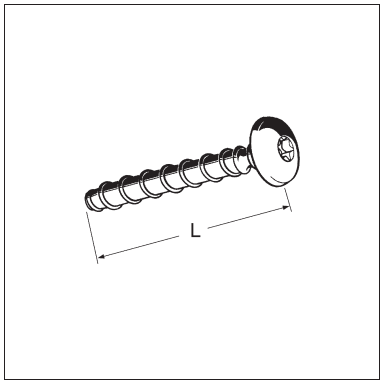
The bore of Setting Tool PN is adapted to the nail's head, allowing easy positioning in the channel profile.

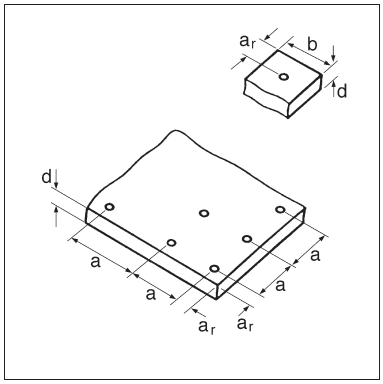
Installation

Set the Nail Anchor with the bore side, then drive the wedge with the opposite side.

Type	W [kg]	Quantity [pack]	Part number
PN	0.56	1	**196595**







Screwbolt MMS-PR

Group: 1405

Application

Suitable for quick and safe installing of Channels MS 27 to concrete ceilings or walls and masonry constructions (of calcareous sandstone, solid bricks, clinker bricks, natural stone). To be applied in closed rooms - not suitable for damp locations.

The nail head diameter is adapted exactly to the hole and hole pattern of the Channels MS 27.

- Easy drilling (6 mm only), no special drill required.
- Small distances due to low expansion pressure.
- Excellent transmission of the torque due to Torx connection.

Installation

An impact screwdriver is best suitable for mounting, using a T30 Torx bit. For subsequently adjusting the component to be connected, unscrew the Bolt Screw Anchor a few millimetres and tighten it again afterwards.

Technical Data

Perm. load (centric tension) in the tension zone for install. [kN] solutions in concrete ≥ B25 (max. B55) acc. to approval	0.5
Permissible load in the pressure zone (concrete ≥ B25) [kN]	2.0
Centre distance a ≥ [mm]	160
Edge distance a_r ≥ [mm]	80
Minimum thickness of component d ≥ **t** + 50 mm ≥ [mm]	105
Nominal diameter of drill [mm]	6
Cutting diameter ≤ [mm]	6.4
Minimum depth of bore hole t ≥ [mm]	55
Minimum setting depth ≥ [mm]	45
Maximum tigthening torque when mounting [Nm]	20

For brick walls respect a distance between the fixations and the joggle joints of the bricks of min. 30 mm, otherwise halve the load!

Material: Steel, case-hardened, tempered steel, electro-galvanised

Approvals

DIBt Approval No.: Z-21.1-1503:
Approved by the DIBt in the concrete tension zone for mounting light overhead facings and sub-ceilings as well as statically comparable installations up to 1 kN/m² exposed to mainly dead loading.
Fire resistance category: F120 (F_{max} = 0.5 kN)

Type	L [mm]	Screw tool	W [kg]	Quantity [pack]	Part number
MMS-PR 7.5 x 50	50	T 30	0.02	100	**157959**

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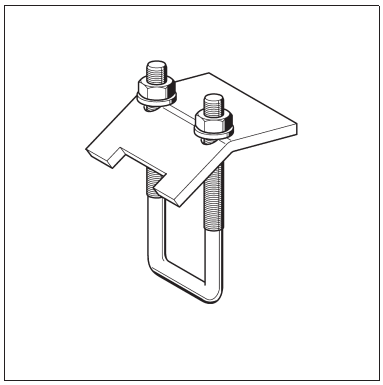


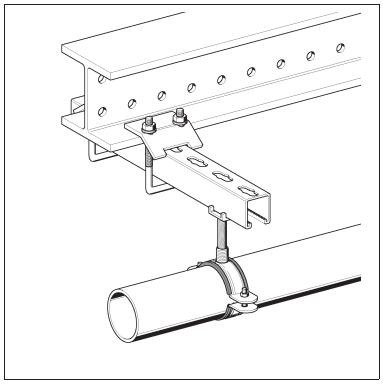
Beam Clamp SB 27

Group: 2731

Application
Connecting element to fix Channel MS 27 to beam- and girder structures. Fixing to the channel regardless the orientation of channel opening or slotted side .

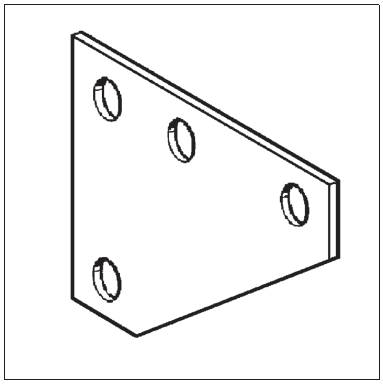
Scope of delivery
Completely pre-assembled with U-Bolt, Bracket and Flange Nut.

Installation
To be used in pairs only.
Tightening torque: 20 Nm
Length calculation = Beam/Girder flange thickness + min. 2 x 50 mm overhang.



Technical Data
Max. perm. load tension: 2.0 kN per Beam Clamp
Material: Steel, electro-galvanised

Type	Max. flange thickness [mm]	Thread	W [kg]	Quantity [pack]	Part number
27 - M8	25	M8	0.29	20	**195864**



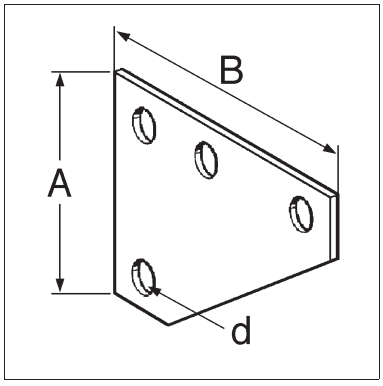
Web Plate KNO

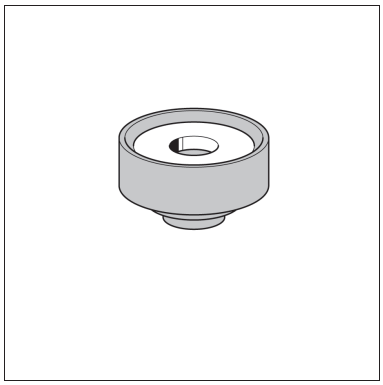
Group: 1351

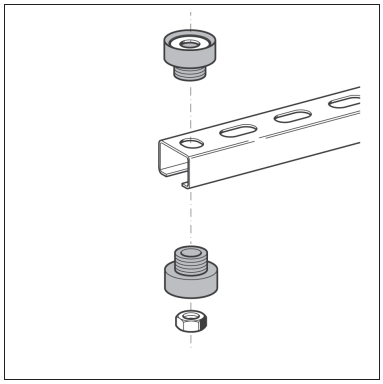
Application
Connecting element for framework structures of Sikla Channels MS 27.

Technical Data
Material: Steel, electro-galvanised

Type	A x B x s [mm]	d [mm]	W [kg]	Quantity [pack]	Part number
KNO 1	80 x 90 x 3	10.5	0.20	10	**107769**







Sound Absorption Unit SDE 27

Group: 2712

Application

Sound Absorption Unit to be used in combination with Sikla Channels MS 27 in ducting systems (respecting sound proof demands according to DIN 4109). The geometry of this element reliably secures sound absorption between channel and suspension.

Scope of delivery

Completely assembled with inserted and retained washer.

Installation

Clamp the Sound Absorption Unit into the round hole of the channel back and into the channel opening. Thread to be pulled through and contered afterwards.

Technical Data

Material:	TPE, black
Temperature range:	-50°C to + 110°C
Fire resistance:	B2 according to DIN 4102, non-dripping
Hardness:	50°+/-5° Shore

Type	Thread connection	Total-Height [mm]	Height of collar [mm]	W [kg]	Quantity [pack]	Part number
27	M8	15	7	0.01	100	**197973**

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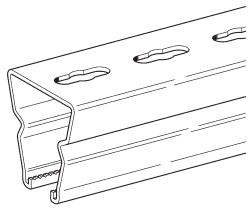
Channel MS 41



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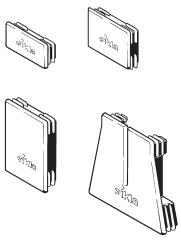
End Cap ADK 41



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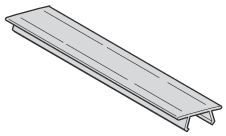
Channel Cover MSA 41



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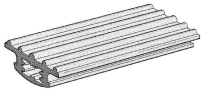
Channel Lining SAL 41



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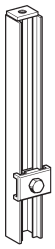
Channel Extension ST 41



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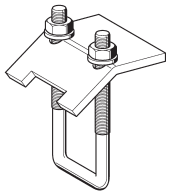
U-Holder SB 41



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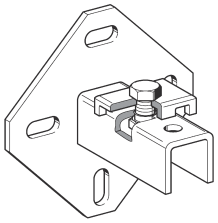
End Support WBD



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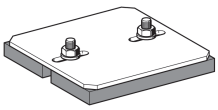
Insulated Foot Plate SHB HCP



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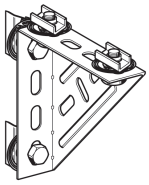
Support Bracket CC



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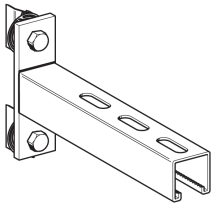
Cantilever Bracket CC



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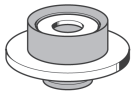
Sound Absorption Element SDE 41



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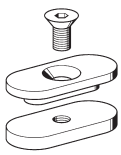
Clamping Unit KL



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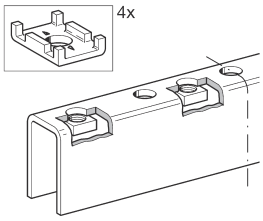
Channel Connector SK



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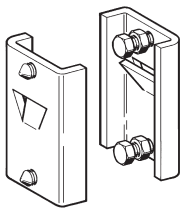
Clamping End SKL



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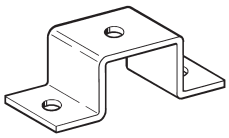
Channel Bracket SH



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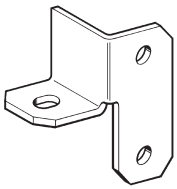
Corner Bracket EW 41



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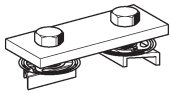
Flat Fitting ECO CC



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T-Bracket MOS

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T-Bracket MOS CC

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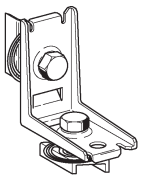
Angle Connector CN CC 41 Stabil



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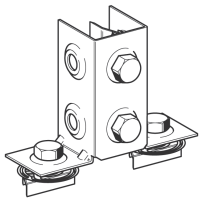
Angle Connector CN CC 41-2



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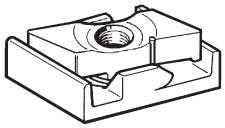
Block PB 41



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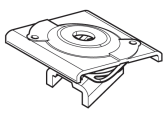
Block PBH 41



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Blockset PBS CC 41

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Rod Cutter PBC

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Cable Bracket KHP

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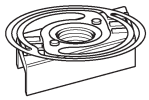
Speed Nut NT CC 41



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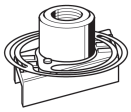
Adapter NT CC 41 DIN 3015



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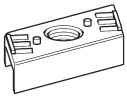
Channel Nut NT 41



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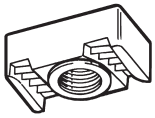
Channel Nut NT HZ 41



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T-Head Bolt TBO HZ 41

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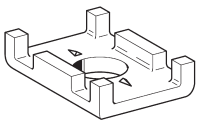
Holding Bracket HK 41



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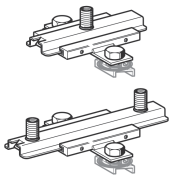
Slide Set GS CC - 2G/1



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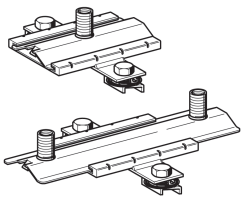
Slide Set GS CC - H3G-PL



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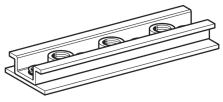
Slide Element GS 41



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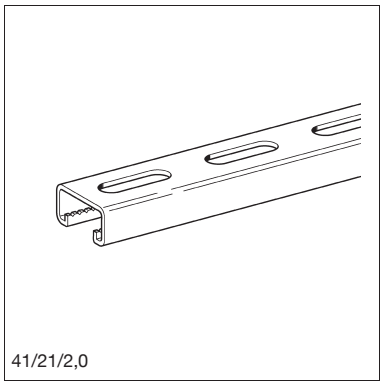
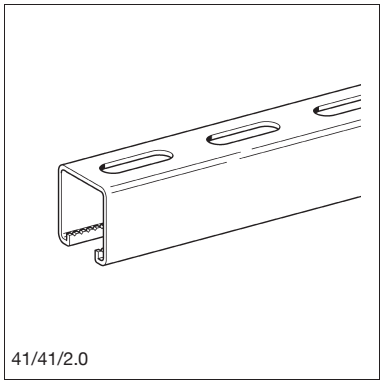
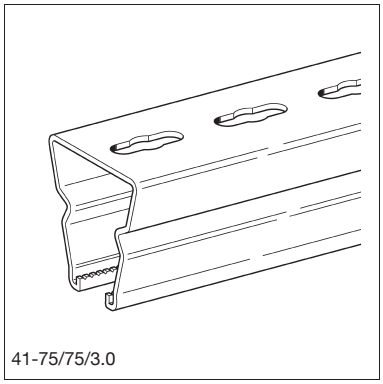


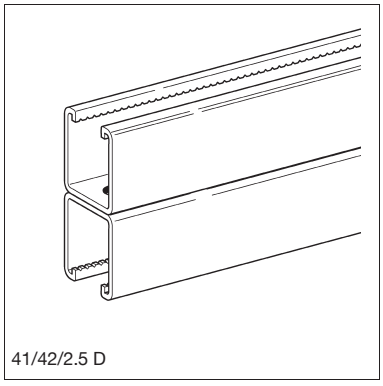
41/21/2,0



41/41/2.0



41-75/75/3.0



41/42/2.5 D

Channel MS 41

Group: 1111

Application
Element for easily and efficiently pre-assembling crossbars, wall brackets and support structures on site or in workshops.

Scope of delivery
Double channels are joined together by clinching, guaranteeing corrosion protection at the joining.

Installation
If required, channels can be joined on site using:
Slot pattern II:
- Hexagon socket bolt M8 x 16, with a max. spacing of 250 mm between connecting points one point at each end.
Slot pattern III and IV:
- Clamping Unit KL (for details see product).

All Channels MS 41 are serrated on the inner edges and thus can be combined with many other Sikla products, e.g. Channel Nut, End Support WBD, Beam Clamp TCS 1. Particularly effective combinations are possible using other Pressix components. All 41-types except of 41/41/2.5 D can be used as guide and support channels by inserting Slide Block 41 inside the channel.

Technical Data
Material: Cold-worked steel strip 1.0305, pre-galvanised according to DIN EN 10346

For further data, please refer to the following pages.

D= Double channel

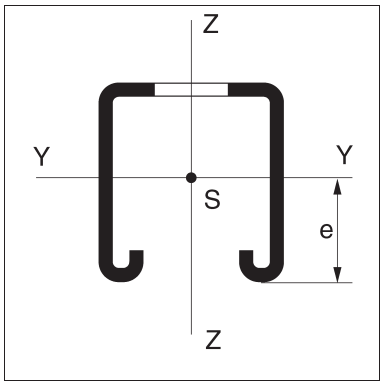
Approvals

This product has been awarded the RAL quality mark "Pipe Supports" and is subject to continuous external monitoring according to RAL GZ-655.

* = no RAL quality label

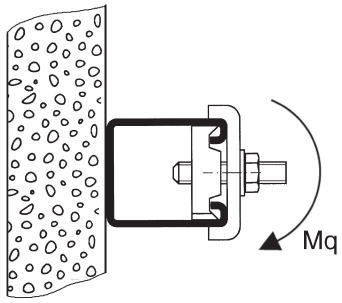
03/2015

Type	Length [m]	Weight [kg/m]	Qty. [m]	Part number
41/21/1.5	2	1.10	10	**173837**
41/21/1.5	6	1.10	6	**173846**
41/21/2.0	2	1.32	10	**193686**
41/21/2.0	3	1.32	3	**193693**
41/21/2.0	6	1.32	6	**193709**
41/31/2.0	2	1.51	10	**198872**
41/31/2.0	6	1.51	6	**198889**
41/41/2.0	2	1.97	10	**193723**
41/41/2.0	3	1.97	3	**193730**
41/41/2.0	6	1.97	6	**193747**
41/41/2.5	2	2.30	10	**173909**
41/41/2.5	3	2.30	3	**173432**
41/41/2.5	6	2.30	6	**166720**
41/45/2.5	2	2.47	10	**193754**
41/45/2.5	6	2.47	6	**193761**
41/52/2.5	2	2.82	10	**193778**
41/52/2.5	6	2.82	6	**193785**
41/62/2.5	6	3.13	6	**193792**
41-75/65/3.0	6	4.70	6	**173990**
41-75/75/3.0	6	5.40	6	**173999**
41/21/2.0 D *	2	2.64	2	**193808**
41/21/2.0 D *	6	2.64	6	**193815**
41/41/2.0 D *	6	3.94	6	**193822**
41/41/2.5 D *	2	4.60	2	**174080**
41/41/2.5 D *	3	4.60	3	**173441**
41/41/2.5 D *	6	4.60	6	**166757**
41/45/2.5 D *	6	4.93	6	**193839**
41/52/2.5 D *	6	5.63	6	**193846**
41/62/2.5 D *	6	6.27	6	**193853**
41-75/65/3.0 D *	6	9.40	6	**174152**
41-75/75/3.0 D *	6	10.80	6	**174161**



Max. point carrying capacity F_{max}

In order to apply the values stated, short sections (up to 0.5 m) of ready supplied (clinched) double channels must be joined additionally on both ends if bearing point and point of application of the load are not located on the same side, using
- Clamping Unit KL 1 (slot pattern III or IV)
- Hex. Socket screws M8 x 16 (slot pattern II).



Max. torsional Moment Mq

Channel MS 41 - Technical Data

Group: 1111

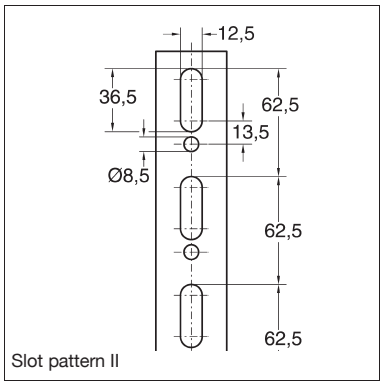
Type W/H/Th [mm]	Section modulus [cm^3]	Moment of inertia [cm^4]	Radius of gyration [cm]
41/21/1.5	W_y : 0.72 W_z : 1.72	I_y : 0.79 I_z : 3.52	i_y : 0.79 i_z : 1.66
41/21/2.0	W_y : 0.82 W_z : 2.12	I_y : 0.92 I_z : 4.35	i_y : 0.76 i_z : 1.65
41/31/2.0	W_y : 1.60 W_z : 2.88	I_y : 2.77 I_z : 5.90	i_y : 1.13 i_z : 1.65
41/41/2.0	W_y : 2.43 W_z : 3.65	I_y : 5.16 I_z : 7.48	i_y : 1.46 i_z : 1.75
41/41/2.5	W_y : 2.96 W_z : 4.41	I_y : 6.19 I_z : 9.05	i_y : 1.43 i_z : 1.72
41/45/2.5	W_y : 3.29 W_z : 4.73	I_y : 7.70 I_z : 9.70	i_y : 1.56 i_z : 1.75
41/52/2.5	W_y : 4.16 W_z : 5.37	I_y : 11.20 I_z : 11.00	i_y : 1.79 i_z : 1.77
41/62/2.5	W_y : 5.54 W_z : 6.27	I_y : 17.70 I_z : 12.86	i_y : 2.10 i_z : 1.79
41-75/65/3.0	W_y : 8.46 W_z : 10.39	I_y : 31.60 I_z : 39.23	i_y : 2.27 i_z : 2.53
41-75/75/3.0	W_y : 10.31 W_z : 11.59	I_y : 44.41 I_z : 43.48	i_y : 2.53 i_z : 2.50
41/21/2.0 D	W_y : 2.35 W_z : 4.24	I_y : 4.93 I_z : 8.70	i_y : 1.24 i_z : 1.65
41/41/2.0 D	W_y : 7.16 W_z : 7.30	I_y : 29.34 I_z : 14.96	i_y : 2.45 i_z : 1.75
41/41/2.5 D	W_y : 9.02 W_z : 8.82	I_y : 36.99 I_z : 18.10	i_y : 2.46 i_z : 1.72
41/45/2.5 D	W_y : 9.97 W_z : 9.47	I_y : 44.87 I_z : 19.41	i_y : 2.66 i_z : 1.75
41/52/2.5 D	W_y : 12.79 W_z : 10.73	I_y : 66.50 I_z : 22.00	i_y : 3.08 i_z : 1.77
41/62/2.5 D	W_y : 17.38 W_z : 12.54	I_y : 107.75 I_z : 25.71	i_y : 3.66 i_z : 1.79
41-75/65/3.0 D	W_y : 24.18 W_z : 20.77	I_y : 157.15 I_z : 78.45	i_y : 3.58 i_z : 2.53
41-75/75/3.0 D	W_y : 30.72 W_z : 23.07	I_y : 230.40 I_z : 86.96	i_y : 4.07 i_z : 2.50

Type W/H/Th [mm]	Cross section A [cm^2]	Distance e [cm]	Max. point carrying moment F_{max} (tension) [kN]	Max. torsional moment Mq [Nm]
41/21/1.5	1.28	1.11	2.0	44.5
41/21/2.0	1.61	1.12	4.0	44.5
41/31/2.0	2.17	1.73	4.0	44.5
41/41/2.0	2.43	2.12	4.0	44.5
41/41/2.5	3.05	2.09	6.0	44.5
41/45/2.5	3.16	2.34	6.0	44.5
41/52/2.5	3.51	2.70	6.0	44.5
41/62/2.5	4.01	3.20	6.0	44.5
41-75/65/3.0	6.15	3.74	10.0	44.5
41-75/75/3.0	6.95	4.31	10.0	44.5
41/21/2.0 D	3.21	2.10	4.0*	44.5
41/41/2.0 D	4.87	4.10	4.0*	44.5
41/41/2.5 D	6.09	4.10	6.0*	44.5
41/45/2.5 D	6.33	4.50	6.0*	44.5
41/52/2.5 D	7.03	5.20	6.0*	44.5
41/62/2.5 D	8.03	6.20	6.0*	44.5
41-75/65/3.0 D	12.29	6.50	10.0*	44.5
41-75/75/3.0 D	13.90	7.50	10.0*	44.5

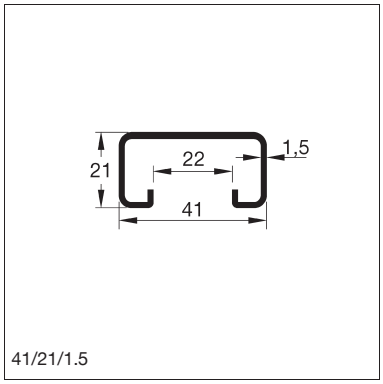
D = Double channel

* Double channels with max. length up to 0,5 m should be connected at both ends, if bearing and point of load incidence are not on the same side:
Slot pattern 2: with Hexagon socket screw M8 x 16
Slot pattern 3 or 4: by means of Clamping Unit KL 1.

All values in both tables refer to slotted channels.



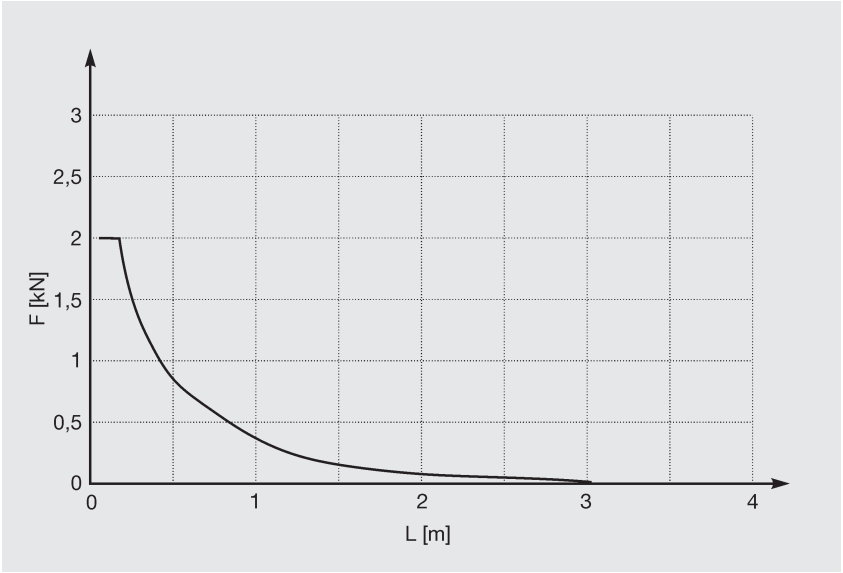
Slot pattern II



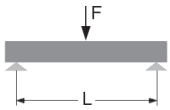
41/21/1.5

Channel MS 41/21/1.5

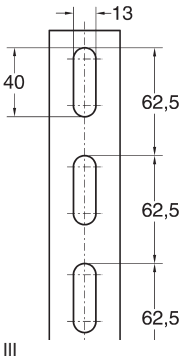
41/21/1.5



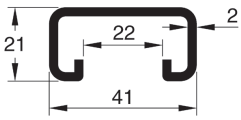
The influence of the channel slots and the channel's dead weight are taken into account in the values.



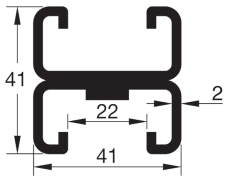
$\sigma_{perm} \leq 160$ N/mm^2
$f \leq L/200$



Slot pattern III



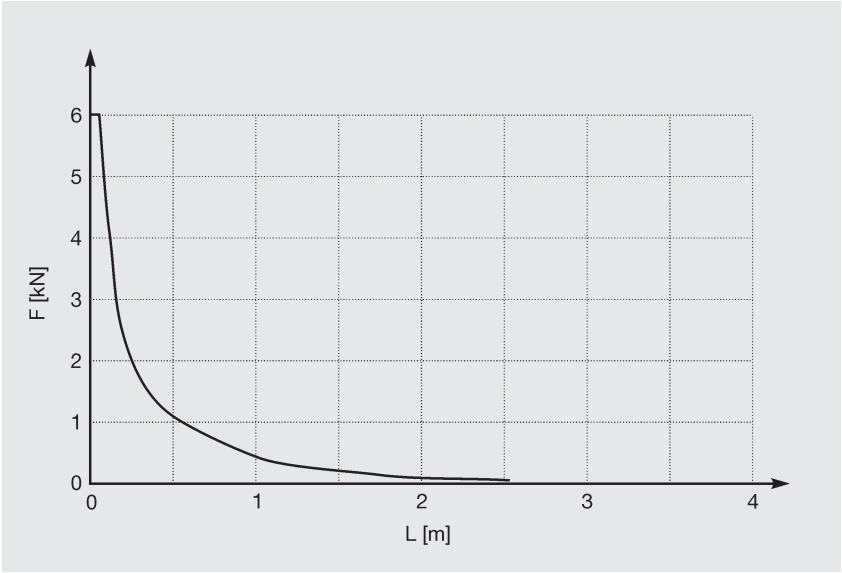
41/21/2.0



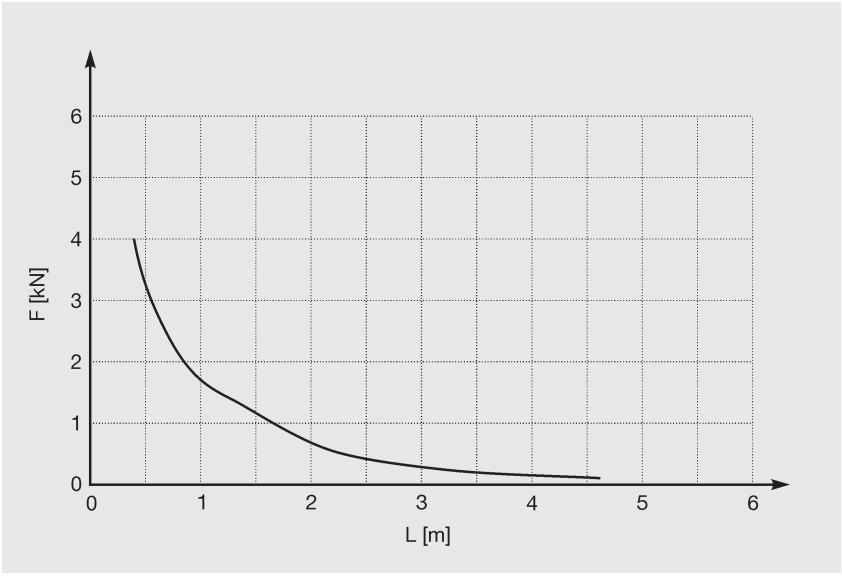
41/21/2.0 D

Channel MS 41/21/2.0

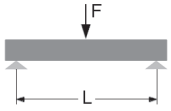
41/21/2.0



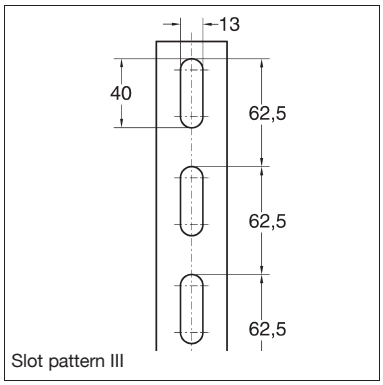
41/21/2.0 D



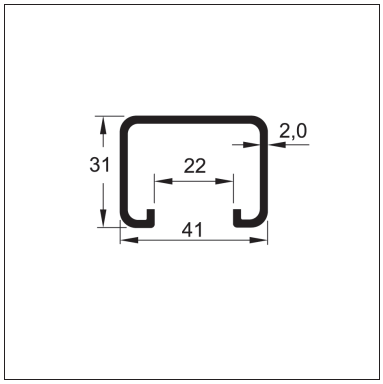
The influence of the channel slots and the channel's dead weight are taken into account in the values.



$\sigma_{perm} \leq 160$ N/mm^2
$f \leq L/200$



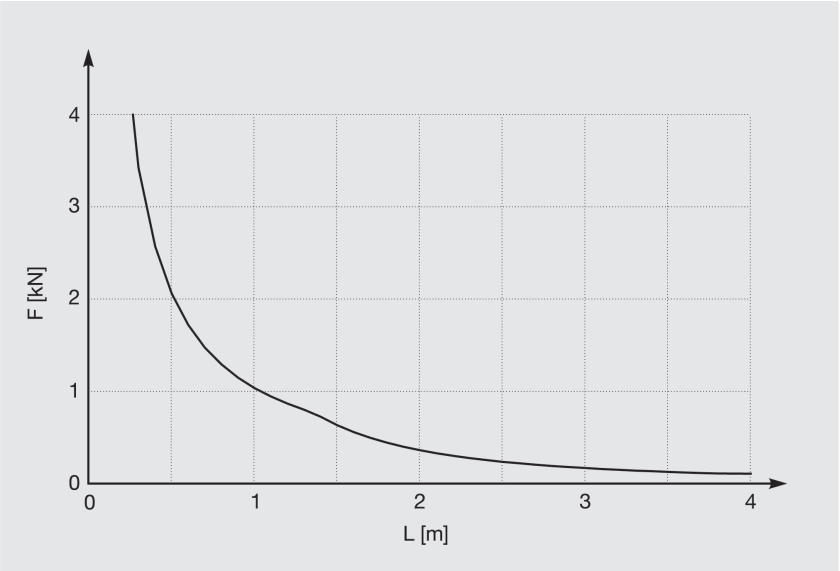
Slot pattern III



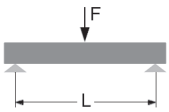
Channel MS 41/31/2.0

Technical Data

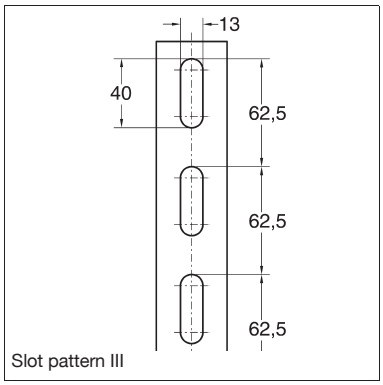
41/31/2.0



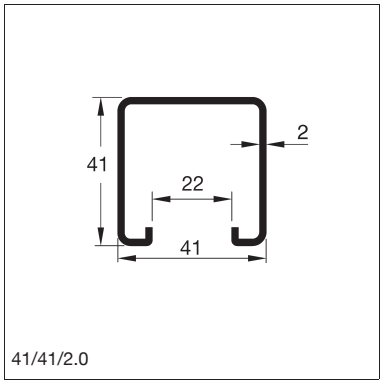
The influence of the channel slots and the channel's dead weight are taken into account in the values.



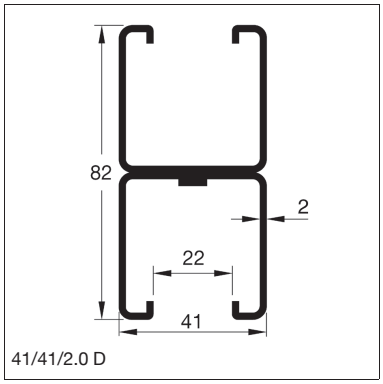
$\sigma_{perm} \leq 160$ N/mm^2
$f \leq L/200$



Slot pattern III



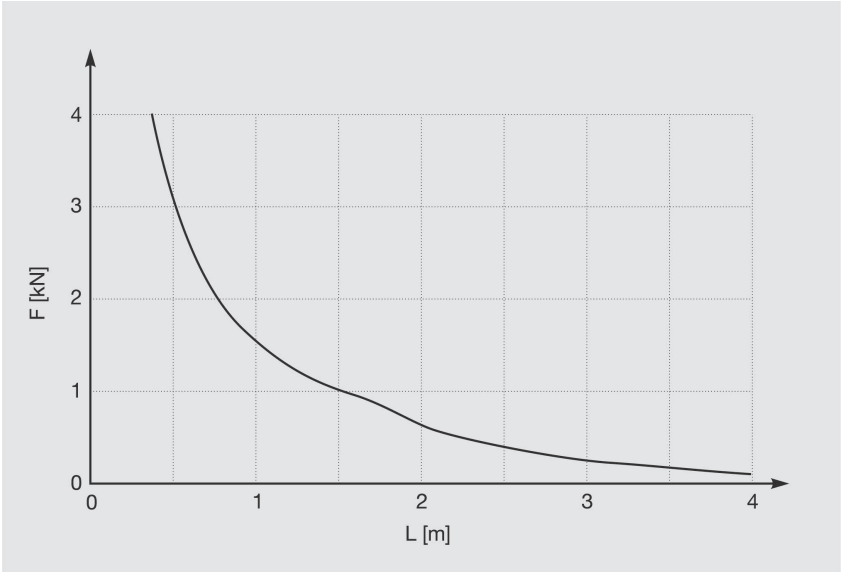
41/41/2.0



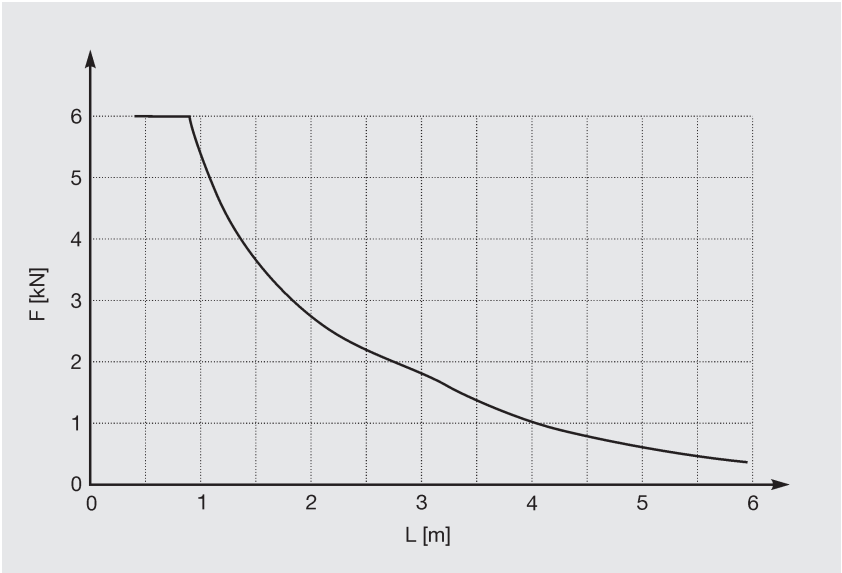
41/41/2.0 D

Channel MS 41/41/2.0

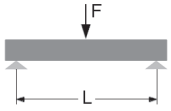
41/41/2.0



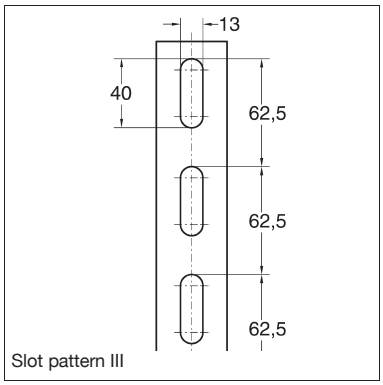
41/41/2.0 D



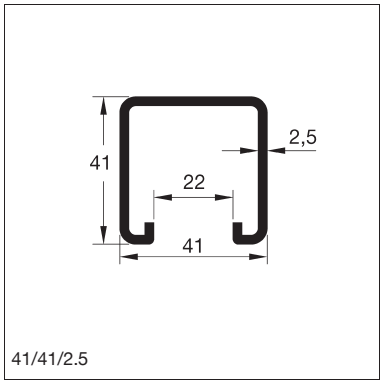
The influence of the channel slots and the channel's dead weight are taken into account in the values.



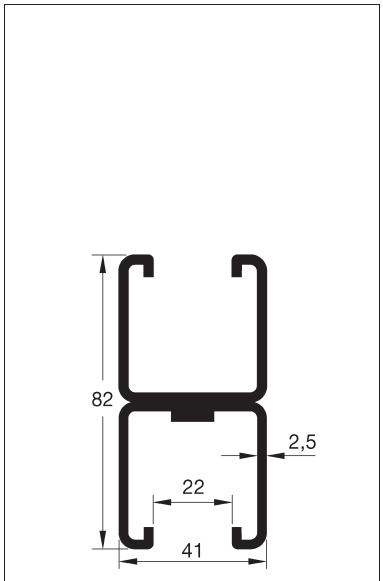
$\sigma_{perm} \leq 160$ N/mm^2
$f \leq L/200$



Slot pattern III



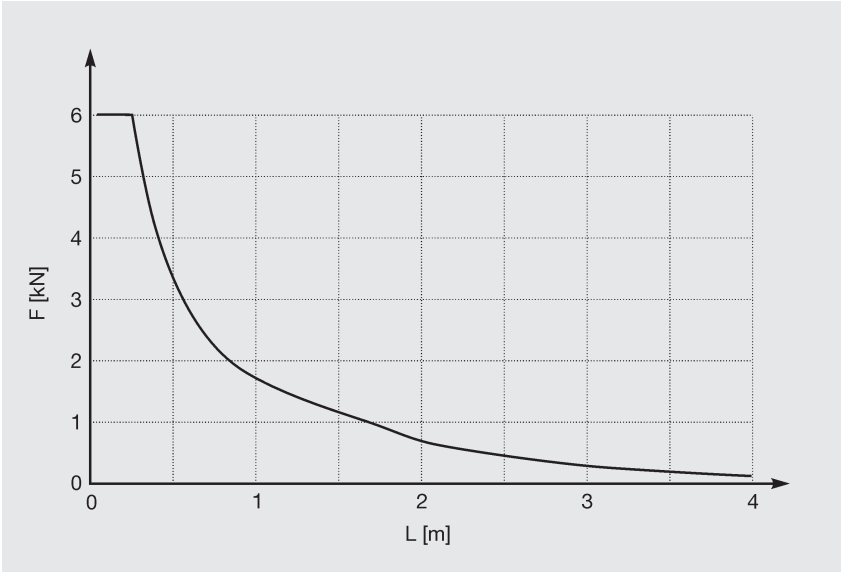
41/41/2.5



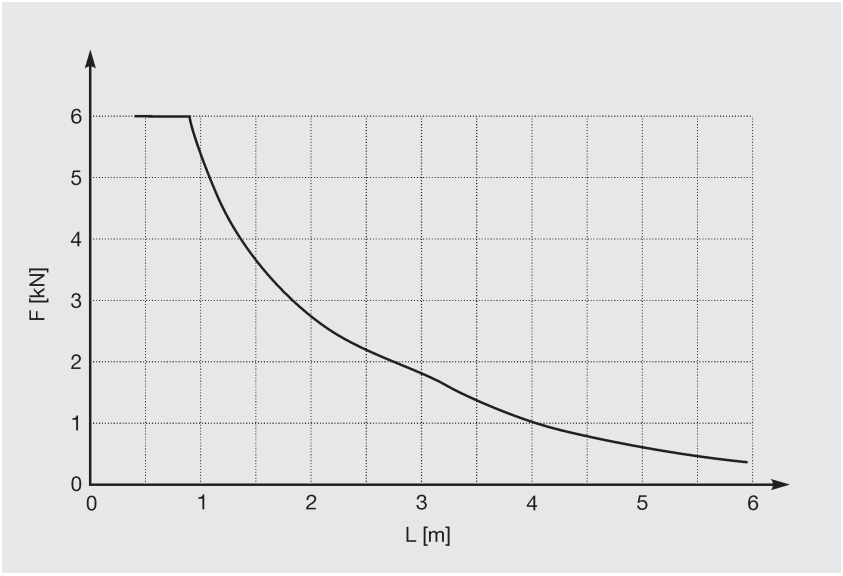
41/41/2.5 D

Channel MS 41/41/2.5

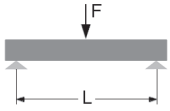
41/41/2.5



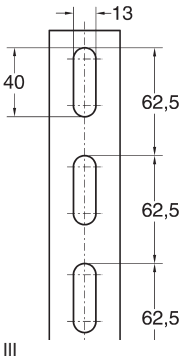
41/41/2.5 D



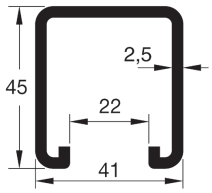
The influence of the channel slots and the channel's dead weight are taken into account in the values.



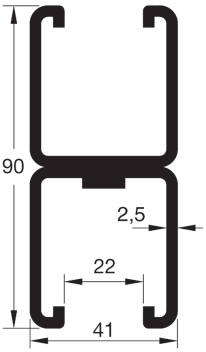
$\sigma_{perm} \leq 160$ N/mm^2
$f \leq L/200$



Slot pattern III



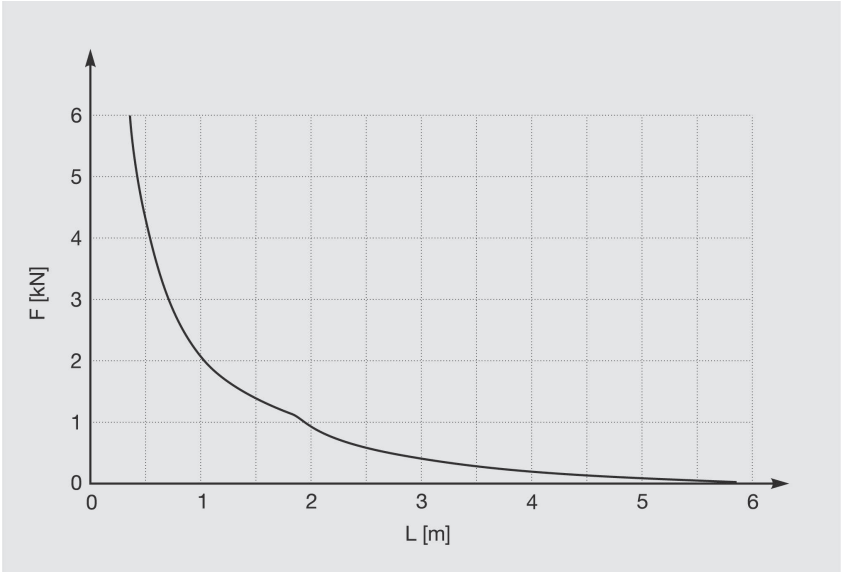
41/45/2.5



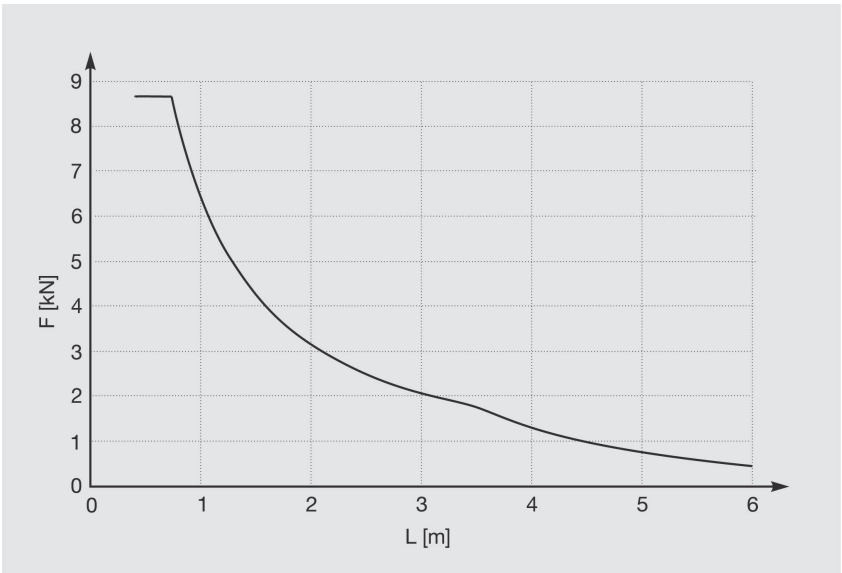
41/45/2.5 D

Channel MS 41/45/2.5

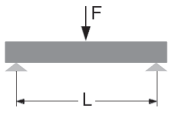
41/45/2.5



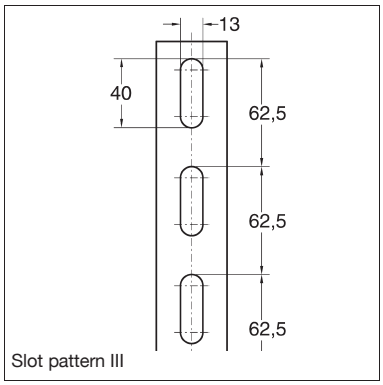
41/45/2.5 D



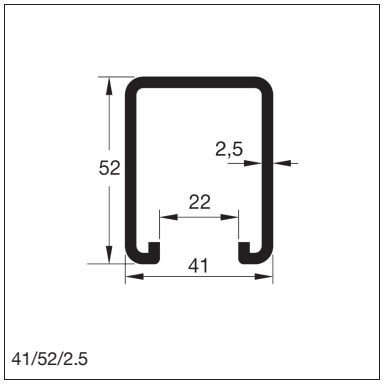
The influence of the channel slots and the channel's dead weight are taken into account in the values.



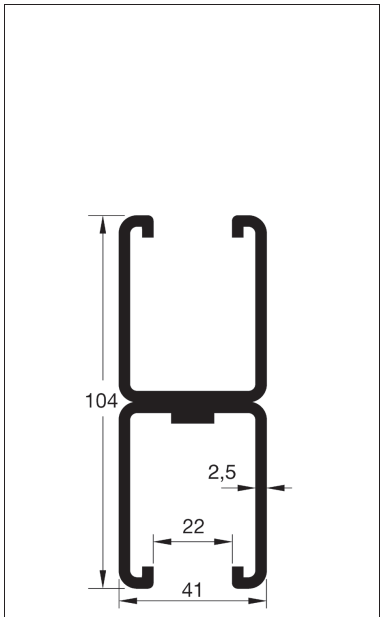
$\sigma_{perm} \leq 160$ N/mm^2
$f \leq L/200$



Slot pattern III



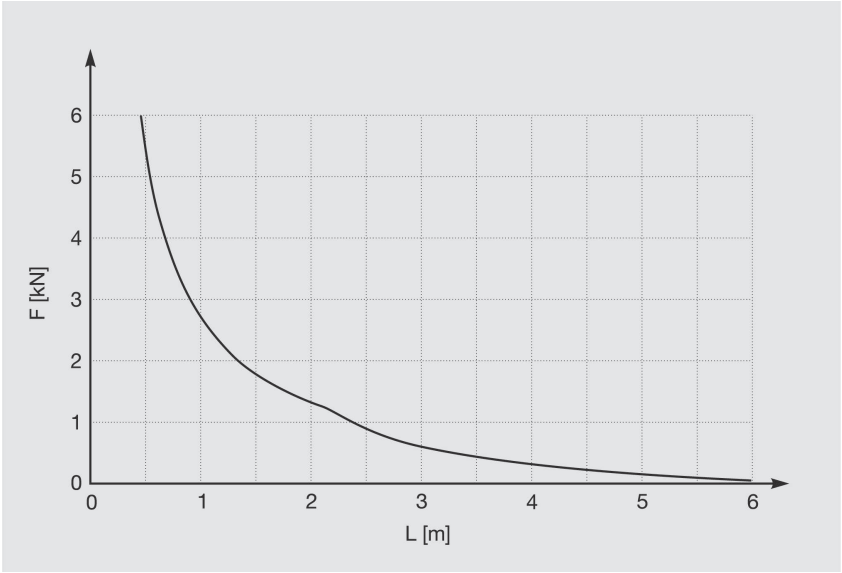
41/52/2.5



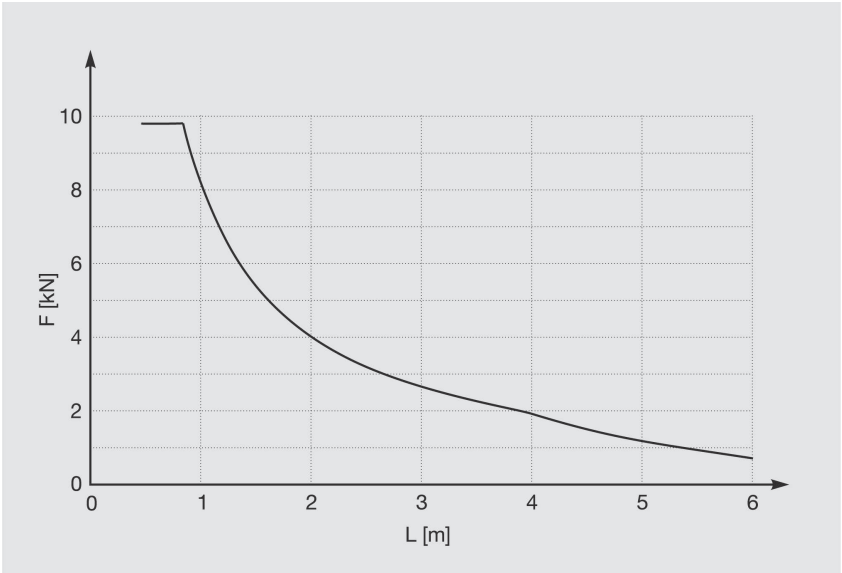
41/52/2.5 D

Channel MS 41/52/2.5

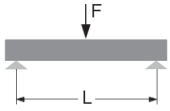
41/52/2.5



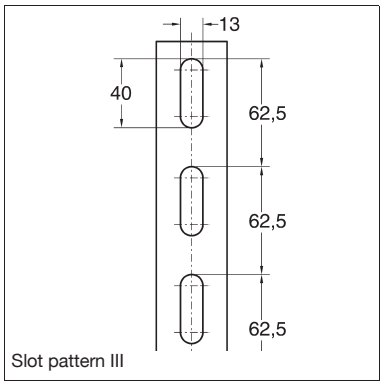
41/52/2.5 D



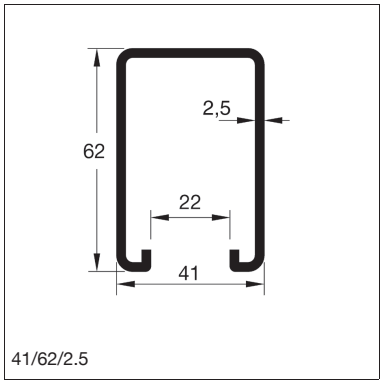
The influence of the channel slots and the channel's dead weight are taken into account in the values.



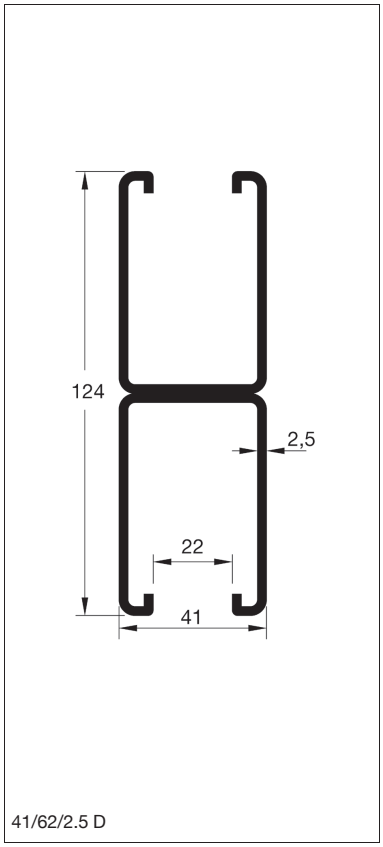
$\sigma_{perm} \leq 160$ N/mm^2
$f \leq L/200$



Slot pattern III



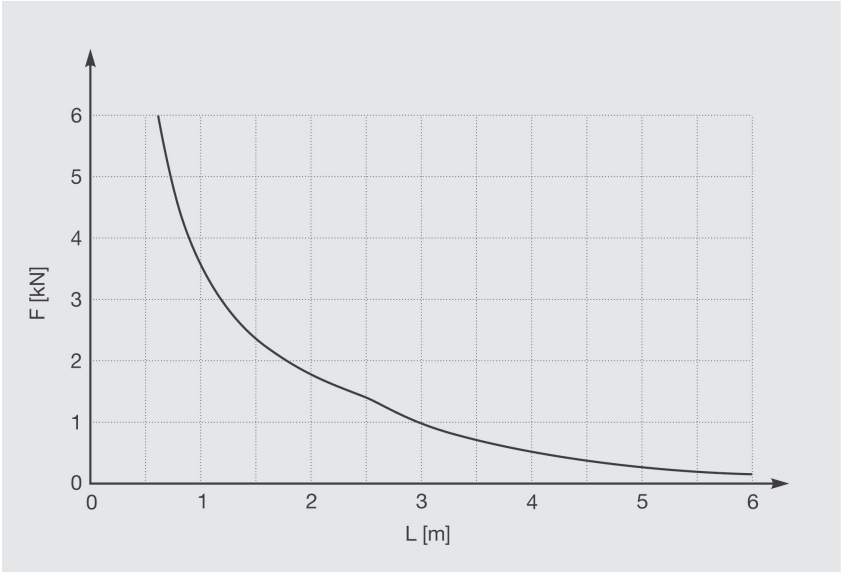
41/62/2.5



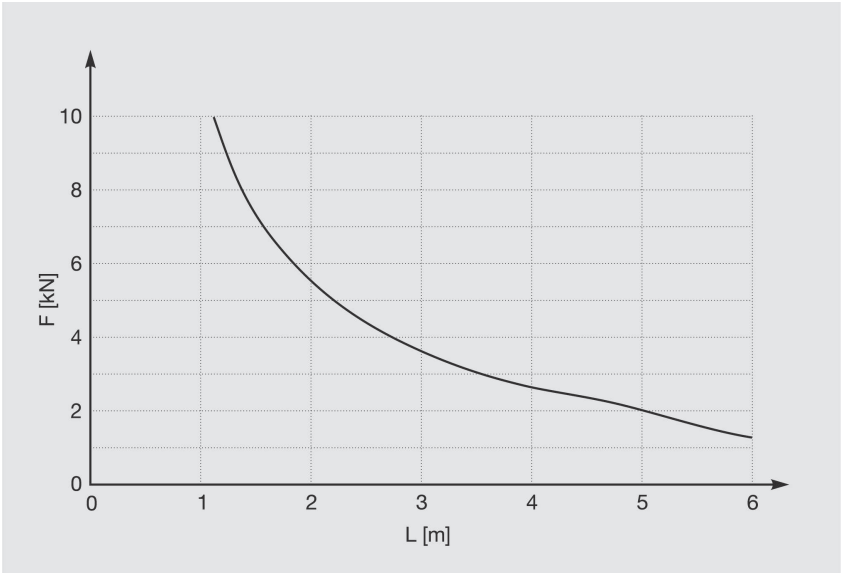
41/62/2.5 D

Channel MS 41/62/2.5

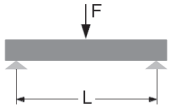
41/62/2.5



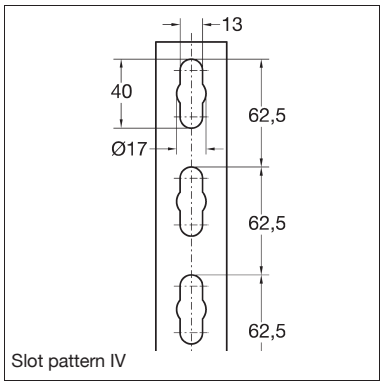
41/62/2.5 D



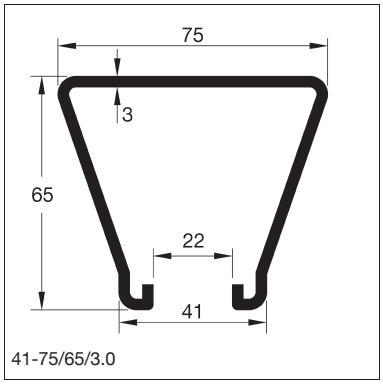
The influence of the channel slots and the channel's dead weight are taken into account in the values.



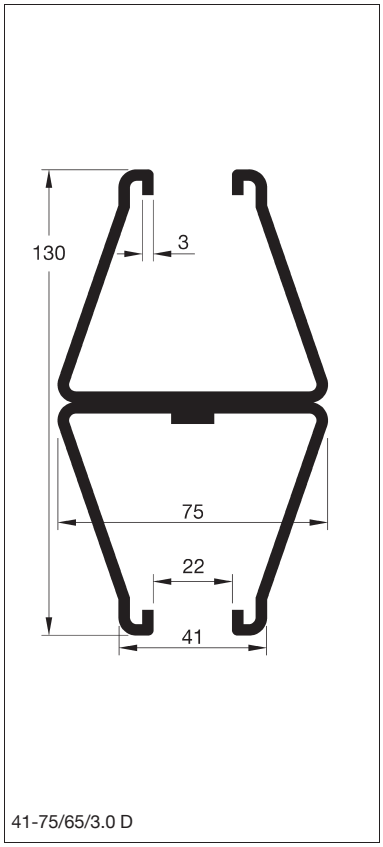
$\sigma_{perm} \leq 160$ N/mm²
$f \leq L/200$



Slot pattern IV



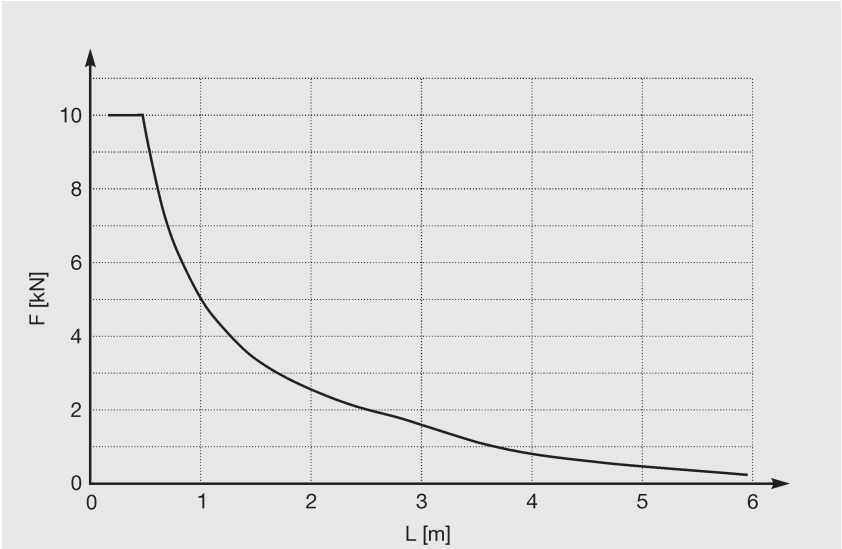
41-75/65/3.0



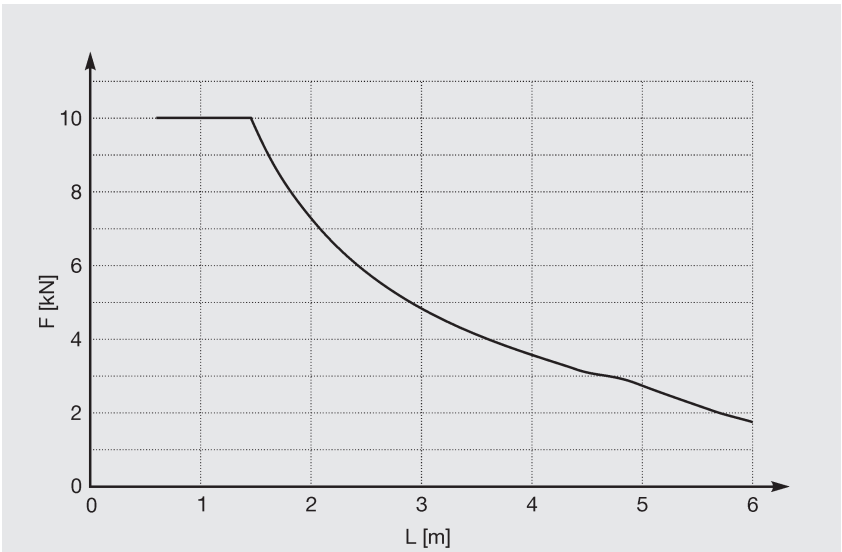
41-75/65/3.0 D

Channel MS 41-75/65/3.0

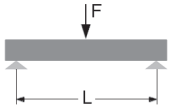
41-75/65/3.0



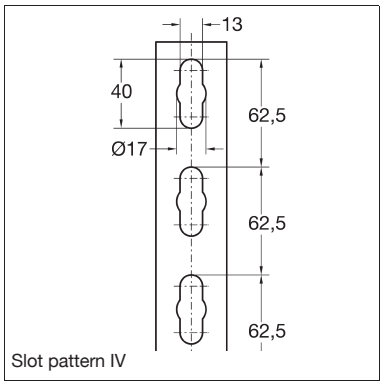
41-75/65/3.0 D



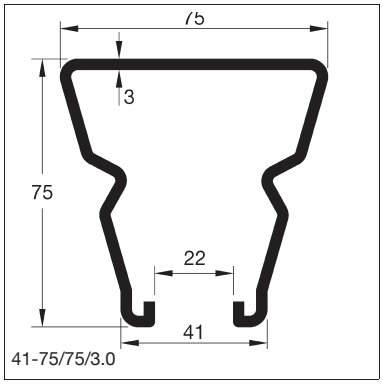
The influence of the channel slots and the channel's dead weight are taken into account in the values.



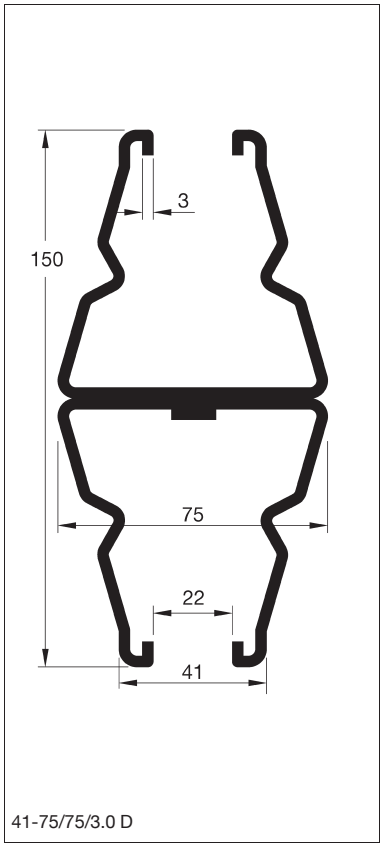
$\sigma_{perm} \leq 160$ N/mm^2
$f \leq L/200$



Slot pattern IV



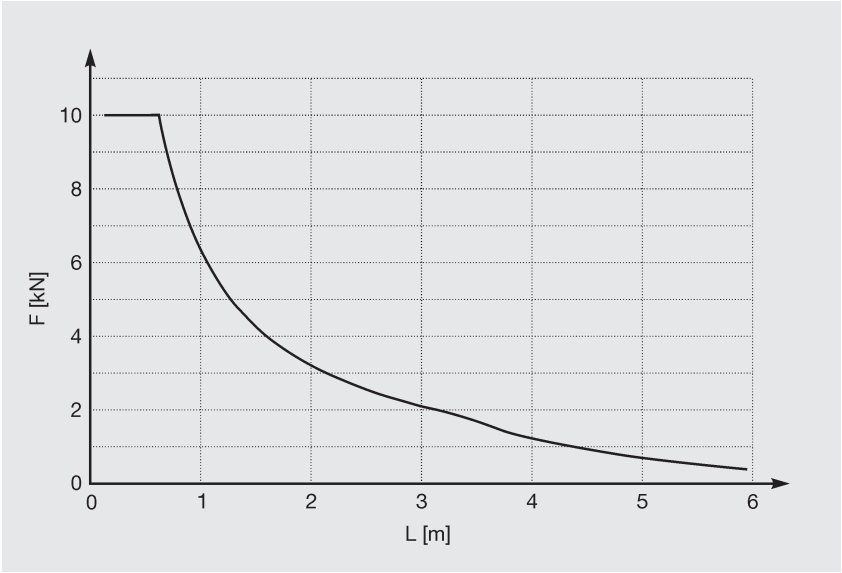
41-75/75/3.0



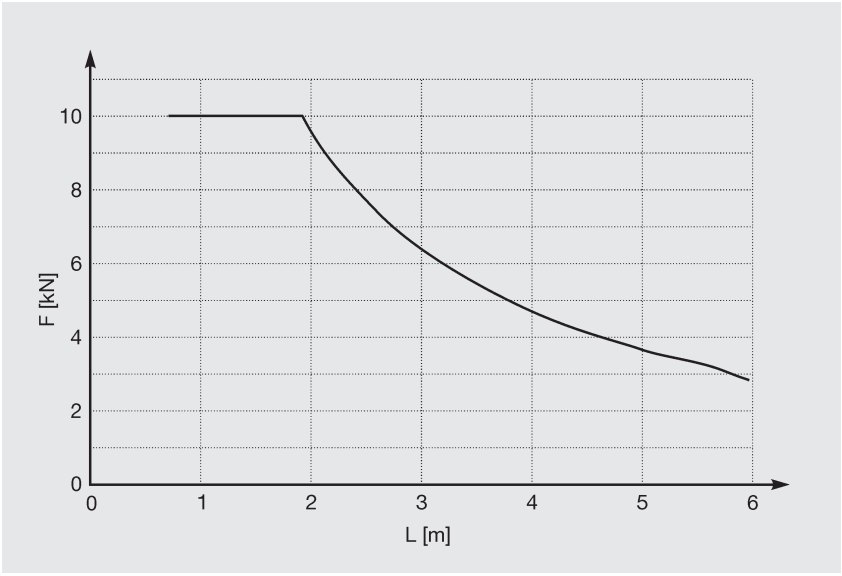
41-75/75/3.0 D

Channel MS 41-75/75/3.0

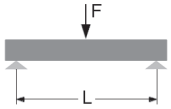
41-75/75/3.0



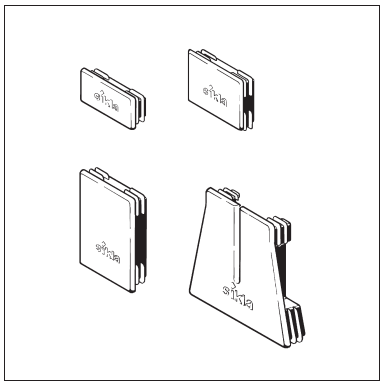
41-75/75/3.0 D



The influence of the channel slots and the channel's dead weight are taken into account in the values.



$\sigma_{perm} \leq 160$ N/mm^2
$f \leq L/200$



End Cap ADK 41

Group: 1304

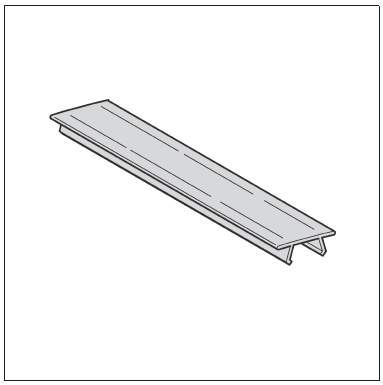
Application

To be used for safely and neatly covering the ends of Sikla Channels. Double channels require 2 End Caps.

Technical Data

Material: HD-PE, yellow

Type	For channel	W [kg]	Quantity [pack]	Part number
41/21	41/21/1.5 und 41/21/2.5	0.01	100	**101037**
41/31		0.01	100	**110477**
41/41	41/41/1.8 und 41/41/2.5	0.01	100	**177689**
41/45	41/45/3.0	0.01	100	**108812**
41/52	41/52/3.0	0.01	50	**177698**
41/62	41/62/3.0	0.01	50	**153201**
41-75/65	41-75/65/3.0	0.01	50	**177707**
41-75/75	41-75/75/3.0	0.02	50	**177716**



Channel Cover MSA 41

Group: 1304

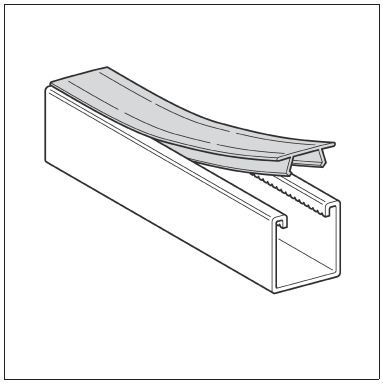
Application

For covering the opening of channels. Prevents build-up of dirt deposits inside the channel.
Provdes:

- easy cleaning due to even surface
- dustproof transitions
- tight fit by means of strong clamping
- free of halogens and lack disturbing substances

Installation

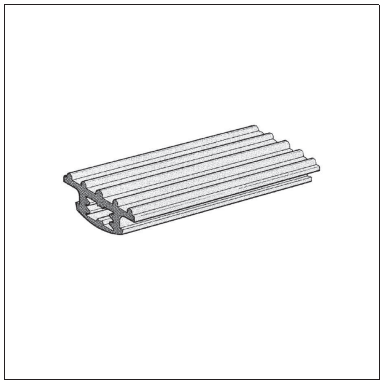
To be mounted by hand without tool.



Technical Data

Material: HDPE (temperature resistance -20°C up to +80°C), yellow

Type	Weight [kg/m]	Qty. [m]	Part number
Channel Cover 41	0.10	2	**180623**



Channel Lining SAL 41

Group: 1611

Application

Sound Absorption Lining for inserting into Sikla Channels or fitting around threaded rods; mainly for use in ducting systems, also for sound proof installations as per DIN 4109.

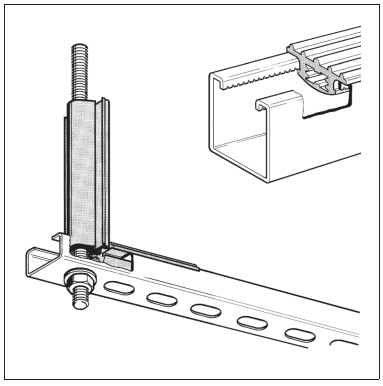
Scope of delivery

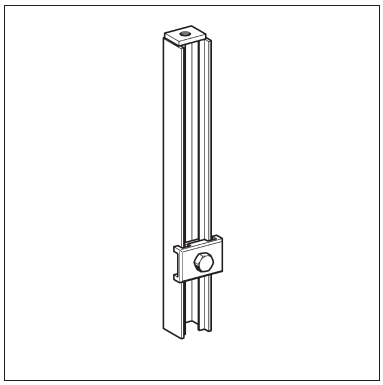
Rolls of 30 m or pieces of 50 mm each.

Technical Data

Material:	SBR/EPDM, black
Temperature range:	-50°C up to +110°C
Fire resistance:	B2 according to DIN 4102, non-dripping
Hardness:	50°+/-5° Shore

Type	For Sikla Channel opening	Thread connection	Length of piece [mm]	Roll [m]	W [kg]	Quantity [pack]	Part number
41	22 mm	M8/M10	-	30	14.27	1 Rolle	**101189**
41/L50	22 mm	M8/M10	50	-	0.02	100	**101204**





Channel Extension ST 41

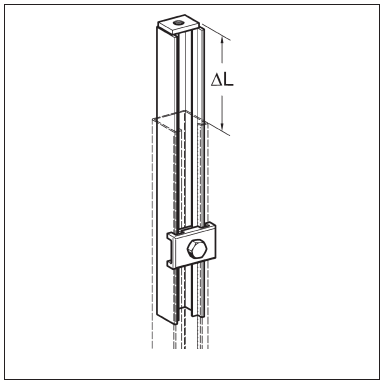
Group: 1356

Application

Highly variable extension piece for channels and channel constructions.

- Continuously variable from 0 up to 200 mm, simple adjustment, especially for elevated constructions.
- Ideal for the laying of individual or several pipelines with obligatory declines and for compensation of large tolerances of the building apart from the plans.
- In combination with Sikla Cantilever Brackets 41/41 continuously variable supports up to 1.2 m height are possible.

Suitable for all Sikla Channels MS 41 (height ≥ 41 mm).



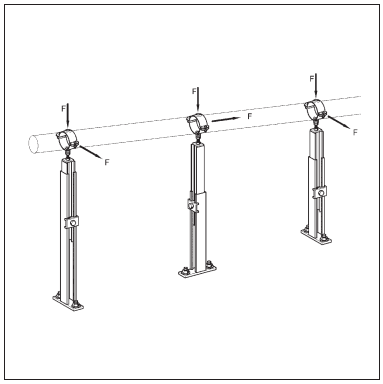
Scope of delivery

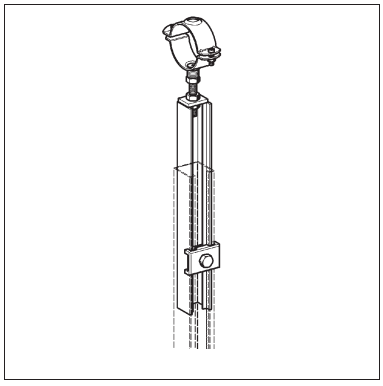
Complete component with pre-assembled Holding Bracket.

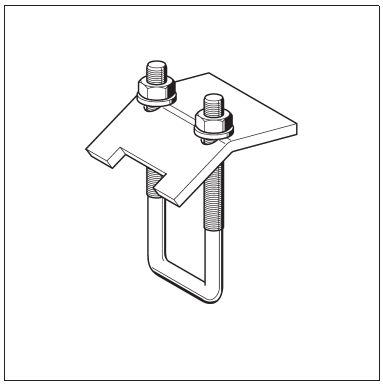
Technical Data

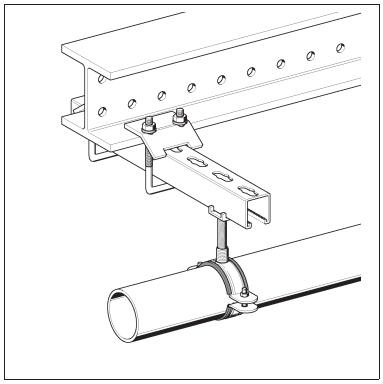
Max. perm. load	F_{perm} Advance for torque 40 Nm = 1.5 kN
Material	Steel, electro-galvanised

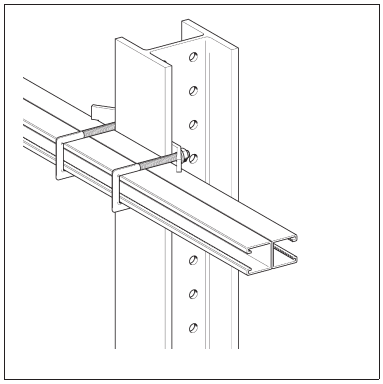
Type	Thread connection	W [kg]	Quantity [pack]	Part number
ST 41	M10	0.68	10	**189740**











U-Holder SB 41

Group: 1331

Application
Clamping element for bi-lateral attachment of crossbars to steel beams, independent from the channel's opening.

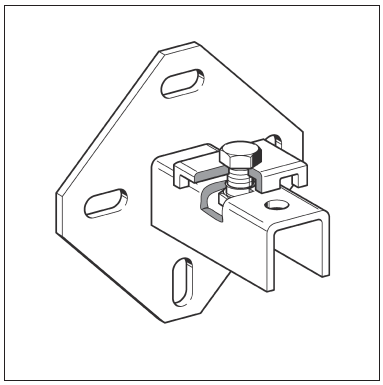
Installation
To be used in pairs.
Length calculation = Beam/Girder flange thickness + min. 2 x 50 mm overhang

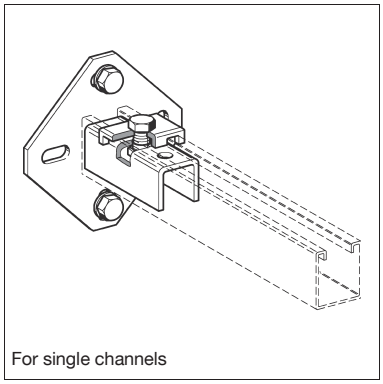
Technical Data

Type	Max. perm. load tension	Tightening torque
M8	3.5 kN per U-Holder	20 Nm
M10	5.0 kN per U-Holder	30 Nm

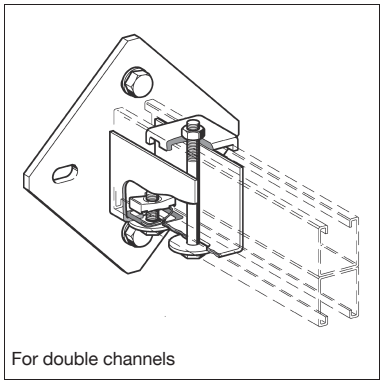
Material: Steel, electro-galvanised

Type	For channel height [mm]	Max. flange thickness [mm]	Thread	W [kg]	Quantity [pack]	Part number
41 - M8	20 - 62	16	M8	0.31	20	**192566**
41 - M10	20 - 62	16	M10	0.41	20	**183620**
41 D - M10	80 - 124	16	M10	0.48	20	**191657**

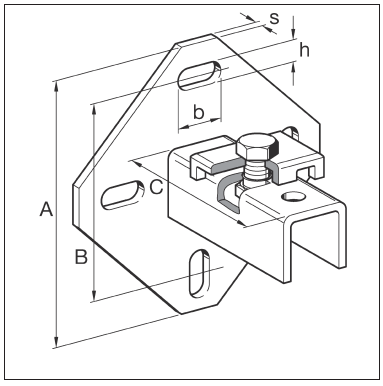




For single channels



For double channels



End Support WBD

Group: 1356

Application

In combination with a channel, End Support WBD is particularly suitable
- for setting up support structures attached to walls, floors and ceilings
- as a base for frame structures made of Sikla Channels.

The generous dimensions and the diamond shape of the mounting plate provide a high bending moment and safely stabilise lateral loads.

Installation

Normally, two bolts grouped opposite to each other and along the load axis are sufficient. Only in exceptional cases (e.g. tall uprights in frameworks) four bolts are required.

Minimum torque values for the hexagon bolts of the 41 Holding Brackets are:

Types	Holding Brackets [pcs]	Bolt for Holding Bracket	Accessories	Torque [Nm]
41/21-31 up to 41/41-45	1	M10	pre-assembled	40
41/52 up to 41-75/75	2	M12	pre-assembled	60
41/21 D up to 41/45 D	1	M10	in loose form	40
41/52 D up to 41-75/75 D	1	M12	in loose form	60

For ceiling mounting under high loads (up to 7.0 kN), we recommend the use of at least one fully traversing bolt for connecting the channel to the End Support WBD (for examples see "Installation Guideline").

Technical Data

Type	Suitable for für Sikla Channel	A [mm]	s [mm]	B [mm]	b [mm]	h [mm]	C [mm]
41/21-31	41/21/1.5 - 2.0 41/31/2,0	135	6	100	25	11	95
41/41-45	41/41/2.0 - 2.5 41/45/2.5	135	6	100	25	11	95
41/52	41/52/2.5	170	6	120	25	13	131
41/62	41/62/2.5	170	6	120	25	13	131
41-75/65	41-75/65/3.0	210	8	170	25	13	131
41-75/75	41-75/75/3.0	210	8	170	25	13	131
41/21 D	41/21/1.5 - 2.0 D	135	6	100	25	11	125
41/41-45 D	41/41/2.0 - 2.5 D 41/45/2.5 D	210	8	170	25	13	125
41/52 D	41/52/2.5 D	210	8	170	25	13	135
41/62 D	41/62/2.5 D	255	8	205	25	13	135
41-75/65 D	41-75/65/3.0 D	255	8	205	25	13	135
41-75/75 D	41-75/75/3.0 D	255	8	205	25	13	135

Working load for wall mounting:
See tables on the following pages. The figures apply on wall applications if two bolts of the load class as stated are used.

Working load for ceiling mounting:
The permissible maximum vertical load for ceiling mounting structures fixed by way of at least one traversing bolt (class 8.8) amounts to 7.0 kN

For End Supports WBD for single channels, the following values apply subject to the condition that all included accessories are assembled correctly.

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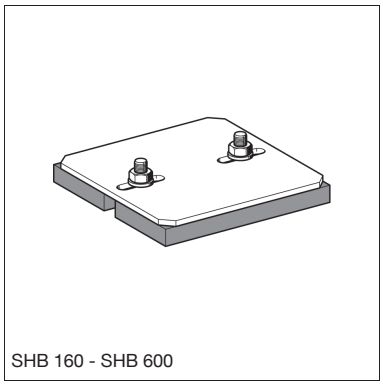
Types	Working load (tension) for ceiling mounting [kN]
41/21-31 up to 41/41-45	2.0
41/52 up to 41-75/75	4.0

Material: Steel, cold-formed, electro-galvanised

Type	For Sikla Channel	Holding Brackets [number of]	W [kg]	Quantity [pack]	Part number
41/21-31	41/21/2.5	1	0.73	10	**177725**
41/41-45	41/41/2.5; 41/45/3.0	1	0.83	10	**155054**
41/52	41/52/3.0	2	1.44	5	**177734**
41/62	41/62/3.0	2	1.50	5	**155063**
41-75/65	41-75/65/3.0	2	2.15	5	**177743**
41-75/75	41-75/75/3.0	2	2.19	5	**177752**
41/21 D	41/21/2.5 D	1	1.14	5	**146469**
41/41-45 D	41/41/2.5 D; 41/45/3.0 D	1	2.46	5	**106768**
41/52 D	41/52/3.0 D	1	2.86	5	**177761**
41/62 D	41/62/3.0 D	1	4.00	5	**155090**
41-75/65 D	41-75/65/3.0 D	1	4.18	5	**177770**
41-75/75 D	41-75/75/3.0 D	1	4.38	5	**177779**



SHB 160 - SHB 600

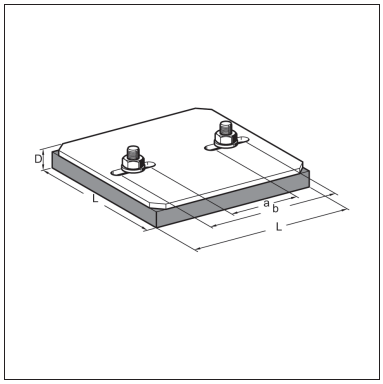
Insulated Foot Plate SHB HCP

Group: 1856

Application

Complete solution incl. protection pad for flat roofs and plastic sheets, as well as supply centres with laminated floor composition in basements.
In combination with the Sikla Assembly System, this element allows the realisation of arbitrarily compositions. The water-proof protection pad allows a secure and reliabe support with constant load spreading. Especially suitable for the assembly of aggregations, pipelines, ductings or travel paths.

Following elements could be assembled to the Insulated Foot Plate: Slide Elements, Mounting Plates, Support Brackets 150/150, Joints JOI 41 T, Channels MS 41, Cantilever Brackets, End Supports WBD for single channel.

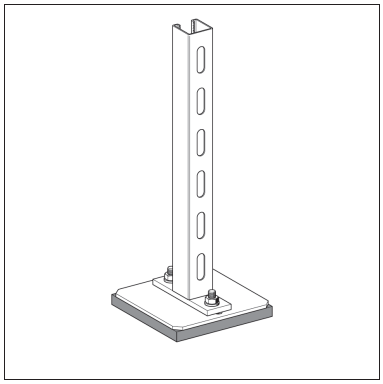


Installation

Unscrew the nuts, position the distance between the screws according to the slot pattern of the element to be connected and tighten screws.

Technical Data

Statical E-module:	According to DIN 53513	0.8 - 0.9 N/mm^2
Dynamic E-module:	According to DIN 53513	0.6 - 2.2 N/mm^2
Compression set:	DIN 53572	approx. 4.5 % measured 30 min. after release at 50 % compression / 23°C after 72 hrs
Tensile strength:	DIN 53571	0.40 N/mm^2 min.
Ultimate elongation:	DIN 53571	70 % min.
Tear strength:	DIN 53515	3.4 N/mm^2 min.
Fire resistance:	DIN 4102	B2

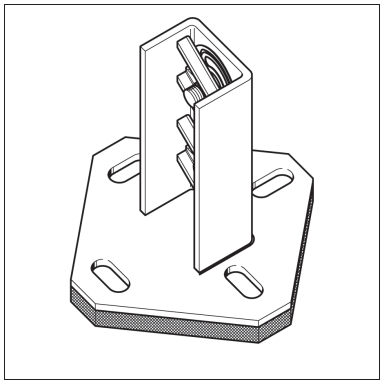


Tests to determine friction values shall be carried out by the customer. Also the statics have to be verified by a qualified engineer.
Material: Steel, HCP, caoutchouc compound material

Type	L [mm]	a [mm]	b [mm]	D [mm]
SHB 160	164 x 164	65	131	20
SHB 300	304 x 304	65	131	20
SHB 450	454 x 454	65	131	21
SHB 600	604 x 604	65	131	23

Type	Channel height h_{max} [mm]	Dimensions of the plate [mm]
SHB 41-1	41 - 62	110 x 110
SHB 41-2	41 - 62	160 x 160

For other dimensions, see End Support WBD.



Type	W [kg]	Quantity [pack]	Part number
SHB 160	1.30	10	**113117**
SHB 300	4.50	1	**113118**
SHB 450	11.50	1	**113119**
SHB 600	26.50	1	**113120**
SHB 41-1	1.22	10	**198902**
SHB 41-2	2.30	5	**198919**

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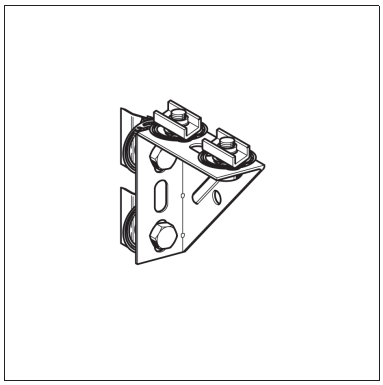


Support Bracket CC

Group: 1326

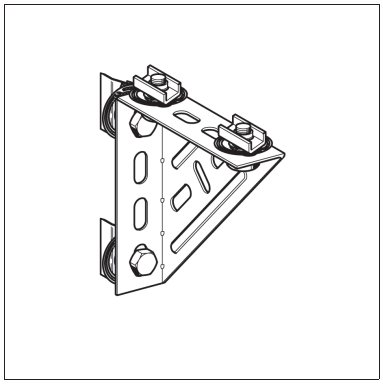
Application

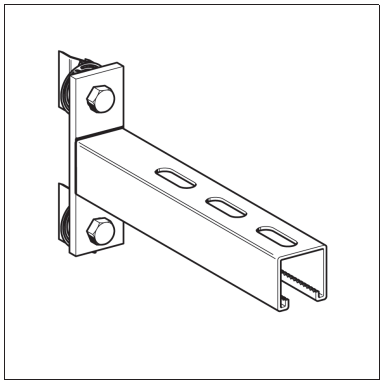
Suitable for use in connection with Sikla Channels.
In combination with bolted-on channels, they offer a wide range of possibilities for cantilever arrangements. In addition, the load capacity of cross-bars can be increased by fixing them onto Support Brackets.

Technical Data

Material: Steel, electro-galvanised

Type	W [kg]	Quantity [pack]	Part number
CC 100/100-40	0.33	25	**191774**
CC 150/150	0.69	10	**191783**





Cantilever Bracket CC

Group: 1354

Application

Ready-to-use bracket mainly for mounting pipes or canal to channels.

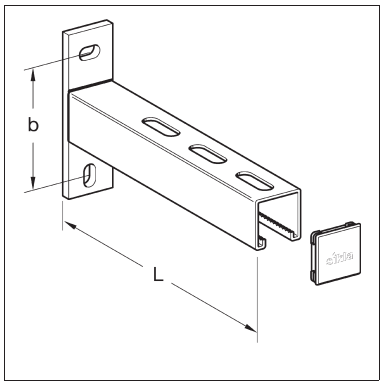
Installation

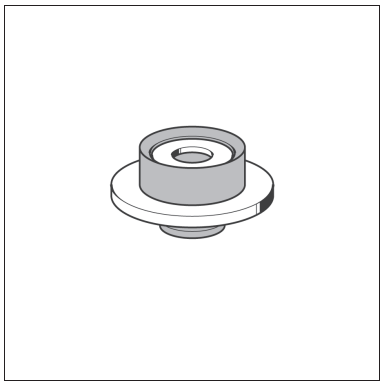
When used in combination with Slide Elements, a Tie Rod is absolutely essential for absorbing the forces running along the centre line of the pipe.
For cantilever lengths ≥ 500 mm we recommend the integration of a prop-up.

Technical Data

Material: Steel, electro-galvanised

Type	L [mm]	Wall plate [mm]	b [mm]	W [kg]	Quantity [pack]	Part number
CC 41/41-200	196	134 x 40 x 8	100	0.79	10	**191792**
CC 41/41-260	258	134 x 40 x 8	100	0.90	10	**191801**
CC 41/41-320	321	134 x 40 x 8	100	0.90	10	**191819**
CC 41/41-445	446	134 x 40 x 8	100	1.27	10	**191828**
CC 41/41-570	571	134 x 40 x 8	100	1.80	10	**191837**
CC 41/41-820	821	134 x 40 x 8	100	2.00	1	**191846**
CC 41/41-1010	1008	134 x 40 x 8	100	2.87	1	**191855**





Sound Absorption Element SDE 41

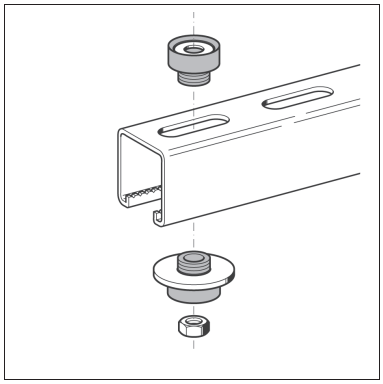
Group: 1610

Application
Sound Absorption Element for use in combination with Sikla Channels in ducting systems (suitable also for sound proof requirements according to DIN 4109).

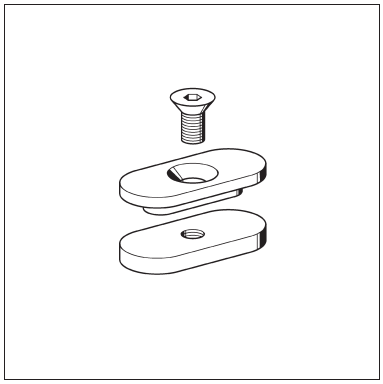
Scope of delivery
With inserted and retained washer.

Technical Data

Material:	TPE, black
Temperature range:	-50°C up to +110°C
Fire resistance:	B2 according to DIN 4102, non-dripping
Hardness:	50°+/-5° Shore
Washer:	Steel, galvanised



Type	For channel	Thread connection	Total-Height [mm]	Height of collar [mm]	W [kg]	Quantity [pack]	Part number
41	41	M8/M10	18	10	0.01	100	**107802**



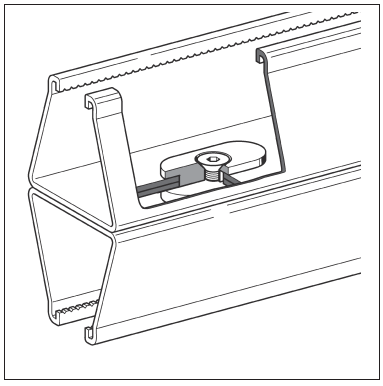
Clamping Unit KL

Group: 1357

Application
Used for assembling double channels made from Sikla Channels with slot pattern III or IV, i.e. with a minimum material thickness of 2.5 mm.
This system could be used for pre-assembly in a workshop also.
A torque wrench is required in order to ensure that the static values indicated on page 3-7 are achieved.

Attention: These values are only guaranteed when using Sikla Channels.

Scope of delivery
Consists of forming plate, pressure plate and a hexagon socket bolt M8 (DIN 7991)



Installation
Max. spacing between connecting points is 500 mm, with one point at each end of the channel section. Required number of Clamping Units: channel 2m = 5 pcs., channel 6m = 13 pcs.
For Channel 41/21/2,0 no connecting elements, like channels nuts, etc. could be placed directly above the connectors.
Torque: M = 25 Nm

Technical Data
Material: Malleable cast iron, electro-galvanised

Type	For Sikla Channel	W [kg]	Quantity [pack]	Part number
KL 1	41/21/2.0 bis 41-75/75/3.0	0.11	50	**118055**

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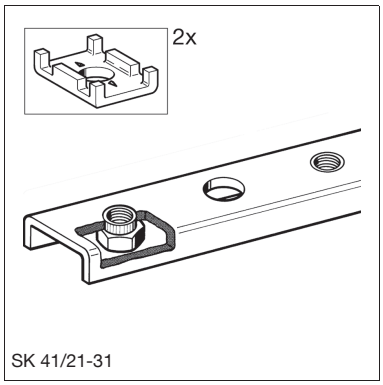
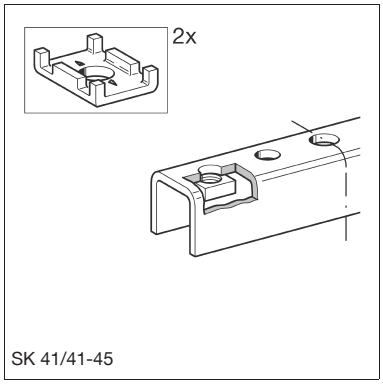
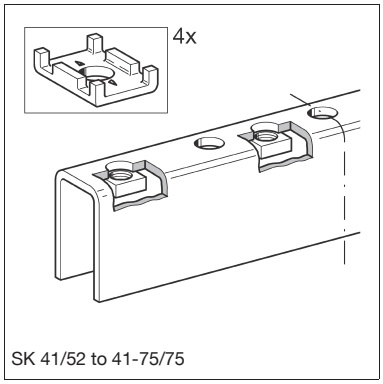


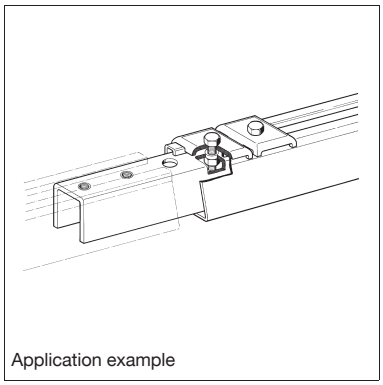
SK 41/21-31



SK 41/41-45



SK 41/52 to 41-75/75


Application example

Channel Connector SK

Group: 1353

Application

Developed for easily and safely joining Sikla Channels on or for pre-assembly in the workshop with a minimum of individual parts.
The overall design ensures there is no static weak point near the channel connector when single channels are connected. For single channels, the figures as indicated on page 3-7 are applicable.

Scope of delivery

With Holding Brackets HK 41 and hexagon nuts (supplied loose).

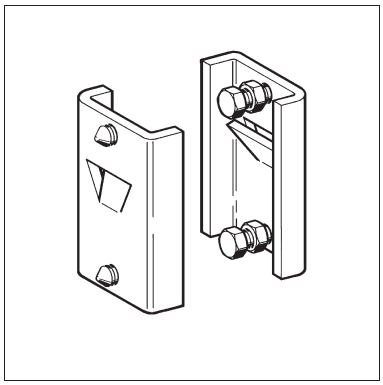
Installation

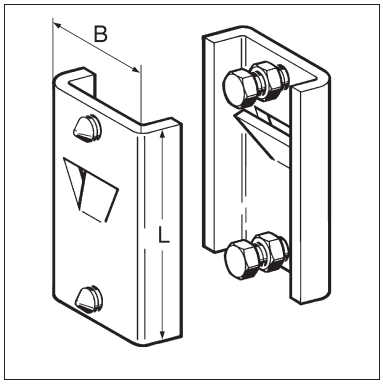
To guarantee the static values, the supplied elements have to be used. For extension of double channels, see advice brochure "Installation Guidelines".

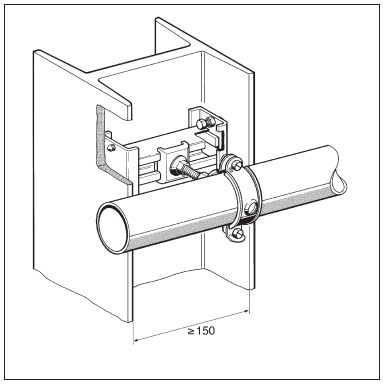
Technical Data

Material: Malleable iron, electro-galvanised

Type	For channel	Overall length [mm]	W [kg]	Quantity [pack]	Part number
SK 41/21-31	41/21/1.5 - 41/31/2.0	160	0.40	10	**177599**
SK 41/41-45	41/41/2.0 - 41/45/2.5	160	0.59	10	**155115**
SK 41/52	41/52/2.5	260	1.10	10	**177608**
SK 41/62	41/62/2.5	260	1.35	10	**155124**
SK 41-75/65	41-75/65/3.0	260	1.41	10	**177617**
SK 41-75/75	41-75/75/3.0	260	1.61	10	**177626**







Clamping End SKL

Group: 1350

Application
Mounting element to be fixed within the flanges of I- and U-shaped beams. The systems (such as pipes, etc.) supported this way may run parallel or at right angles to the direction of the I or U beam.

Also suitable as support for crossbars between two vertically adverse arranged profiles.

Scope of delivery
Pre-assembled

Installation
The tightening moment of the clamping bolts must be between 1 (minimum) and 1 1/2 (maximum) turns; then tighten locking nuts.

Note:
The length of the channel to be cut : inside diameter of beam less 25 mm

Technical Data
Permissible load per set: Crossbar support: (2 sets) 5.0 kN/crossbar
Single attachment: (1 set) 2.5 kN

The maximal torsional moment of the channel is to be taken into consideration.

Material: Cold-worked steel, electro-galvanised

Type	For Channel size	Minimum beam type [mm]	L [mm]	B [mm]	W [kg]	Pack. [Set]	Part number
SKL	41/41/2.5 u. 41/45/2.5	IP 140. U 200	100	62	0.93	5	**145671**

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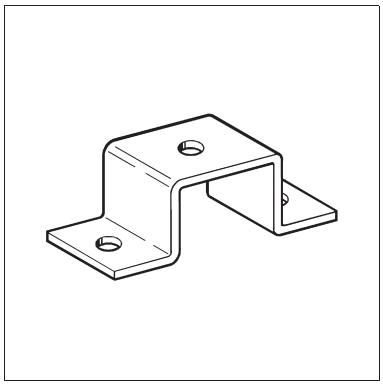
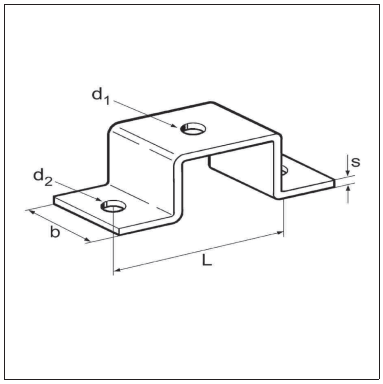
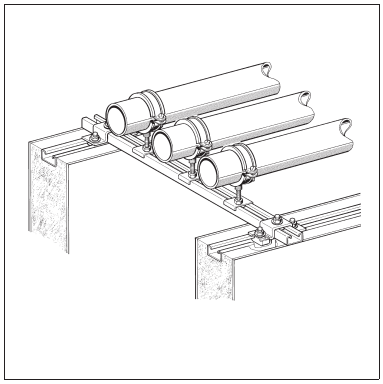






Channel Bracket SH

Group: 1112

Application

For fixing Sikla Channels:

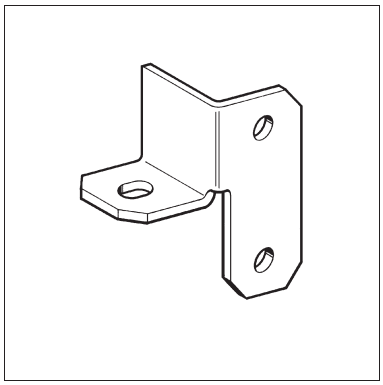
- directly to the building structure or
- directly onto other channels for frame assembly.

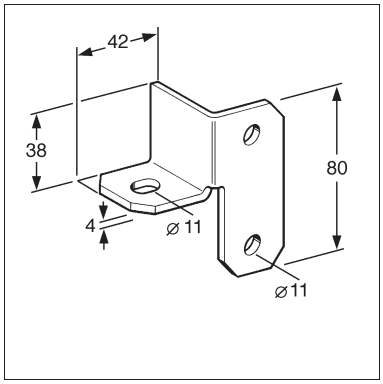
When mounting the Channel Holder onto freestanding or embedded channels, we recommend the use of Speed Nut CC bolts.

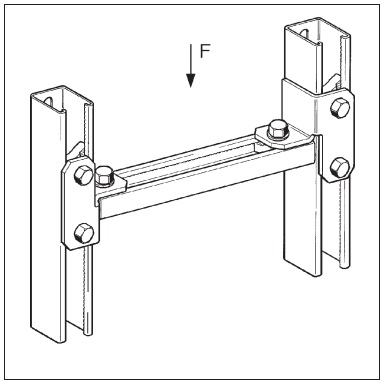
Technical Data

Material: Steel, electro-galvanised

Type	b x s [mm]	L [mm]	Ø d_1 [mm]	Ø d_2 [mm]	W [kg]	Quantity [pack]	Part number
41/21	40 x 4	80	11	11	0.15	50	**177338**
41/31	40 x 4	80	11	11	0.18	50	**113645**
41/41 u. 41/21 D	40 x 4	80	11	11	0.20	50	**177365**
41/45	40 x 4	80	11	11	0.21	50	**126791**
41/52	40 x 4	80	11	11	0.23	50	**177347**
41/62	40 x 4	80	11	11	0.27	25	**177356**
41-75/65	50 x 5	120	13	13	0.43	25	**177644**
41-75/75	50 x 5	120	13	13	0.48	25	**177662**
41/41 D	40 x4	80	11	11	0.30	10	**177374**
41/45 D	40 x4	84	13	13	0.33	10	**125532**
41/52 D	40 x4	84	13	13	0.38	10	**177383**
41/62 D	40 x4	84	13	13	0.42	10	**163000**
41-75/65 D	50 x 5	120	13	13	0.69	10	**177671**
41-75/75 D	50 x 5	120	13	13	0.76	10	**177680**







Corner Bracket EW 41

Group: 1352

Application

Bracket for assembling crossbars made of Channels MS 41:
41/21/1.5 ....41/62/3.0 (suitable for double channels also)

- Particularly useful in cases in which the openings of the channels are not facing the crossbars.
- The same bracket can be used on both sides of the crossbar; thus easy stockkeeping and no danger of mix-up.

Scope of delivery

Supplied without bolts and nuts.

Installation

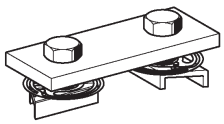
To be used in pairs.
For easy installation, pre-assemble 3 M10x20 Hexagon Bolts with CC-Nut M10 (use washer for oval hole). This way, the Corner Bracket may be tightened in the channels immediately after insertion.

Note: The cutting length of the crossbar should be clearance minus 10 mm (see drawing)

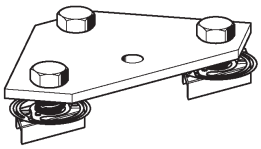
Technical Data

Max. perm. working load:	2.5 kN centre load per crossbar fixed with 2 EW Corner Brackets 41
Material:	Steel, electro-galvanised

Type	W [kg]	Quantity [pack]	Part number
EW 41	0.17	25	**160803**



Type 1



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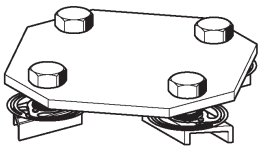


Type 3

Flat Fitting ECO CC

Group: 1351

Application

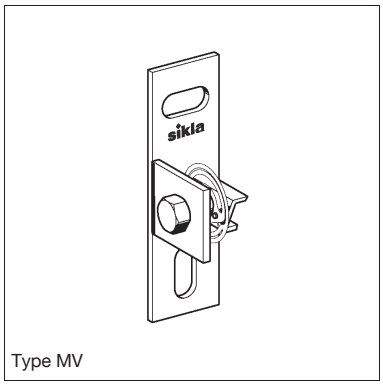
Pre-assembled connecting element for frame structures, optimised for linking channels of the 41 series.

- Locks automatically when being put in place, and supports its own weight.
- Secure, form-locking, non-positive connection. Completely pre-assembled with serrated CC nut and clamping screw M10. High stiffness.

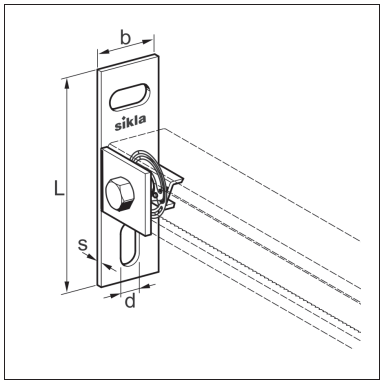
Technical Data

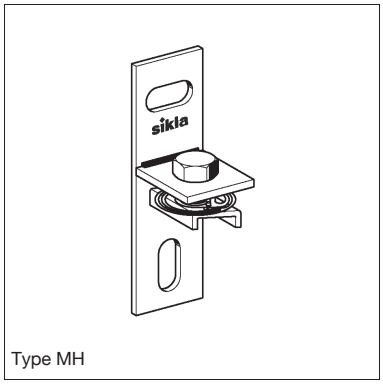
Working load: F_{perm} = 2.0 kN / per Fitting
Torque: 40 Nm
Material: Steel, electro-galvanised

Type	W [kg]	Quantity [pack]	Part number
CC-1	0.31	20	**181190**
CC-2	0.46	10	**181199**
CC-3	0.67	10	**181208**

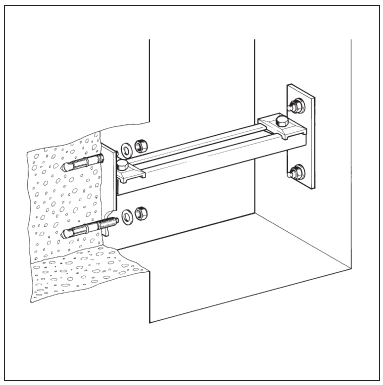


Type MV





Type MH



T-Bracket MOS

Group: 1330

Application

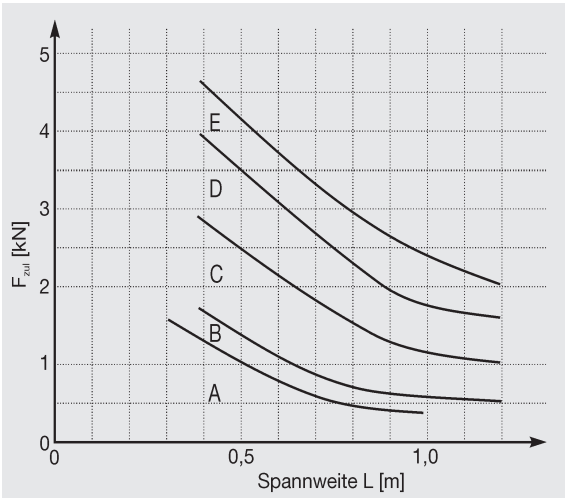
This T-Bracket serves as connecting element for cross bars between two channels.

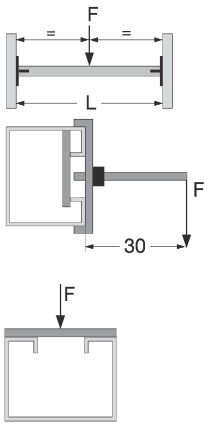
Note: For one cross bar always two T-Brackets should be used.

Scope of delivery

Completely pre-assembled with CC-Speed Nut and Hexagon Bolt.

Technical Data





Curve A: MV 41 resp. MH 41 with channel 41/21/1.5 (M8)
Curve B: MV 41 with channel 41/41/2.5 (M8)
Curve C: MH 41 with channel 41/41/2.5 (M10)
Curve D: MV 41 with channel 41/52/2.5 (M10)
Curve E: MH 41 with channel 41/52/2.5 (M10)

Material: Steel, electro-galvanised

Type	b x s [mm]	L [mm]	d [mm]	W [kg]	Quantity [pack]	Part number
MH 41	40 x 4	135	13	0.29	10	**143800**
MV 41	40 x 4	135	13	0.29	10	**143794**

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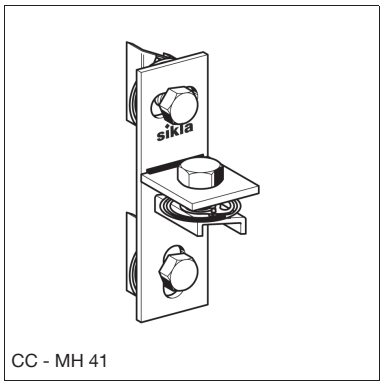
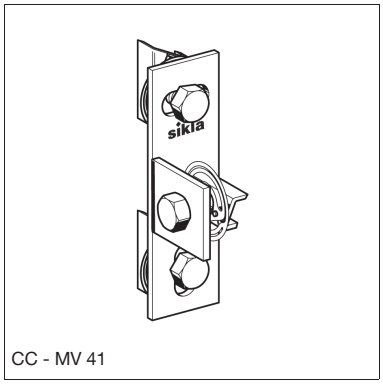
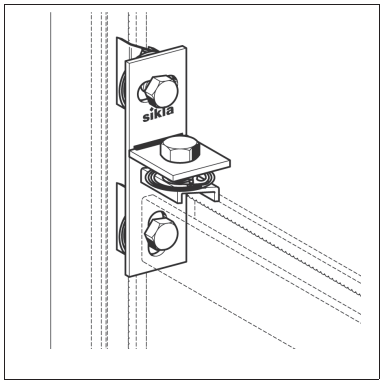
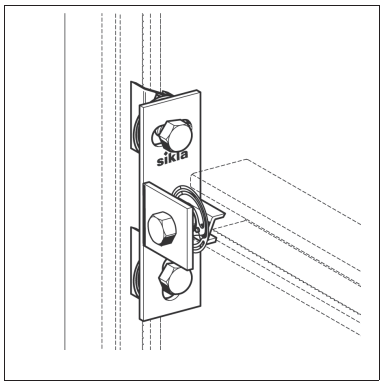


CC - MH 41



CC - MV 41





T-Bracket MOS CC

Group: 1330

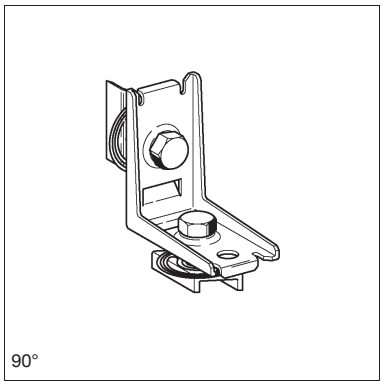
Application
Connecting element for cross bars between two channels.

Note: Per cross bar always two T-Brackets have to be used.

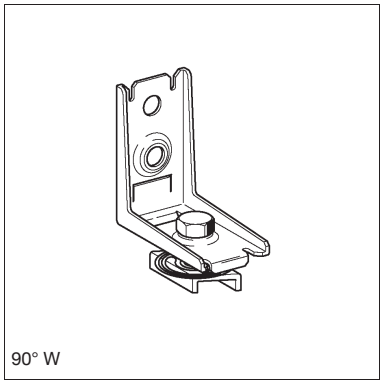
Scope of delivery
Completely pre-assembled.

Technical Data
Material: Steel, electro-galvanised

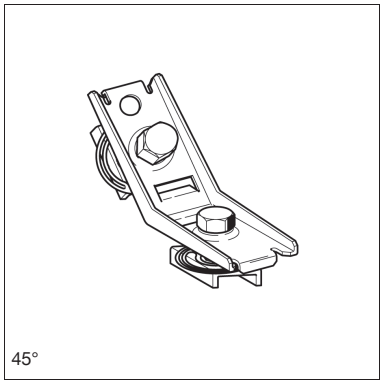
Type	For channel	Wall plate [mm]	W [kg]	Quantity [pack]	Part number
CC - MH 41	41/21 - 41/52	135 x 40 x 4	0.39	10	**191756**
CC - MV 41	41/21 - 41/52	135 x 40 x 4	0.39	10	**191765**



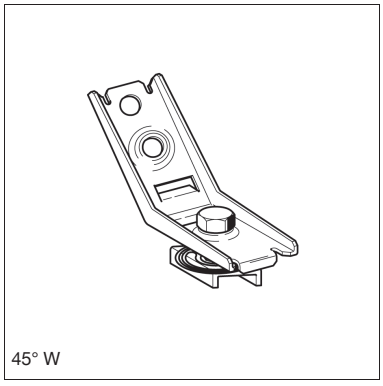
90°



90° W



45°



45° W

Angle Connector CN CC 41 Stabil

Group: 1326

Application

Pre-assembled connecting element for frame structures made of channels.
Version W suitable for connections to wall, floor or ceiling.

- High-speed assembly system for 90°- and 45°-structures of Channels MS 41.
- Locks automatically by pushing down the bolt head and at the same time supports its own weight
- Secure, form-locking, non-positive connection. Serrated speed nut with clamping bolt M10. Ideal shaping and high-strength material for high stiffness.

Technical Data

Channel thickness [mm]	FZ [kN]	FQ [kN]
1.5	3.5	2.3
2.0	3.5	2.3
2.5	3.5	3.5
3.0	3.5	3.5

Torque: 50 Nm
Material: Steel, pre-galvanised

Approvals

This product has been awarded the RAL quality mark "pipe supports" and is subject to continuous external monitoring according to RAL GZ-655.

Type	W [kg]	Quantity [pack]	Part number
CC 41-90° Stabil	0.23	25	**191675**
CC 41-90° W Stabil	0.17	25	**191684**
CC 41-45° Stabil	0.23	25	**191882**
CC 41-45° W Stabil	0.17	25	**191891**

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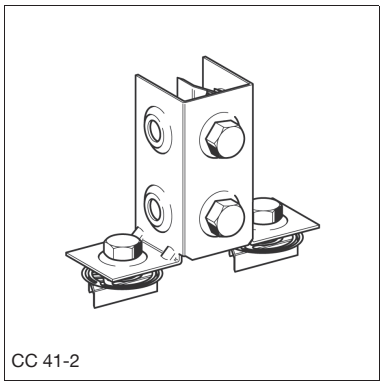
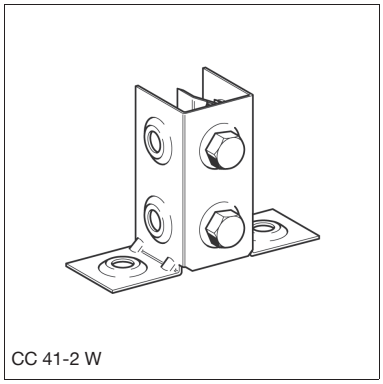
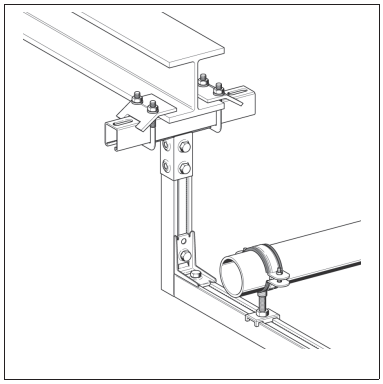
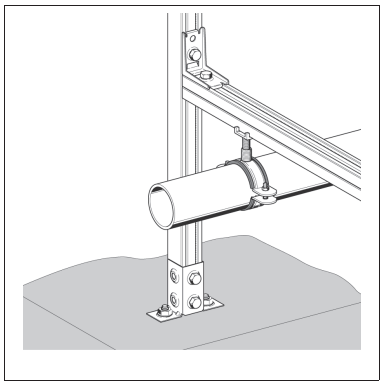


CC 41-2



CC 41-2 W





Angle Connector CN CC 41-2

Group: 1352

Application

Pre-assembled connecting element for three-dimensional frame structures, optimised for linking channels of the 41 series at an angle of 90°.
Preferably used in combination with 41/41 square channels.

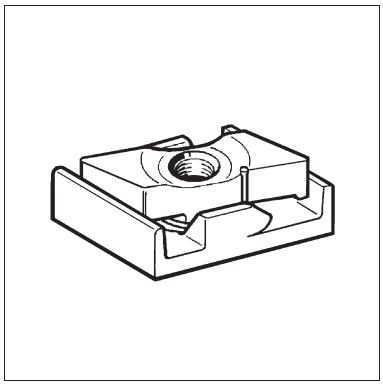
Version W is used for connection to wall, floor or ceilings. The adjustment for the channel opening could still be chosen.

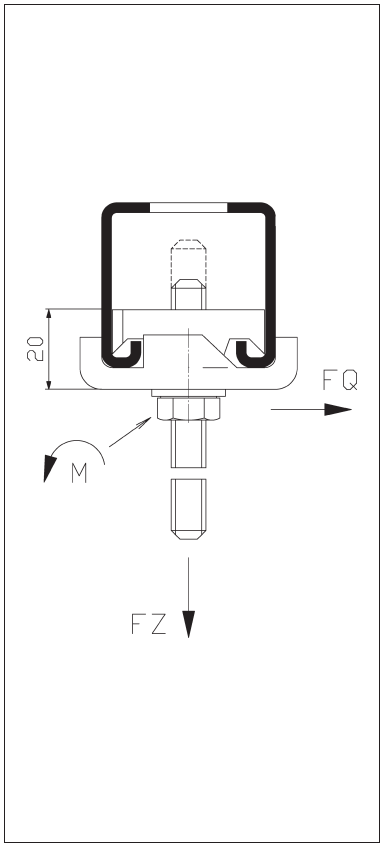
- Fast-Technique for 90° joints of Channel System 41
- Locks automatically when being put in place and supports its own weight.
- Secure, form-locking, non-positive connection. Serrated Channel Nut with Hexagon Bolt M10. Ideal shaping for high stiffness.

Technical Data

Working load: F_{perm} = 3.0 kN per Connector
Torque: 50 Nm
Material: Steel, pre-galvanised

Type	W [kg]	Quantity [pack]	Part number
CC 41-2	0.55	10	**193495**
CC 41-2 W	0.45	10	**193648**





Block PB 41

Group: 1308

Application

Quick-installation element for efficiently mounting pipe clamps and other components to all Sikla Channels of the 41 series. The width is suitable for double channels also.

- Time saving due to pre-assembled block - replaces 2 indvidual parts.
- Due to the force of the integrated spring, self-supporting if used for vertical channels; can however still be easily moved along the channel by hand.
- To be combined with Pressix Rods PNS, Grub Screws, Bolts and other threaded elements.

Scope of delivery

Pre-assembled.

Installation

Insert the Block into the channel; by turning the Holding Bracket by 90° to the right, the Channel Nut locks into the stop position; then tighten nut or other connecting part - the job is done!

Note:
Minimum screwing depth from the lower edge of the Holding Bracket = 20 mm.

Technical Data

The permissible load is determined by the threaded (grooved) rods used. Also the point carrying capacity of the channel and its torsional moment must not be exceeded.
These values can be found in the technical data sheets of the respective products.

FQ= Permissible lateral force (applicable also against displacing)
FZ= Permissible tensile force at the Block
M= Tightening moment of the nut or of another connecting component for reaching the lateral force FQ (applicable to all Grub Screws of class 4.6 and greater without grooves in the tightening area)

Material: Steel, electro-galvanised

See the nominal loads for Block PB 41 in the following table.

Type	M [Nm]	FZ [kN]	FQ [kN]	W [kg]	Quantity [pack]	Part number
M8	10	5.8	1.5	0.11	50	**160380**
M10	18	9.3	2.5	0.11	50	**160399**
M12	32	10.0	3.0	0.13	50	**171287**

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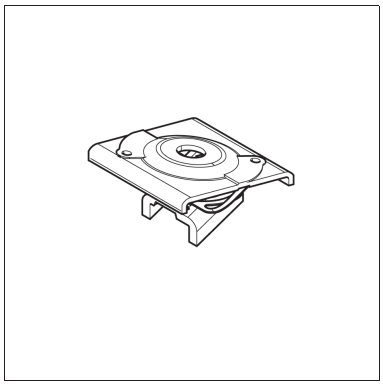
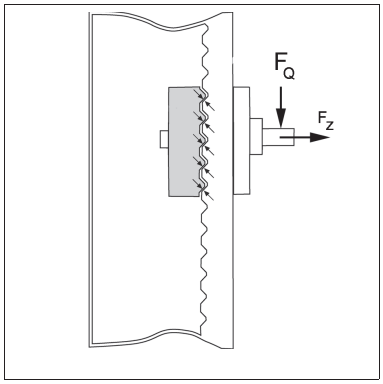




Block PBH 41

Group: 1308

Application

Quick-installation element for efficiently mounting pipe clamps and other components to all Sikla Channels of the 41 series, suitable for double channels also.

- Time saving due to pre-assembled block - replaces 2 individual parts.
- Due to the force of the integrated spring, self-supporting if used for vertical channels; can however still be easily moved along the channel by hand.
- To be combined with Pressix Rods PNS, Grub Screws, Bolts and other threaded elements.

Scope of delivery

Pre-assembled

Installation

Insert the Block into the channel; by turning the Holding Bracket by 90° to the right, the Channel Nut locks into the stop position; then tighten nut or other connecting part with torsional moment (M) of max. 40 Nm - the job is done!

Technical Data

Min. material thickness Channel MS 41 [mm]	FZ * [kN]	FQ * [kN]
1.5	4.7	2.0
2.0	5.8	2.0
≥ 2.5	5.8	2.0

Perm. load FZ * under stress of fire

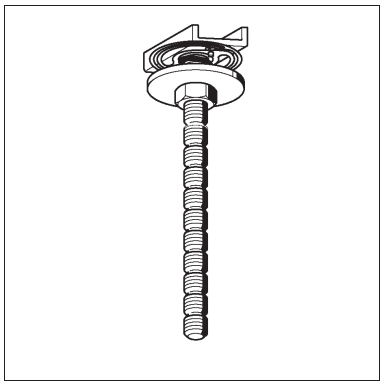
Min. material thickness Channel MS 41 [mm]	FWD 30 [N]	FWD 60 [N]	FWD 90 [N]	FWD 120 [N]
2.0	≤ 850	≤ 430	≤ 250	
≥ 2.5	≤ 1000	≤ 540	≤ 350	≤ 250

FZ = max. permissible tensile load
FQ = max. permissible lateral force against displacing

* The load capacity of the connecting parts used is to be considered. This applies particularly under stress of fire.

Material: Steel, electro-galvanised

Type	W [kg]	Quantity [pack]	Part number
M8	0.05	50	**198988**
M10	0.05	50	**198995**
M12	0.05	50	**199008**



Blockset PBS CC 41

Group: 1309

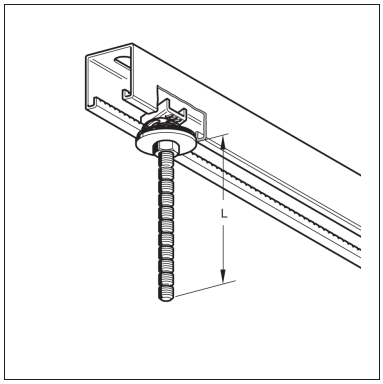
Application

Quick-installation element for efficiently mounting pipe clamps and other components to all Sikla Channels of the 41 series (double channels also).

- Time-saving due to pre-assembled Blockset instead of 4 single parts.
- Easy height adjustment inside the channel.
- Grooved rod is retained, thus preventing any accidental unscrewing.
- The grooves (distance 10 mm) provide for easy cutting with the Rod Cutter PBC, saw-cutting or finishing is not required.

Scope of delivery

Blockset completely pre-assembled.



Installation

Insert the Blockset into the channel; tighten nut - the job is done!
Dismounting takes place in reverse order by turning the to the left and exerting light pressure on the grooved rod in channel direction.

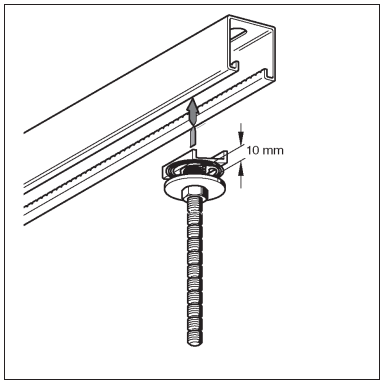
Technical Data

Type	M [Nm]	FZ [kN]
M8 x ...	10	3.3
M10 x ...	18	4.5

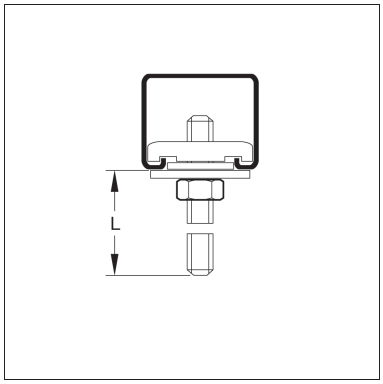
FZ = permissible traction at the grooved rod

Note: The point carrying capacity of the channel must not be exceeded.

Material: Steel, electro-galvanised



Type	L [mm]	W [kg]	Quantity [pack]	Part number
M8 x 35	35	0.07	25	**191549**
M8 x 75	75	0.08	25	**191558**
M8 x 125	125	0.10	25	**191567**
M8 x 175	175	0.11	25	**191576**
M8 x 275	275	0.14	25	**191585**
M10 x 35	35	0.09	25	**191594**
M10 x 75	75	0.10	25	**191603**
M10 x 125	125	0.12	25	**191612**
M10 x 175	175	0.15	25	**191621**
M10 x 275	275	0.20	25	**191639**



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Rod Cutter PBC

Group: 2107

Application

Provides for easy cutting of grooved M8 and M10 Pressix Rods.

- Sawing and time-consuming chamfering of threads is no longer required; the thread is not damaged.

Note: To be used for Pressix Rods exclusively!

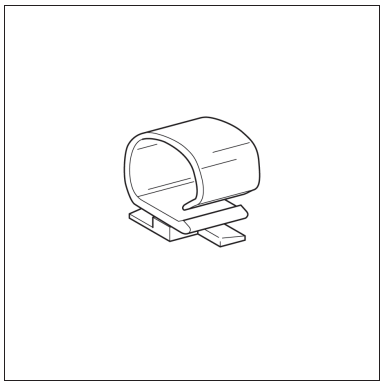
Installation

When cutting rods, please observe the pertinent regulations as regards the handling of cutting tools!

Technical Data

Material: Steel, hardened blades.

Type	Quantity [pack]	Part number
PBC	1	**155683**



Cable Bracket KHP

Group: E100

Application

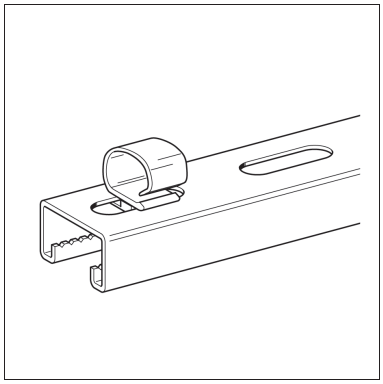
Clip for connecting cables up to a diameter of 16mm to PV mounting systems. Suitable to slot into the back of all Channels MS 41 with min. profile thickness of 2mm.

Installation

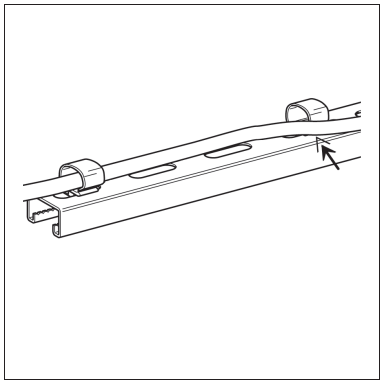
The cable holder is locked by a simple 90 degree right turn in the elongated holes of the mounting rail.

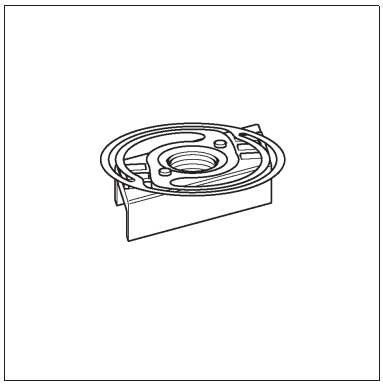
Technical Data

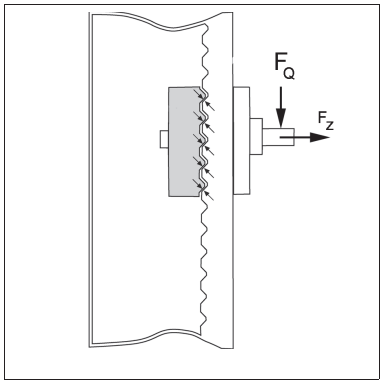
Material: PA, nature



Type	W [kg]	Quantity [pack]	Part number
KHP	0.01	500	**110879**







Speed Nut NT CC 41

Group: 1314

Application

In particular useful when installing in vertical channels or in places of difficult access.
Further advantages:

- For all Sikla Channels MS 41, independent of the height of the channel.
- No getting stuck on bolt heads when sliding in the channel.
- No appearance of settlement after tightening.

Scope of delivery

Channel Nut and Spring are tightely connected.

Installation

After inserting the Speed Nut into the channel opening, it is - by exerting slight pressure on it - turned to the right as far as it will go; deinstallation may be effected by following the instructions in reverse order.
Installation and deinstallation do not require tools and may be repeated several times.

Technical Data

	M6	M8	M10	M12	M16
Tightening torque 8.8 [1] [Nm]	10	25	40	80	80

[1] Using lower steel classes, the value are to be reduced accordingly.

Channel thickness [mm]	M6 FZ ≤ [kN]	M8 [2] FZ ≤ [kN]	M10 [2] FZ ≤ [kN]	M12 FZ ≤ [kN]	M16 FZ ≤ [kN]		M6 FQ ≤ [kN]	M8 FQ ≤ [kN]	M10 [2] FQ ≤ [kN]	M12 FQ ≤ [kN]	M16 FQ ≤ [kN]
1.5	3.2	4.7	4.7	7.5	7.5		0.7	1.8	2.9	7.5	6
2.0	3.2	5.8	5.8	10	10		0.9	2.1	3.4	9	6
2.5	3.2	5.8	5.8	11	11		1.0	2.6	4.1	9	6
3.0	3.2	5.8	5.8	13	13		1.1	2.8	4.4	9	6

Note: The permissible load capacities of the channels are to be respected.

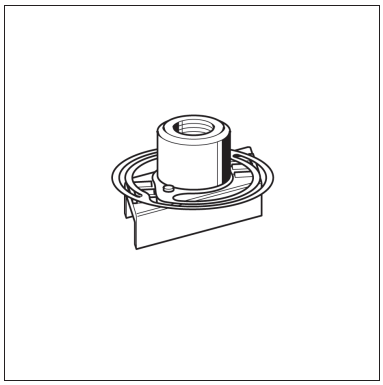
Material:
Nut: Steel class 5.6, electro-galvanised
Spring washer: Sheet metal spring steel, rustproof, 1.4310

Approvals

This product has been awarded the RAL quality mark "pipe supports" and is subject to continuous external monitoring according to RAL GZ-655.

[2] Tested load values 'connection design' according to certificate 2010-07/2010-09.

Type	W [kg]	Quantity [pack]	Part number
CC 41-M6	0.03	50	**180200**
CC 41-M8	0.03	50	**180209**
CC 41-M10	0.03	50	**180218**
CC 41-M12	0.06	50	**182252**
CC 41-M16	0.05	50	**182261**



Adapter NT CC 41 DIN 3015

Group: 1314

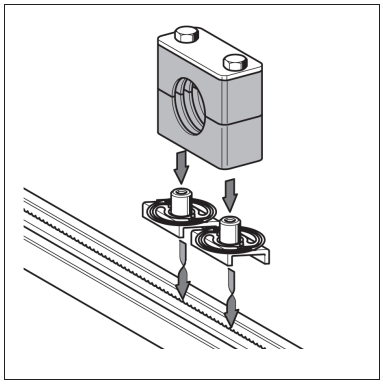
Application

For efficient assembly of fastening clamps DIN 3015 (light and heavy series) to Channels MS 41. Particularly useable for assembly in vertical channels or positions difficult to access, this piece replaces the "3rd hand" and offers following further advantages:

- Compatible with all Sikla Channels MS 41, regardless of the channel's height.
- No getting stuck of screw heads while moving inside the channel.
- Plane fixation without projecting after tightening.

Scope of delivery

Channel nut, spring and thread connection pre-assembled.



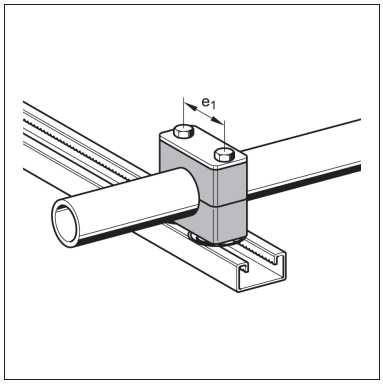
Installation

After inserting the Adapter CC 41 into the channel opening, slightly press on the thread connection. The piece automatically turns into position. Postion the fastening clamp and tighten the screws.
Neither assembly nor removal require a tool and are repeatable as much as is necessary.

Technical Data

Material:

Channel nut, thread connection:	Steel, electro-galvanised
Spring washer:	Spring steel sheet, rustproof



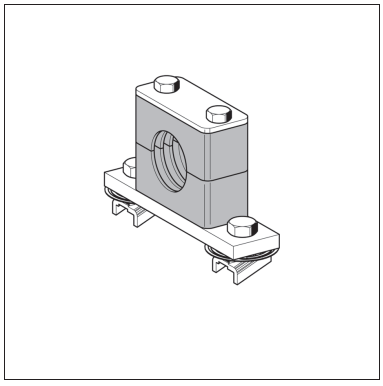
Pipe clamps DIN 3015-1 (series A, light range)

Pipe size	Pipe-outer dia. [mm]	Connection with with	e_1
0	6 to 12	1 x Adapter NT CC 41 M6	
1	6 to 12	2 x Speed Nuts CC 41 M6	20 [1]
2	12.7 to 18	2 x Speed Nuts CC 41 M6	26 [1]
3	19 to 25	2 x Speed Nuts CC 41 M6	33 [1]
4	26.9 to 30	2 x Adapters NT CC 41 M6	40
5	32 to 42	2 x Adapters NT CC 41 M6	52
6	44,5 to 57	2 x Adapters NT CC 41 M6	66
7	57.2 to 76.1	2 x Adapters NT CC 41 M6	94
8	88.9 to 101.8	2 x Adapters NT CC 41 M6	120

Pipe clamps DIN 3015-2 (series C, heavy-load range)

Pipe size	Pipe outer dia. [mm]	Connection with	e_1
1	6 to 18	2 x Speed Nuts CC 41 M10	33 [1]
2	19 to 30	2 x Adapters NT CC 41 M10	45
3	30 to 42	2 x Adapters NT CC 41 M10	60
4	38 to 70	2 x Adapters NT CC 41 M12	90

[1] For these hole distances, the screw plate of the Clamp (see image 4), as well as each two Hexagon bolts and Channel Nuts NT CC 41 are necessary.



Pipe Clamps DIN 3015-3 (series B, double range)

Pipe size	Pipe outer dia. [mm]	Connection with
1	6 to 12	1 x Adapter NT CC 41 M6
2	12.7 to 18	1 x Adapter NT CC 41 M8
3	19 to 25	1 x Adapter NT CC 41 M8
4	26.9 to 30	1 x Adapter NT CC 41 M8
5	32 to 42	1 x Adapter NT CC 41 M8

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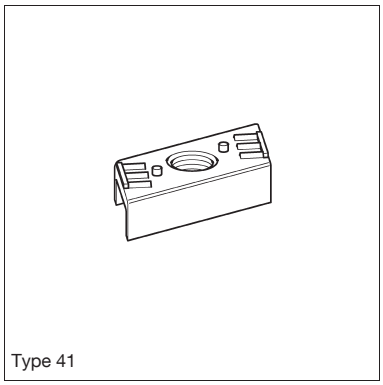
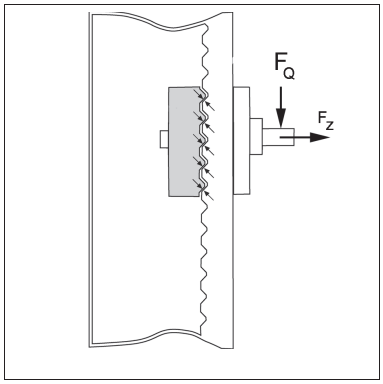
Type	W [kg]	Quantity [pack]	Part number
M6	0.04	100	**110005**
M8	0.04	100	**110016**
M10	0.04	100	**110006**
M12	0.07	100	**110007**



Type 41



Channel Nut NT 41

Group: 1314

Application

Channel Nuts NT 41 are suitable for Channels MS 41.

Technical Data

	M8	M10
Tightening torque 8.8 [1] [Nm]	25	40

[1] Using lower steel classes, the value are to be reduced accordingly.

Channel thickness [mm]	M8 [2] FZ ≤ [kN]	M10 [2] FZ ≤ [kN]		M8 FQ ≤ [kN]	M10 [2] FQ ≤ [kN]
1.5	4.7	4.7		1.8	2.9
2.0	5.8	5.8		2.1	3.4
2.5	5.8	5.8		2.6	4.1
3.0	5.8	5.8		2.8	4.4

Note: The permissible load capacities of the channels are to be respected.

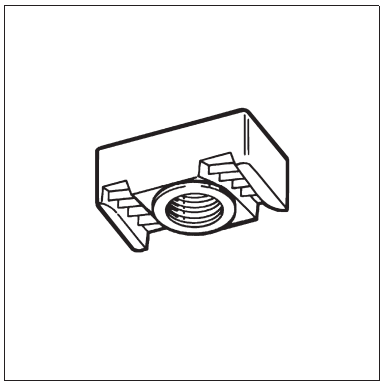
Material: Malleable cast iron, electro-galvanised

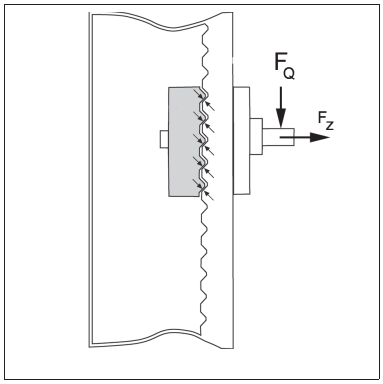
Approvals

This product has been awarded the RAL quality mark "pipe supports" and is subject to continuous external monitoring according to RAL GZ-655.

[2] Tested load values 'connection design' according to certificate 2010-07/2010-09.

Type	W [kg]	Quantity [pack]	Part number
41-M8	0.03	50	**180173**
41-M10	0.03	50	**180182**





Channel Nut NT HZ 41

Group: 1314

Application

For Channels MS 41.

Technical Data

	M8	M10	M12	M16
Tightening torque 8.8 [1] [Nm]	25	40	80	80

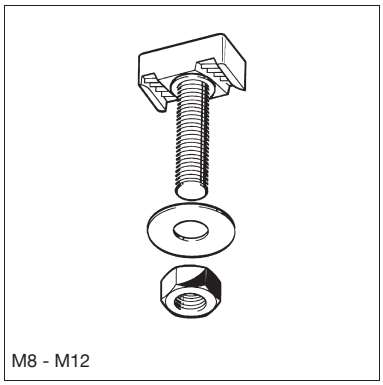
[1] Using lower steel classes, the value are to be reduced accordingly.

Channel thickness [mm]	M8 FZ ≤ [kN]	M10 FZ ≤ [kN]	M12 FZ ≤ [kN]	M16 FZ ≤ [kN]		M8 FQ ≤ [kN]	M10 FQ ≤ [kN]	M12 FQ ≤ [kN]	M16 FQ ≤ [kN]
1.5	6.0	6.0	7.5	7.5		4	5.5	7.5	6
2.0	7.5	7.5	10	10		4	5.5	9	6
2.5	8.5	8.5	11	11		4	5.5	9	6
3.0	8.5	8.5	13	13		4	5.5	9	6

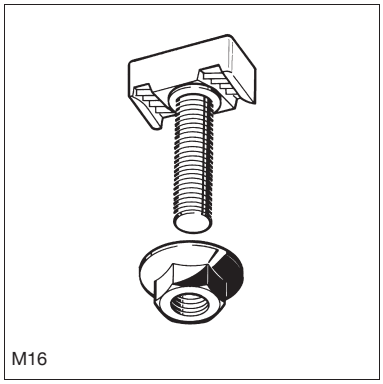
Note: The permissible load capacities of the channels are to be respected.

Material: Steel, cold-forged, electro-galvanised

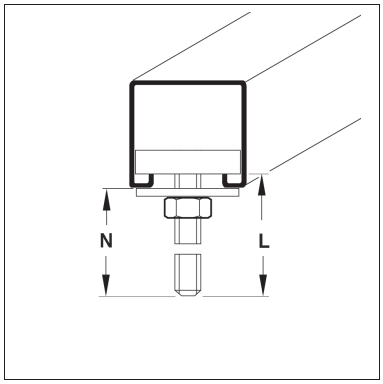
Type	W [kg]	Quantity [pack]	Part number
HZ 41-M8	0.04	50	**151935**
HZ 41-M10	0.03	50	**151944**
HZ 41-M12	0.06	50	**182288**
HZ 41-M16	0.05	50	**182297**



M8 - M12



M16



T-Head Bolt TBO HZ 41

Group: 1311

Application
Suitable for Channels MS 41.

Scope of delivery
With washer and nut (supplied loose).

Technical Data

Type	Tightening moment M_{dmax} [Nm]	Permissible load (tension) [kN]	Permissible axial load in combination with serrated channels[1] [kN]	Permissible bending moment [2] [Nm]
HZ 41 M8	10.0	5.8	1.5	5.0
HZ 41 M10	18.0	9.3	2.5	10.0
HZ 41 M12	32.0	10.0	3.0	17.5
HZ 41 M16	79.0	10.0	3.0	44.5

1) The values indicated refer to the point of application of force being near the top edge of the channel. In cases where tension and lateral tension are encountered, the resultant total load may not be greater than the values given.

2) The effective bending moment may not exceed the permissible maximum torsional moment of the channel.

Material:
Head: Steel class 5.6, cold-forged, electro-galvanised
Bolt: Steel class 4.6, electro-galvanised

Type	Length L [mm]	Available length of thread [mm]	W [kg]	Quantity [pack]	Part number
HZ 41 M 8 x 15	20	15	0.08	50	**151953**
HZ 41 M 8 x 20	25	20	0.08	50	**151962**
HZ 41 M 8 x 25	30	25	0.08	50	**151971**
HZ 41 M 8 x 35	40	35	0.08	50	**151980**
HZ 41 M 8 x 55	60	55	0.08	50	**151999**
HZ 41 M 8 x 75	80	75	0.09	50	**152006**
HZ 41 M 8 x 95	100	95	0.10	50	**152015**
HZ 41 M 10 x 15	20	15	0.09	50	**152024**
HZ 41 M 10 x 20	25	20	0.09	50	**152033**
HZ 41 M 10 x 25	30	25	0.09	50	**152042**
HZ 41 M 10 x 35	40	35	0.09	50	**152051**
HZ 41 M 10 x 55	60	55	0.10	50	**152060**
HZ 41 M 10 x 75	80	75	0.11	50	**152079**
HZ 41 M 10 x 95	100	95	0.12	50	**152088**
HZ 41 M 12 x 20	25	20	0.12	50	**152167**
HZ 41 M 12 x 25	30	25	0.13	50	**152176**
HZ 41 M 12 x 35	40	35	0.14	50	**152185**
HZ 41 M 12 x 55	60	55	0.15	50	**152194**
HZ 41 M 12 x 75	80	75	0.16	50	**152200**
HZ 41 M 12 x 95	100	95	0.18	50	**152219**
HZ 41 M 16 x 25	30	25	0.15	50	**152228**
HZ 41 M 16 x 35	40	35	0.17	50	**152237**
HZ 41 M 16 x 55	60	55	0.19	50	**152246**
HZ 41 M 16 x 75	80	75	0.22	50	**152255**
HZ 41 M 16 x 95	100	95	0.24	50	**152264**

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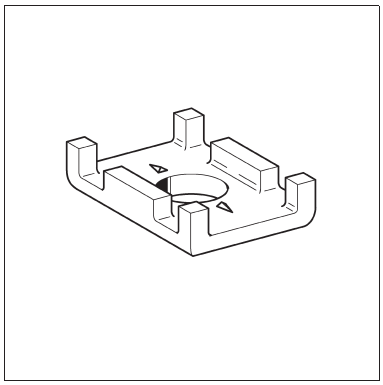
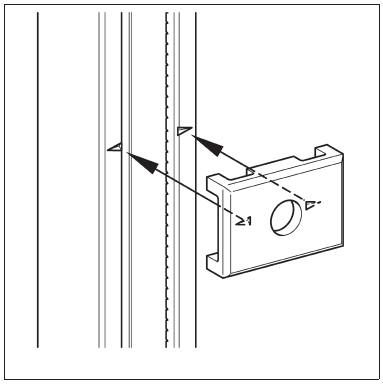
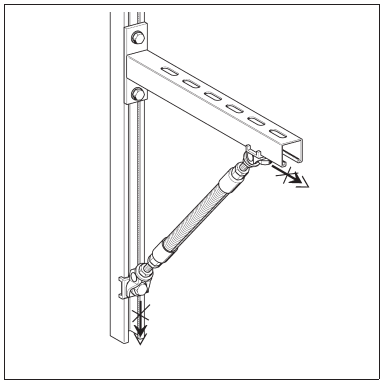






Holding Bracket HK 41

Group: 1327

Application

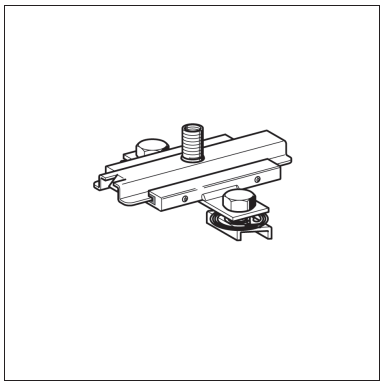
Safety element for Sikla Channels to be used instead of simple washers. The Holding Bracket prevents the edges along the opening of the channels from bending, and ensures optimum load distribution. When loads are imposing along the channels, 41 Holding Brackets provide for additional safety due to embossed teeth, which penetrate the channel. Suitable for single and double channels.

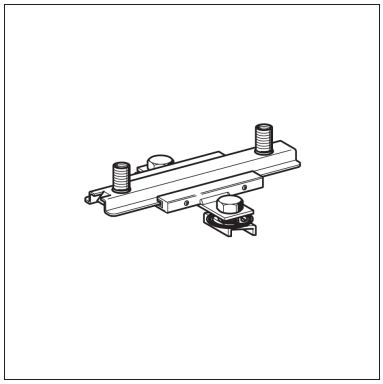
Special blanking guarantees high security and shear force after achieving form closure, especially for screwed through connecting elements.

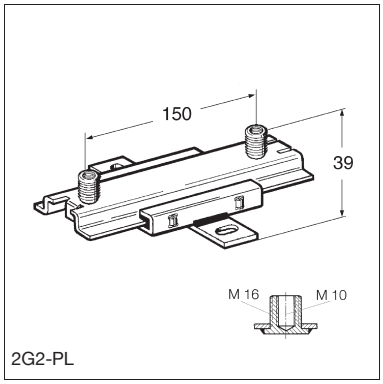
Technical Data

Material: Cast iron, electro-galvanised

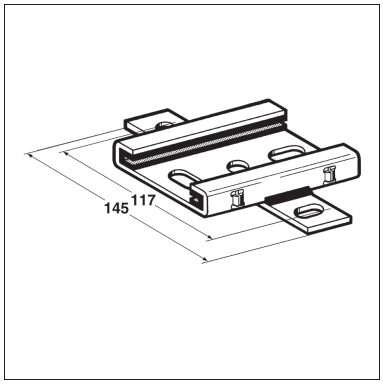
Type	Suitable for Sikla channels of width [mm]	Bore [mm]	W [kg]	Quantity [pack]	Part number
41/10	41	11	0.07	50	**178247**
41/12	41	13	0.07	50	**178256**
41/16	41	17	0.07	50	**178265**







2G2-PL



Slide Set GS CC - 2G/1

Group: 1336

Application

Slide Set for single and double mounting of mechanical equipment to be used on Sikla Channels, brick or concrete walls and on bearers.
To be used preferably in combination with Sikla Pipe Clamps Ratio S and Stabil D-3G.
Various connection options with these pipe clamps ranging between M10 and R1".
For adapters for these connection options, see Adapter AD f/f in chapter "Pipe Clamps and Accessories".
Slide rails in polyamide, glass fibre reinforced.

Scope of delivery

Slide Set incl. pre-assembled CC-component.

Installation

Locking in the channel by exerting slight pressure on the bolt head, then tighten - the job is done!

Technical Data

Permissible load for ceiling mounting:	0.6 kN
Permissible load for floor mounting:	1.2 kN
Lever $L_{max:}$	300 mm
Max. sliding distance Type 2G-PL:	85 mm
Max. sliding distance Type 2G2-PL:	140 mm
Temperature (permanent exposure):	130°C
Static friction coefficient $\mu_{0:}$	0.18
Sliding friction coefficient μ:	0.14

Material:
Metal components: Steel, electro-galvanised

Adm. load FZ * under stress of fire

FWD 30 [N]	FWD 60 [N]	FWD 90 [N]	FWD 120 [N]
≤ 600	≤ 430	≤ 280	≤ 200

FZ = max. adm. tensile load

* The load capacity of the connecting elements used is to be respected, this applies in particular under stress of fire.

Type	W [kg]	Quantity [pack]	Part number
CC - 2G-PL	0.64	25	**191711**
CC - 2G2-PL	0.71	25	**191729**

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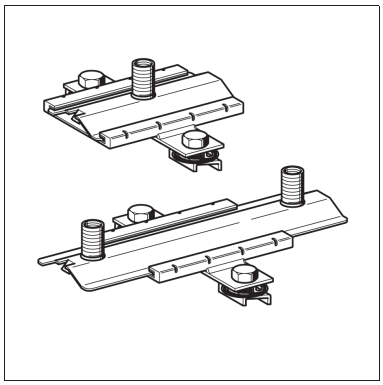
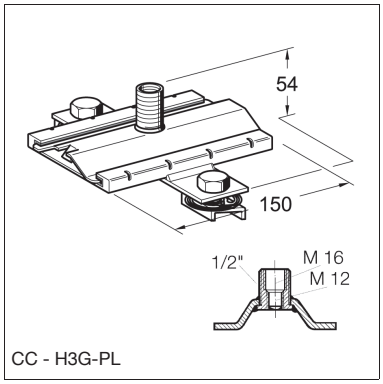
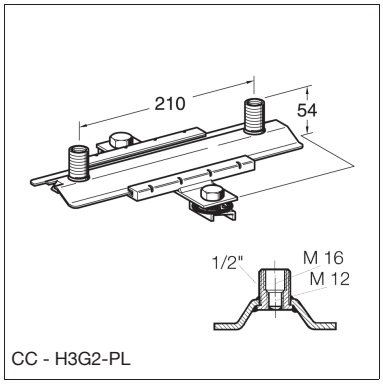
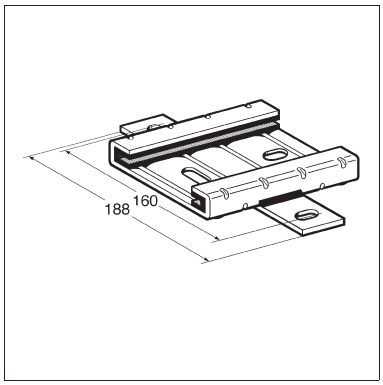




CC - H3G-PL



CC - H3G2-PL



Slide Set GS CC - H3G-PL

Group: 1336

Application

Heavy-duty Slide Set for plant construction to be used on Sikla Channels, brick or concrete walls and on bearers.
To be used preferably in combination with pipe clamps Stabil D-3G, Ratio S and Chilled Water Clamp SKS.
Various connection options of the pipe clamp depending on the respective load: M12, M16. In combination with $^1/_2$"-adapters (see Adapter f/f) there are even further possibilities.
Especially suitable for ceiling and floor mounting solutions and as a guide for rising pipes.
Sound absorption due to slide rails in PPS glass fibre reinforced.

Scope of delivery

Slide Set incl. pre-assembled CC-elements.

Installation

Locks automatically in the channel by pushing down the the bolt head, tighten - that's it!
For pipes of NB 100 or larger having to be spaced at a distance from the Slide Set, or under conditions of reversed bending stress, the 3G triple thread nut is to be secured by screwing on a $^1/_2$" Locking Nut.

Technical Data

Permissible load for ceiling mounting:	5.0 kN
Permissible load for floor mounting:	9.0 kN
Maximum lever arm distance $L_{max:}$	400 mm
Max. sliding distance	
CC - H3G-PL:	100 mm
CC - H3G2-PL:	135 mm
Temperature range (permanent exposure):	130°C
Static friction coefficient $\mu_{0:}$	0.18
Sliding friction coefficient μ:	0.14

Material:
Metal components: Steel, electro-galvanised

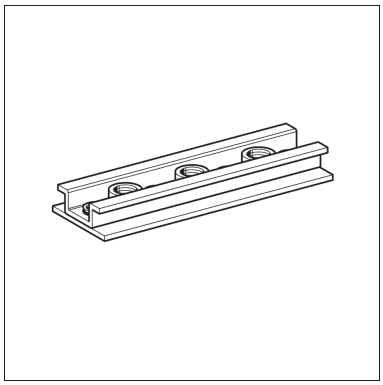
Adm. load FZ * under stress of fire

FWD 30 [N]	FWD 60 [N]	FWD 90 [N]	FWD 120 [N]
≤ 1.000	≤ 540	≤ 360	≤ 260

FZ = max. adm. tensile load

* The load capacity of the connecting elements used is to be respected, this applies in particular under stress of fire.

Type	W [kg]	Quantity [pack]	Part number
CC - H3G-PL	1.61	10	**191747**
CC - H3G2-PL	1.95	10	**191738**

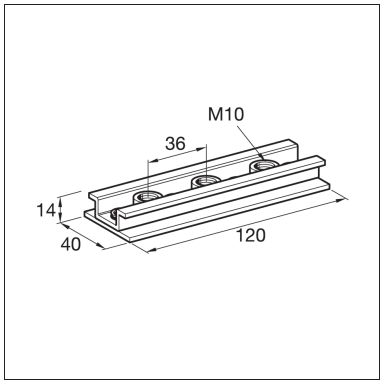


Slide Element GS 41

Group: 1336

Application

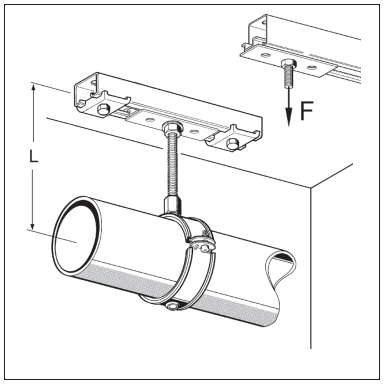
Slide element for use in Sikla Channels MS 41. For single and, using a Tandem Connector, double mounting options.
The sliding distance is determined by the length of the rail. Holding Brackets are to be used for securing the slide element. Alternatively, the Sikla Channel Holder SH may be used.
Any option in combination with Sikla Pipe Clamps Ratio S and Stabil D-3G may be realised.
Various connection options with pipe clamps in the range between M12 and R1". For these connection options, the corresponding Mounting Plate could be screwed directly with the slide element by means of bolts M10 x 20.
Suitable for ceiling and floor mounting solutions and as a guide for rising pipes.



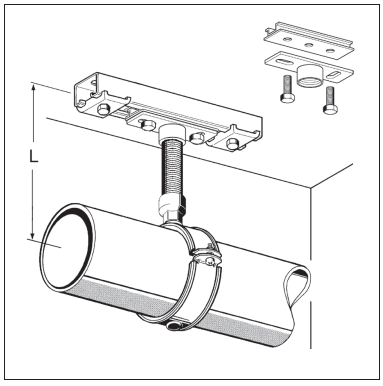
Technical Data

Permissible load overhead mounting:	
Single mounting:	6 kN
Double mounting:	8 kN
The permissible load capacity of the channel has to be respected.	
Permissible load floor mounting:	
Single mounting/Double mounting:	4 kN
Single mounting with mounting plate:	8 kN
Lever arm L_{max} for single mounting:	350 mm
Static friction coefficient μ_0 :	0.16
Sliding friction coefficient μ:	0.14
Material:	Steel, electro-galvanised

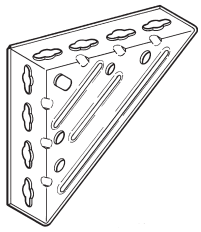
The permissible bending moment of the connection elements (threaded rod or threaded tube) may restrict the application!



Type	Thread connection	W [kg]	Quantity [pack]	Part number
41 - M10	M10	0.18	10	**190658**



Support Bracket WK



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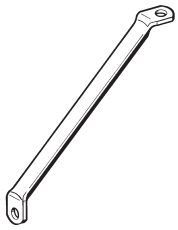
Tie Rod STR



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Spacing Nut DIS So-WK

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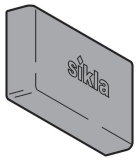
End Cap ADK WK



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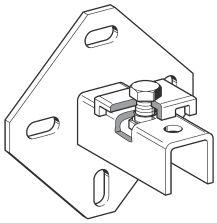
End Support WBD



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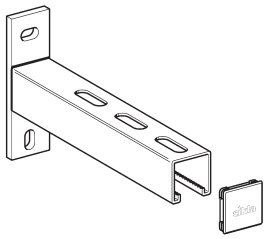
Cantilever Bracket AK



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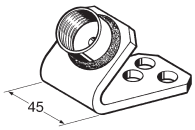
Socket Angle ST



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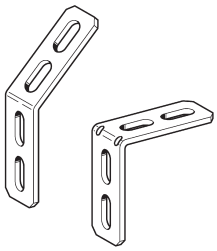
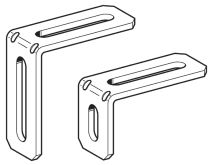
Fixing Bracket MW



Page **3**-23

Fixing Bracket MW LL



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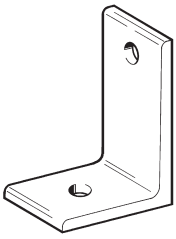
Fixing Bracket MW S



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Support Cone SMD 1

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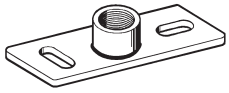
Mounting Plate GPL



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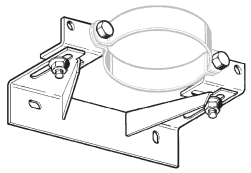
SFK Bracket



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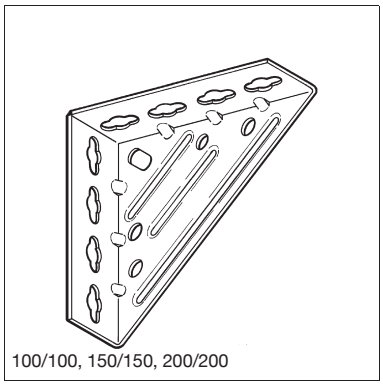
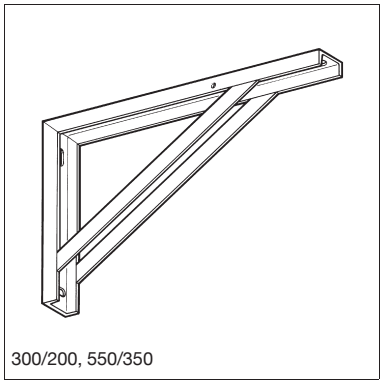
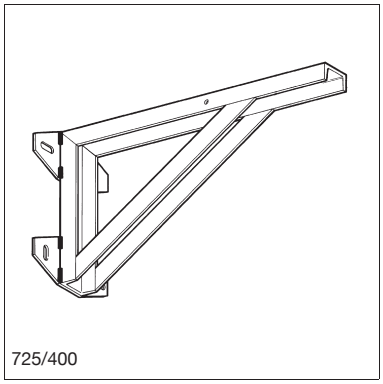
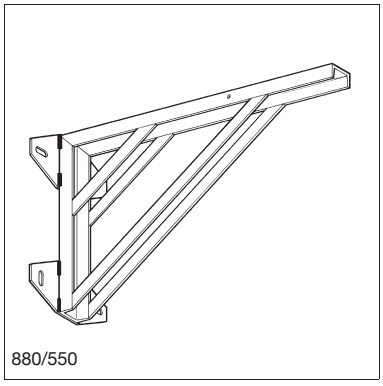

100/100, 150/150, 200/200


300/200, 550/350


725/400


880/550

Support Bracket WK

Group: 1326 / 1826

Application

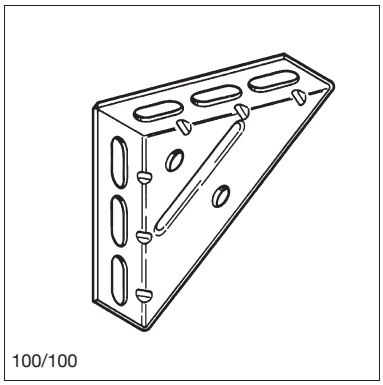
Sikla Support Brackets may be used for wall, floor and overhead pipe installation.
Depending on the site, pipes may lie on the support bracket (U bolt), be arranged in vertical position or be suspended (grub screws).
In combination with bolted-on channels, the support brackets offer a wide range of possibilities for cantilever arrangements. In addition, the load capacity of cross-bars can be increased by fixing them onto Support Brackets.

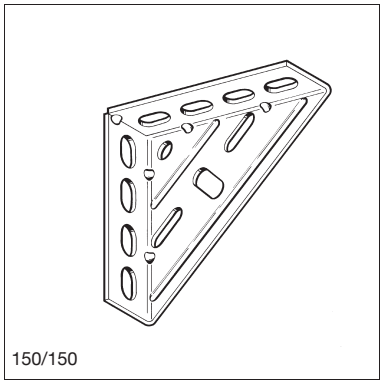
Technical Data

Material: Steel, sizes up to 550/350 electro-galvanised
sizes 725/400 and 880/550 hot-dipped galvanised (hdg)

Details on dimensions and carrying capacities: see following pages.
The permissible loads depicted by the characteristic curves in the graphs are taking into account the reduced load capacity of the stipulated anchors due to reduced centre distances.
Anchors could be used at your own option, but they must respect the mentioned load capacities according to DIBt approval.

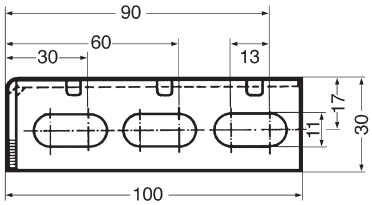
Type	Channel	W [kg]	Quantity [pack]	Part number
100/100	-	0.16	25	**145626**
100/100-40	-	0.21	25	**163921**
150/150	-	0.58	25	**155513**
200/200	-	1.22	10	**118170**
300/200	U 50/25	2.32	1	**118046**
550/350	U 50/25	4.45	1	**145635**
725/400	U 65/42	12.72	1	**151041**
880/550	U 65/42	18.43	1	**151050**

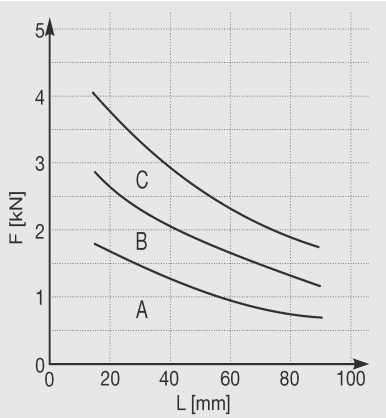

100/100

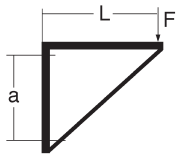

150/150

Support Bracket WK 100/100, 100/100-40 and 150/150

Width of size 100/100-40 is 40 mm.

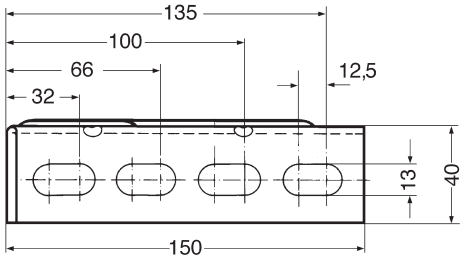


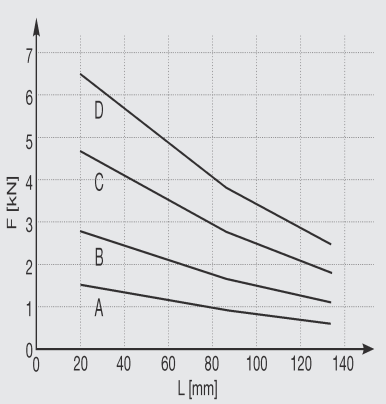


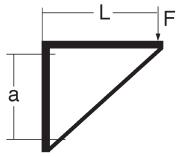


Anchor load classes (top/bottom):
A = 1.5/1.5 kN
B = 2.5/1.5 kN
C = 3.5/1.5 kN
a = 70 mm
f ≤ 1 mm
σ_{perm} ≤ 160 N/mm²

Support Bracket 150/150







Anchor load classes (top/bottom):
A = 1.5/1.5 kN
B = 2.5/1.5 kN
C = 3.5/1.5 kN
D = 6.0/3.5
a = 115 mm
f ≤ 1.5 mm
σ_{perm} ≤ 160 N/mm²

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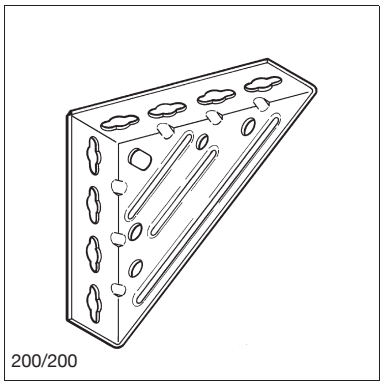
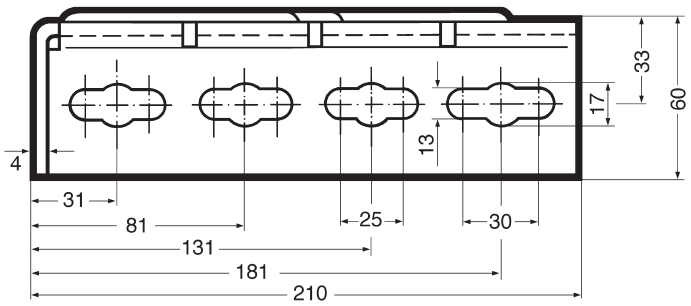
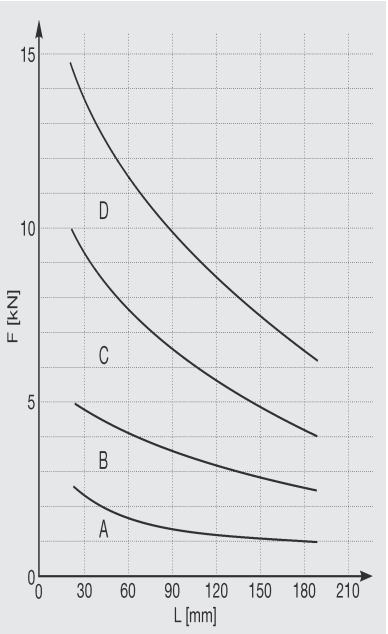
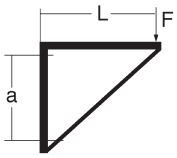


Support Bracket WK 200/200



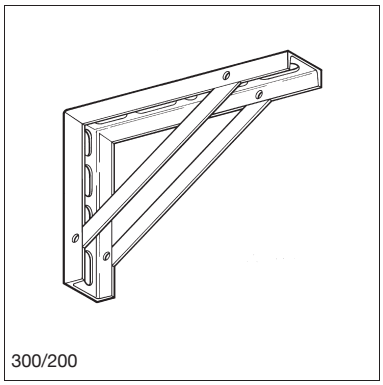




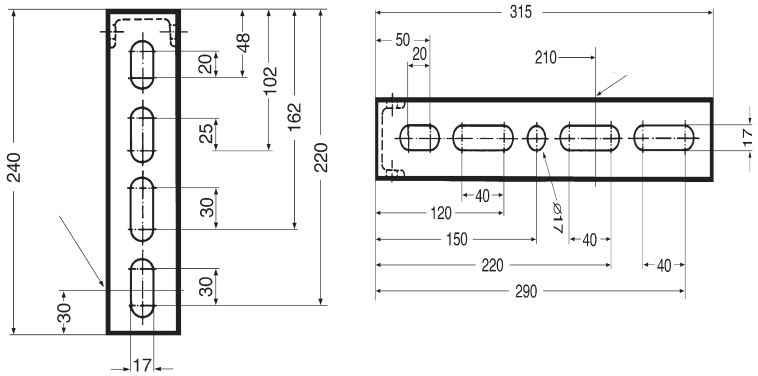
Anchor load classes (top/bottom):

A = 1.5/1.5 kN
B = 3.5/2.5 kN
C = 6.0/6.0 kN
D = 9.0/9.0

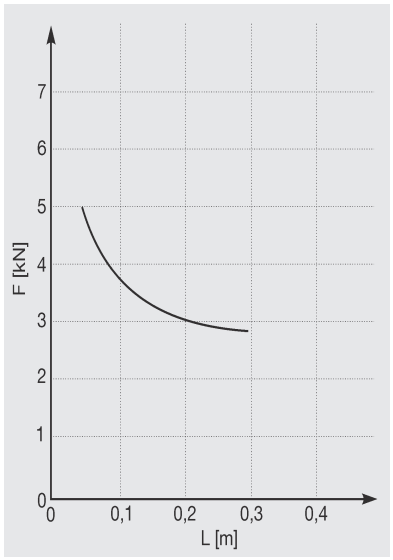
a = 165 mm
f < 2 mm
$\sigma_{perm} \leq 160$ N/mm^2

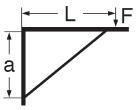

300/200

Support Bracket WK 300/200

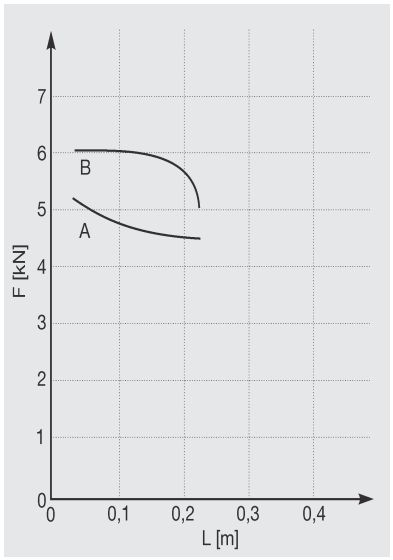


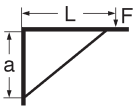
Bore for Tie Rod: Ø 11





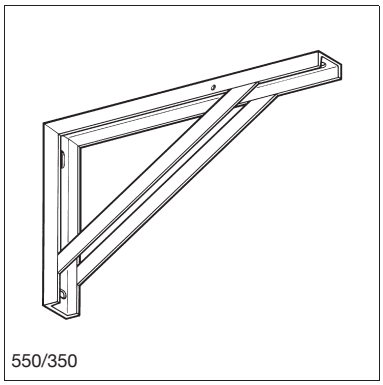
Anchor load classes
(top/bottom):
6.0/2.5 kN
a = 180 mm
f < L/400
$\sigma_{zul} \leq 160$ N/mm²



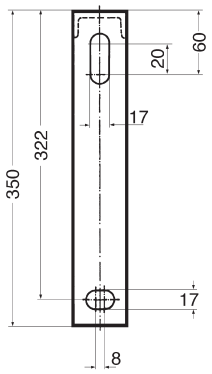


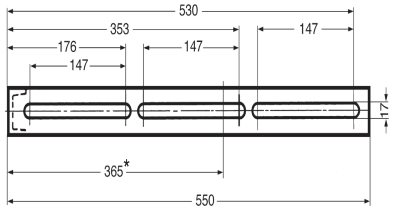
Anchor load classes
(top/bottom):
6.0/3.5 kN
a = 260 mm
f < L/300
$\sigma_{perm} \leq 160$ N/mm²

03/2015

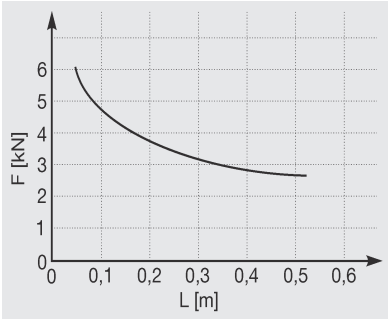

550/350

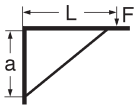
Support Bracket WK 550/350



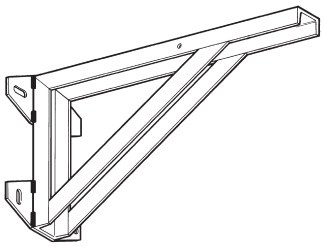


*Bore for Tie Rod: Ø 11



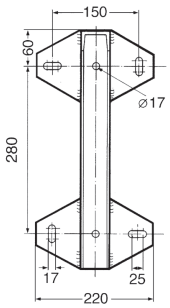


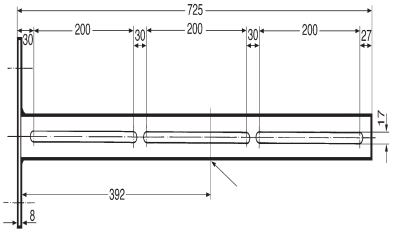
Anchor load classes (top/bottom):
6.0/3.5 kN
a = 280 mm
f < L/400
$\sigma_{perm} \leq 160$ N/mm²



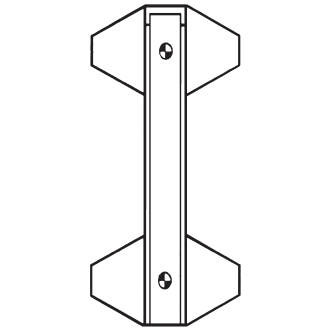
725/400

Support Bracket WK 725/400

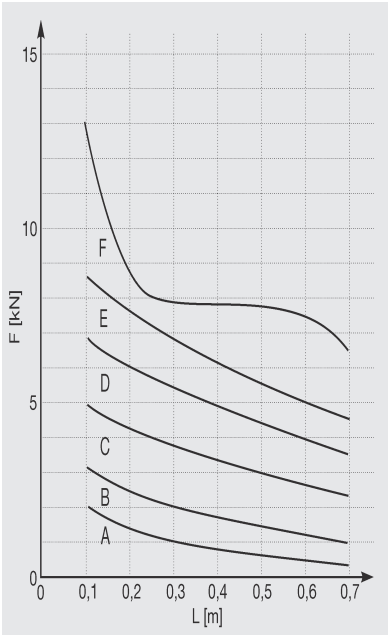


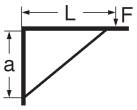


Bore for Tie Rod: Ø 11

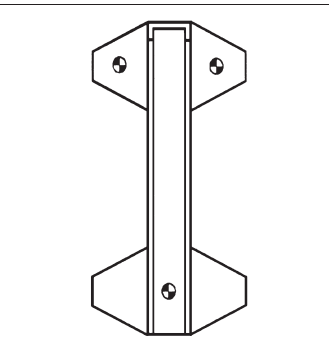


Anchor Arrangement 1





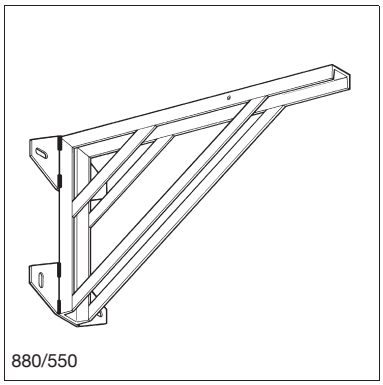
$\sigma_{perm} \leq 160$ N/mm²



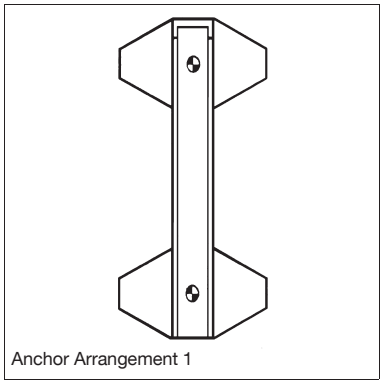
Anchor Arrangement 2

Anchor load classes [kN]

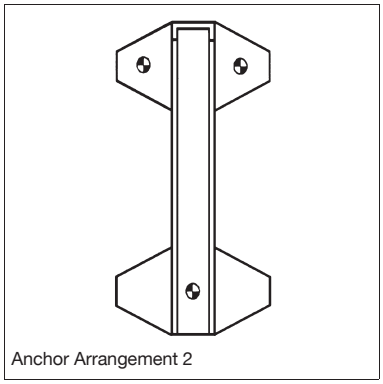
Figure	Arrangement 1	Arrangement 2	f_{max}
A	2 x 1.5 -	- -	L/3000
B	1 x 3.5 1 x 1.5	3 x 1.5 -	L/2000
C	1 x 6.0 1 x 2.5	2 x 3.5 1 x 1.5	L/1000
D	1 x 9.0 1 x 3.5	2 x 6.0 1 x 2.5	L/900
E	1 x 13.0 1 x 3.5	2 x 9.0 1 x 3.5	L/700
F	- -	2 x 13.0 1 x 6.0	L/500



880/550

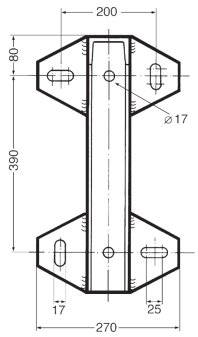


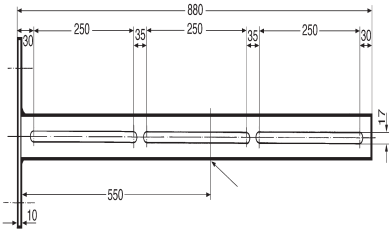
Anchor Arrangement 1



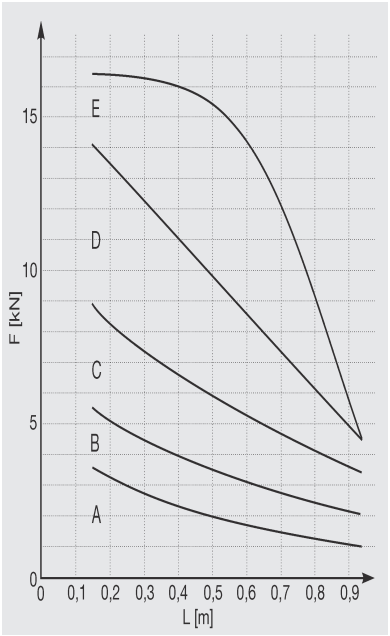
Anchor Arrangement 2

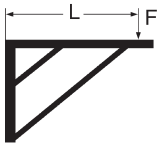
Support Bracket WK 880/550





Bore for Tie Rod: Ø 11

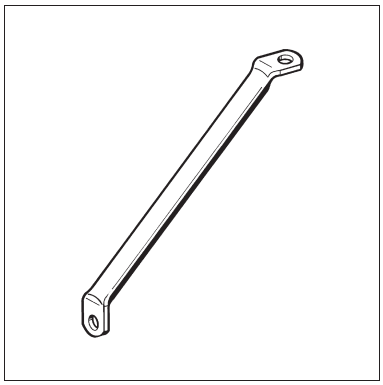


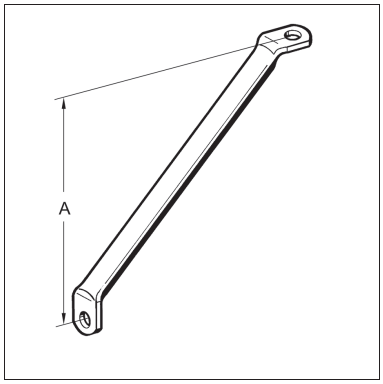


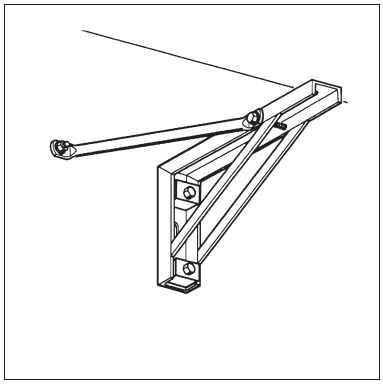
$\sigma_{perm} \leq 160$ N/mm²

Anchor load classes [kN]

Figure	Arrangement 1	Arrangement 2	f_{max}
A	1 x 3.5 1 x 1.5	2 x 2.5 1 x 1.5	L/1000
B	1 x 6.0 1 x 2.5	2 x 3.5 1 x 2.5	L/600
C	1 x 9.0 1 x 3.5	2 x 6.0 1 x 3.5	L/400
D	1 x 13.0 1 x 6.0	2 x 9.0 1 x 6.0	L/300
E	- -	2 x 13.0 1 x 9.0	L/300







Tie Rod STR

Group: 1326

Application

Tie Rods cater for the lateral forces applied to Support Brackets. Such lateral forces always occur when pipes are laid, in particular when sliding elements are fixed onto Support Brackets, and **must** be safely absorbed by means of Tie Rods fixed to the brackets.
Otherwise the Support Brackets run the accute risk of being pulled out of their anchoring components by the forces exerted.

Installation

Fix the Tie Rod to the bore especially made for such purpose at the overhanging leg of the Support Bracket using the recommended hexagon bolt (see table).

Technical Data

Type	Recommended bolt for attachement to Support Bracket	Permissible load (tension and pressure)
300/200	M10 x 80	7.0 kN
550/350	M10 x 80	7.0 kN
725/400	M10 x 100	12.0 kN
880/550	M10 x 100	12.0 kN

Material: Cold-worked tube DIN 2448, hot-dipped galvanised

Type	Pipe	Bore [mm]	W [kg]	Quantity [pack]	Part number
300/200	R 1/2"	11	0.26	10	**125967**
550/350	R 1/2"	11	0.50	10	**125994**
725/400	R 3/4"	11	0.90	10	**151908**
880/550	R 3/4"	11	1.17	10	**151892**

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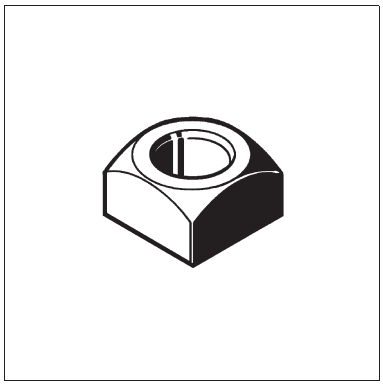


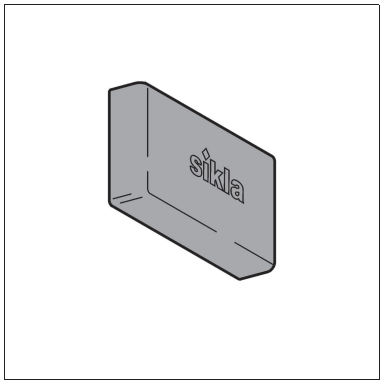
Spacing Nut DIS So-WK

Group: 1327

Application
For safely installing Support Brackets of size 300/200 and 550/350 and optimising load distribution.

Technical Data
Material: Steel, electro-galvanised

Type	a x b [mm]	Height [mm]	Bore [mm]	W [kg]	Quantity [pack]	Part number
So-WK	30 x 30	16	17	0.08	25	**114848**



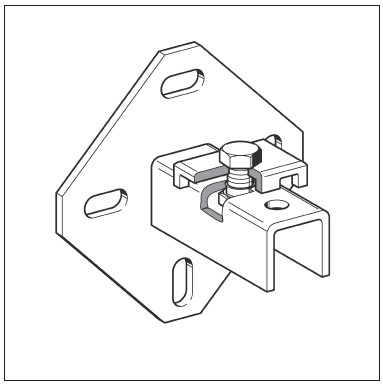
End Cap ADK WK

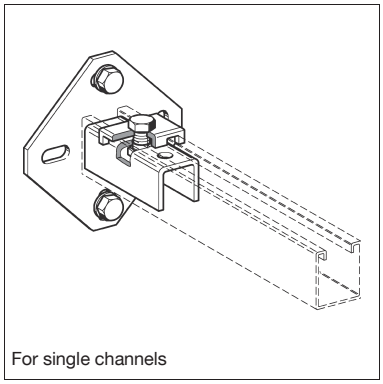
Group: 1304

Application
Safety End Cap for Support Brackets 300/200 and 550/350 made from 50/25 mm profile steel.

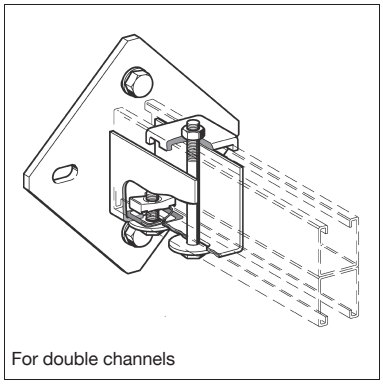
Technical Data
Material: HDPE, yellow

Type	W [kg]	Quantity [pack]	Part number
WK 300 - 550	0.01	50	**101055**

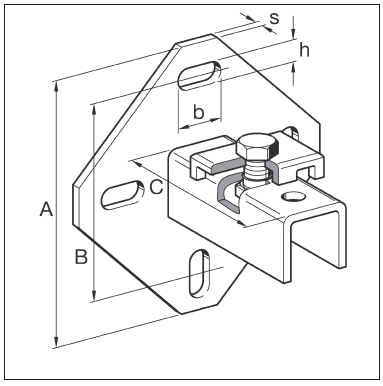




For single channels



For double channels



End Support WBD

Group: 1356

Application

In combination with a channel, End Support WBD is particularly suitable
- for setting up support structures attached to walls, floors and ceilings
- as a base for frame structures made of Sikla Channels.

The generous dimensions and the diamond shape of the mounting plate provide a high bending moment and safely stabilise lateral loads.

Installation

Normally, two bolts grouped opposite to each other and along the load axis are sufficient. Only in exceptional cases (e.g. tall uprights in frameworks) four bolts are required.

Minimum torque values for the hexagon bolts of the 41 Holding Brackets are:

Types	Holding Brackets [pcs]	Bolt for Holding Bracket	Accessories	Torque [Nm]
41/21-31 up to 41/41-45	1	M10	pre-assembled	40
41/52 up to 41-75/75	2	M12	pre-assembled	60
41/21 D up to 41/45 D	1	M10	in loose form	40
41/52 D up to 41-75/75 D	1	M12	in loose form	60

For ceiling mounting under high loads (up to 7.0 kN), we recommend the use of at least one fully traversing bolt for connecting the channel to the End Support WBD (for examples see "Installation Guideline").

Technical Data

Type	Suitable for Sikla Channel	A [mm]	s [mm]	B [mm]	b [mm]	h [mm]	C [mm]
41/21-31	41/21/1.5 - 2.0 41/31/2,0	135	6	100	25	11	95
41/41-45	41/41/2.0 - 2.5 41/45/2.5	135	6	100	25	11	95
41/52	41/52/2.5	170	6	120	25	13	131
41/62	41/62/2.5	170	6	120	25	13	131
41-75/65	41-75/65/3.0	210	8	170	25	13	131
41-75/75	41-75/75/3.0	210	8	170	25	13	131
41/21 D	41/21/1.5 - 2.0 D	135	6	100	25	11	125
41/41-45 D	41/41/2.0 - 2.5 D 41/45/2.5 D	210	8	170	25	13	125
41/52 D	41/52/2.5 D	210	8	170	25	13	135
41/62 D	41/62/2.5 D	255	8	205	25	13	135
41-75/65 D	41-75/65/3.0 D	255	8	205	25	13	135
41-75/75 D	41-75/75/3.0 D	255	8	205	25	13	135

Working load for wall mounting:
See tables on the following pages. The figures apply on wall applications if two bolts of the load class as stated are used.

Working load for ceiling mounting:
The permissible maximum vertical load for ceiling mounting structures fixed by way of at least one traversing bolt (class 8.8) amounts to 7.0 kN

For End Supports WBD for single channels, the following values apply subject to the condition that all included accessories are assembled correctly.

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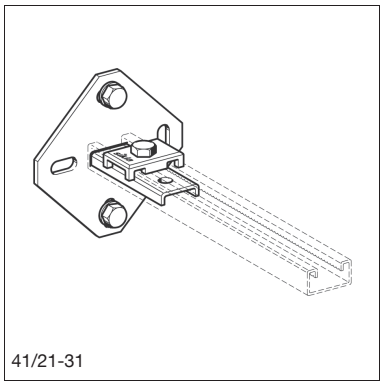
Types	Working load (tension) for ceiling mounting [kN]
41/21-31 up to 41/41-45	2.0
41/52 up to 41-75/75	4.0

Material: Steel, cold-formed, electro-galvanised

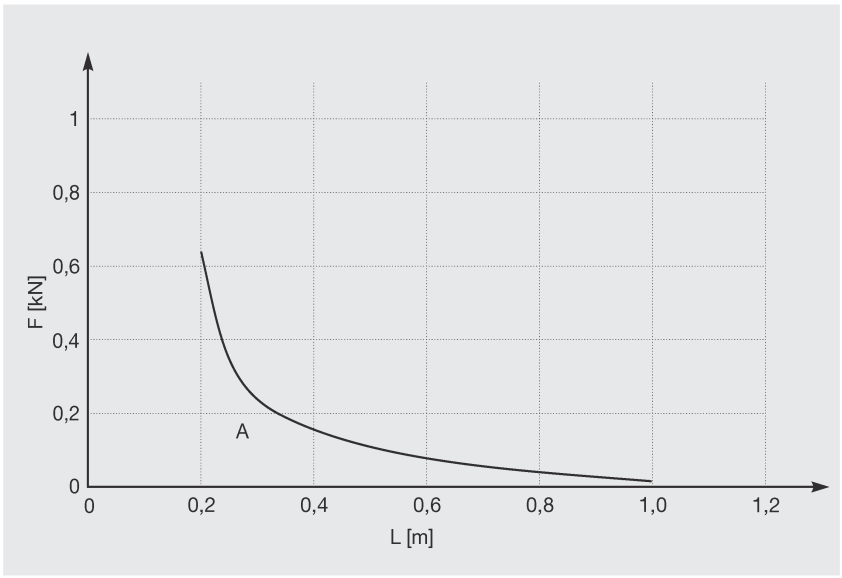
Type	For Sikla Channel	Holding Brackets [number of]	W [kg]	Quantity [pack]	Part number
41/21-31	41/21/2.5	1	0.73	10	**177725**
41/41-45	41/41/2.5; 41/45/3.0	1	0.83	10	**155054**
41/52	41/52/3.0	2	1.44	5	**177734**
41/62	41/62/3.0	2	1.50	5	**155063**
41-75/65	41-75/65/3.0	2	2.15	5	**177743**
41-75/75	41-75/75/3.0	2	2.19	5	**177752**
41/21 D	41/21/2.5 D	1	1.14	5	**146469**
41/41-45 D	41/41/2.5 D; 41/45/3.0 D	1	2.46	5	**106768**
41/52 D	41/52/3.0 D	1	2.86	5	**177761**
41/62 D	41/62/3.0 D	1	4.00	5	**155090**
41-75/65 D	41-75/65/3.0 D	1	4.18	5	**177770**
41-75/75 D	41-75/75/3.0 D	1	4.38	5	**177779**

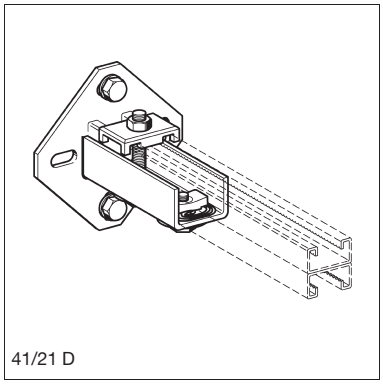


41/21-31

End Support WBD 41/21-31

Load chart only applicable in combination with Channel 41/21/2.0 or 41/31/2.0

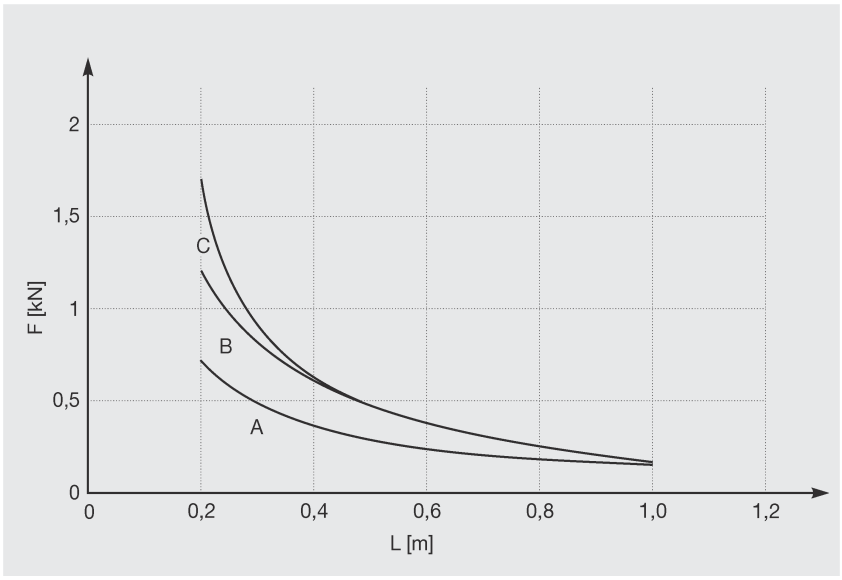




41/21 D

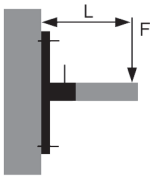
End Support WBD 41/21 D

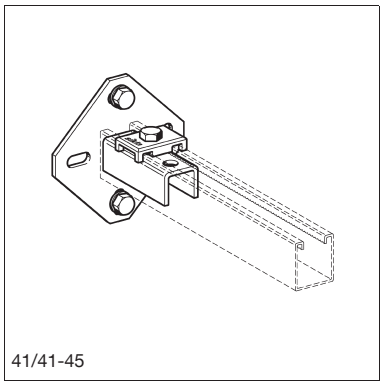
Load chart only applicable in combination with Channel 41/21/2.0 D



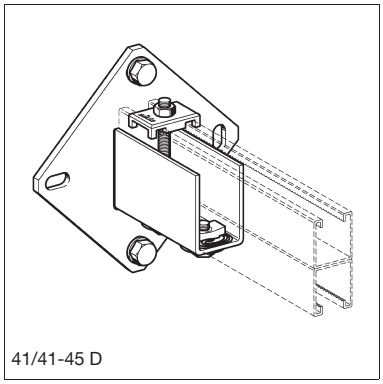
Restrictions
$\sigma_{perm} \leq 160$ N/mm^2
$f_{perm} \leq L/100$ for L > 300 mm
$f_{perm} \leq 3$ mm for L = 200 ... 300 mm

Anchor loads
A = 1.5 kN
B = 2.5 kN
C = 3.5 kN
D = 6.0 kN
E = 9.0 kN





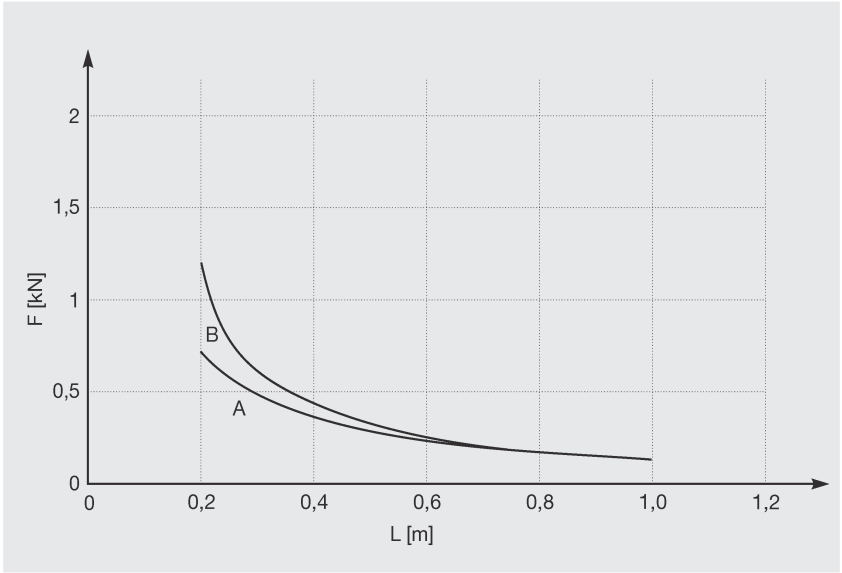
41/41-45



41/41-45 D

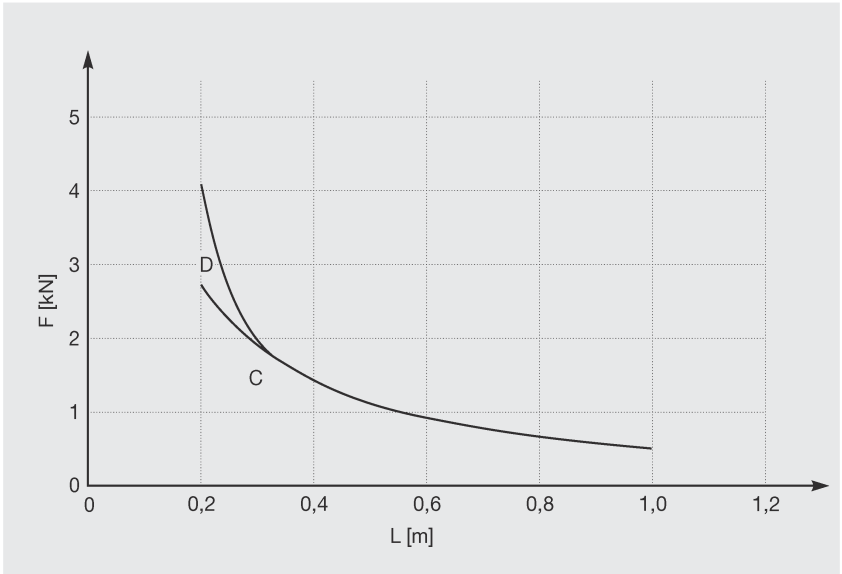
End Support WBD 41/41-45

Load chart only applicable in combination with Channel 41/41/2.5 or 41/45/2.5



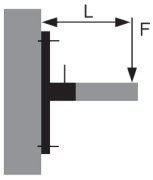
WBD-Halter 41/41-45 D

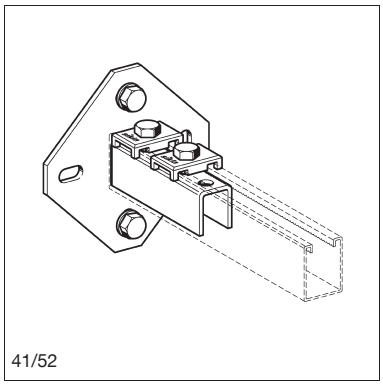
Load chart applicable in combination with Channel 41/41/2.5 D or 41/45/2.5 D



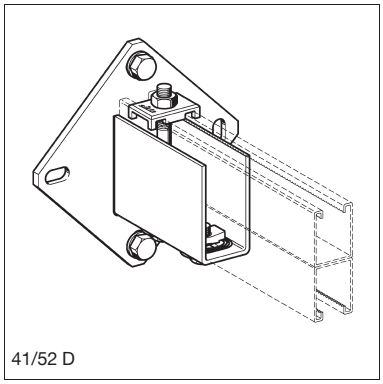
Restrictions
$\sigma_{perm} \leq 160$ N/mm^2
$f_{perm} \leq L/100$ for $L > 300$ mm
$f_{perm} \leq 3$ mm for $L = 200 \ldots 300$ mm

Anchor load classes
A = 1.5 kN
B = 2.5 kN
C = 3.5 kN
D = 6.0 kN
E = 9.0 kN





41/52

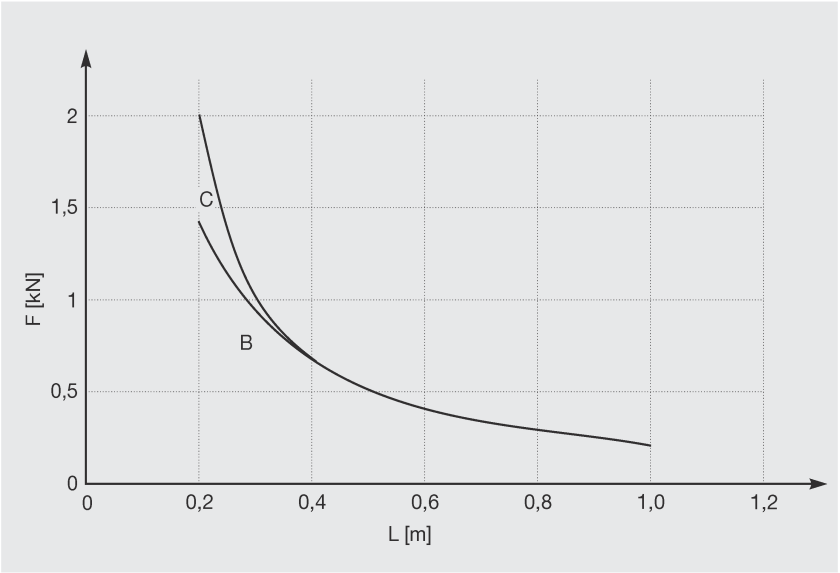


41/52 D

End Support WBD 41/52

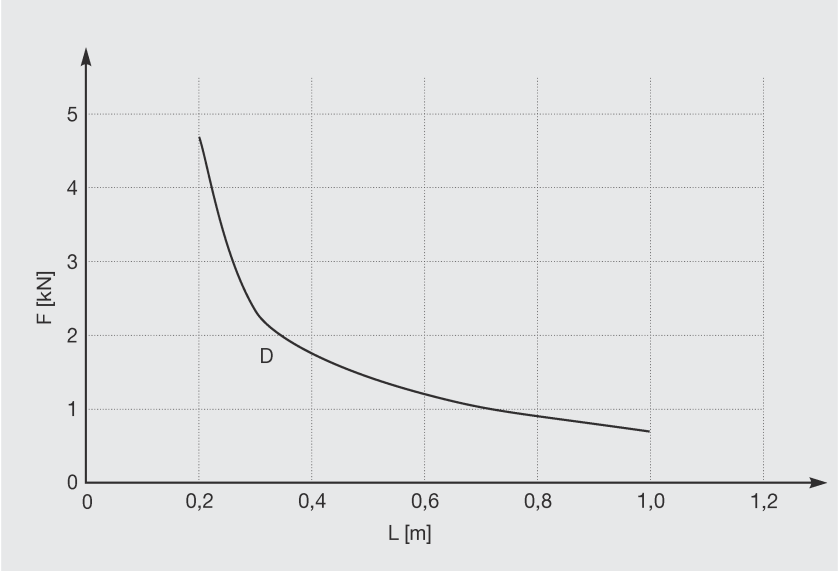
Group: 1356

Load chart applicable in combination with Channel 41/52/2.5



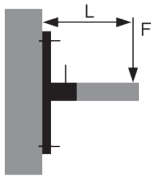
End Support WBD 41/52 D

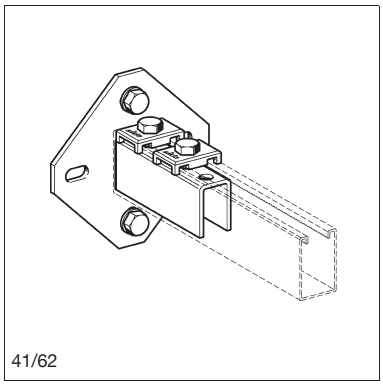
Load chart applicable in combination with Channel 41/52/2.5 D



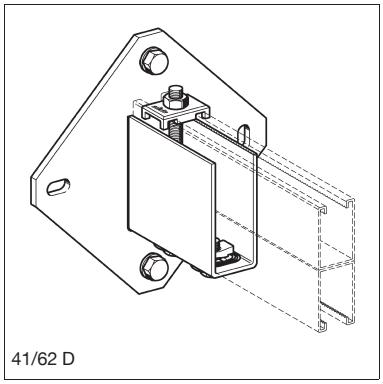
Restrictions
$\sigma_{perm} \leq 160$ N/mm^2
$f_{perm} \leq L/100$ for L > 300 mm
$f_{perm} \leq 3$ mm for L = 200 ... 300 mm

Anchor load classes
A = 1.5 kN
B = 2.5 kN
C = 3.5 kN
D = 6.0 kN
E = 9.0 kN





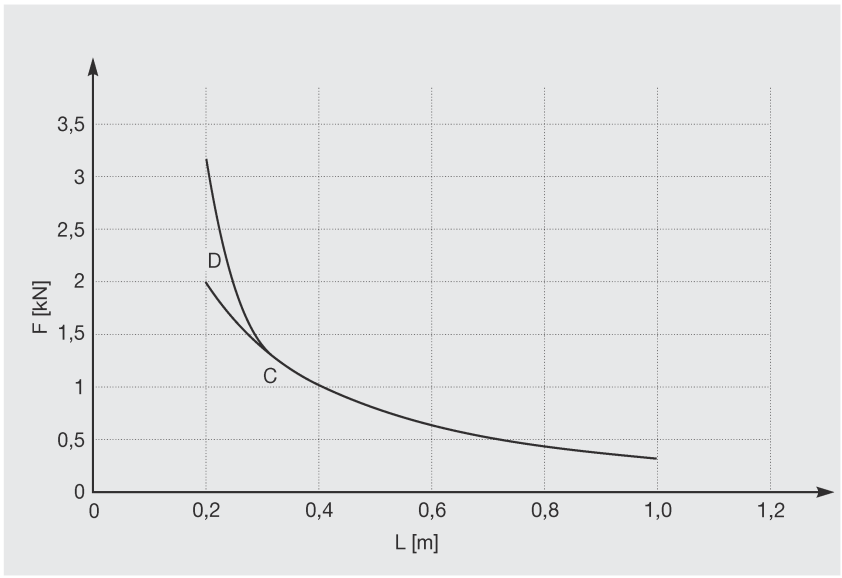
41/62



41/62 D

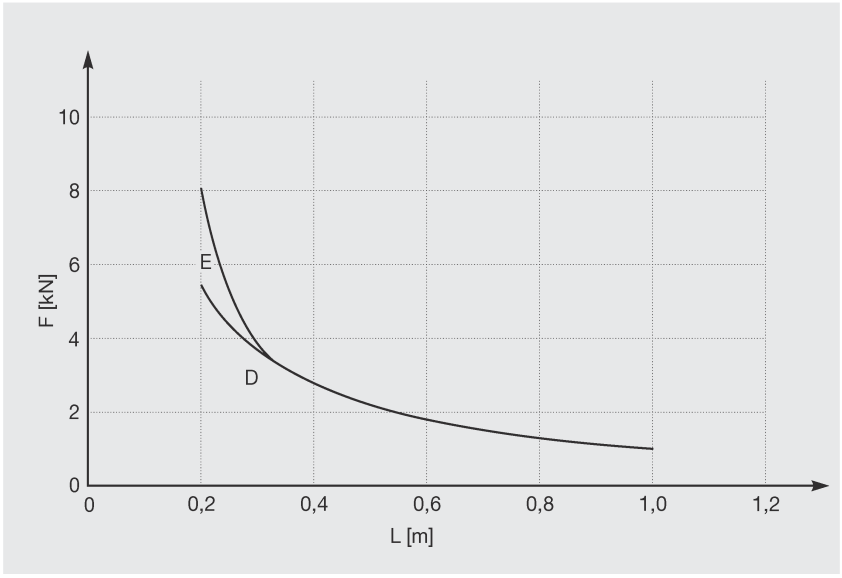
End Support WBD 41/62

Load chart applicable in combination with Channel 41/62/2.5



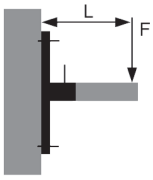
End Support WBD 41/62 D

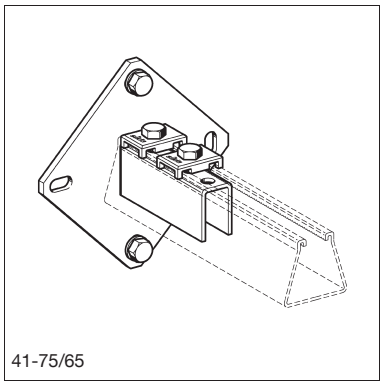
Load chart applicable in combination with Channel 41/62/2.5 D



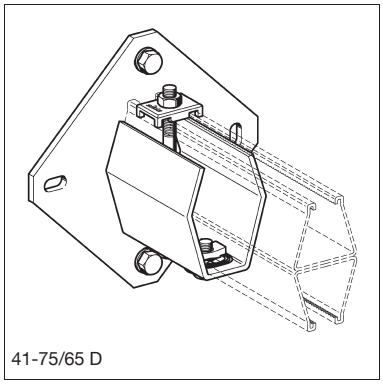
Restrictions
$\sigma_{perm} \leq 160$ N/mm^2
$f_{perm} \leq L/100$ for L > 300 mm
$f_{perm} \leq 3$ mm for L = 200 ... 300 mm

Anchor load classes
A = 1.5 kN
B = 2.5 kN
C = 3.5 kN
D = 6.0 kN
E = 9.0 kN





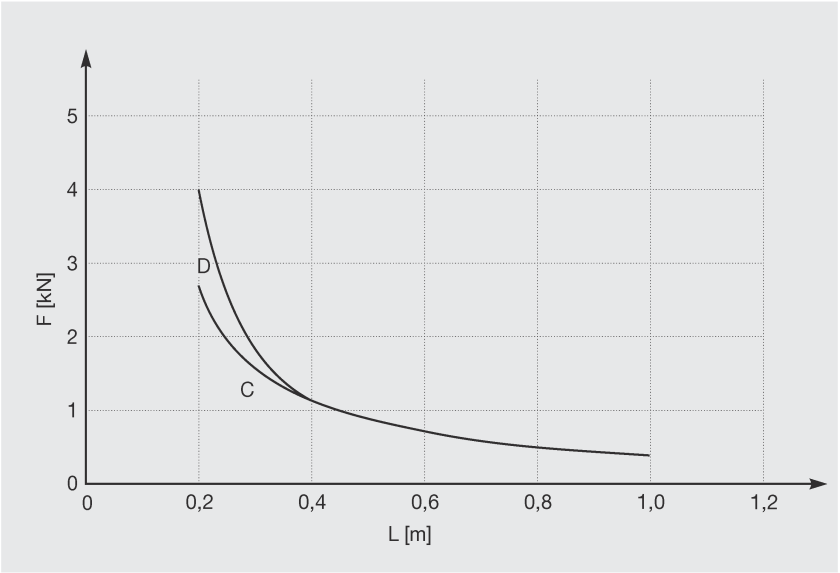
41-75/65



41-75/65 D

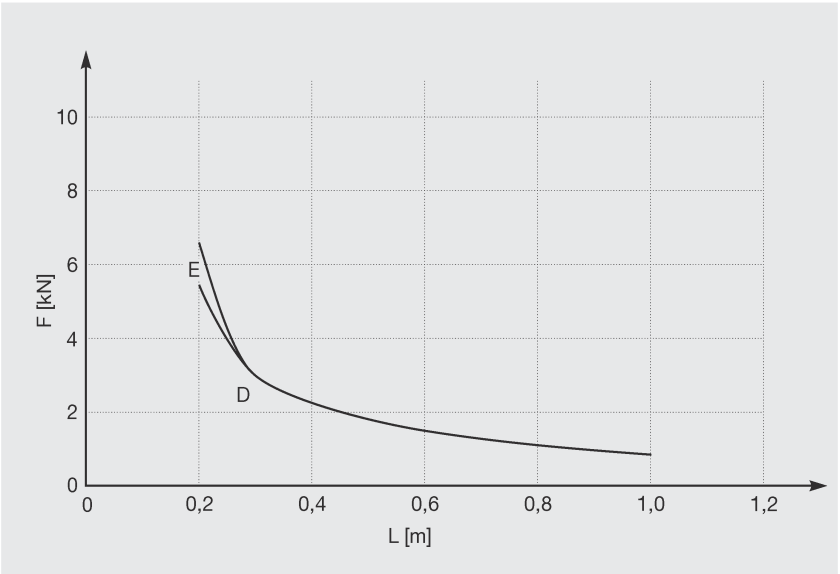
End Support WBD 41-75/65

Load chart applicable in combination with Channel 41-75/65/3.0



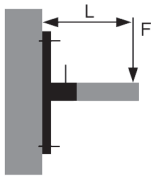
End Support WBD 41-75/65 D

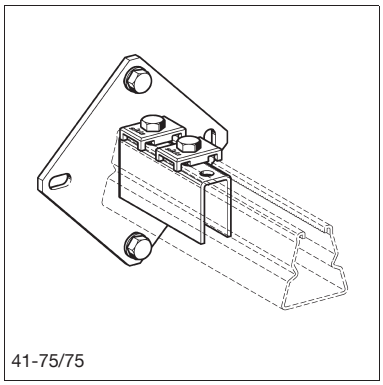
Load chart applicable in combination with Channel 41-75/65/3.0 D



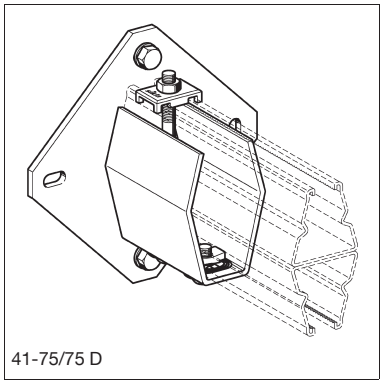
Restrictions
$\sigma_{perm} \leq 160$ N/mm^2
$f_{perm} \leq L/100$ for L > 300 mm
$f_{perm} \leq 3$ mm for L = 200 ... 300 mm

Anchor load classes
A = 1.5 kN
B = 2.5 kN
C = 3.5 kN
D = 6.0 kN
E = 9.0 kN





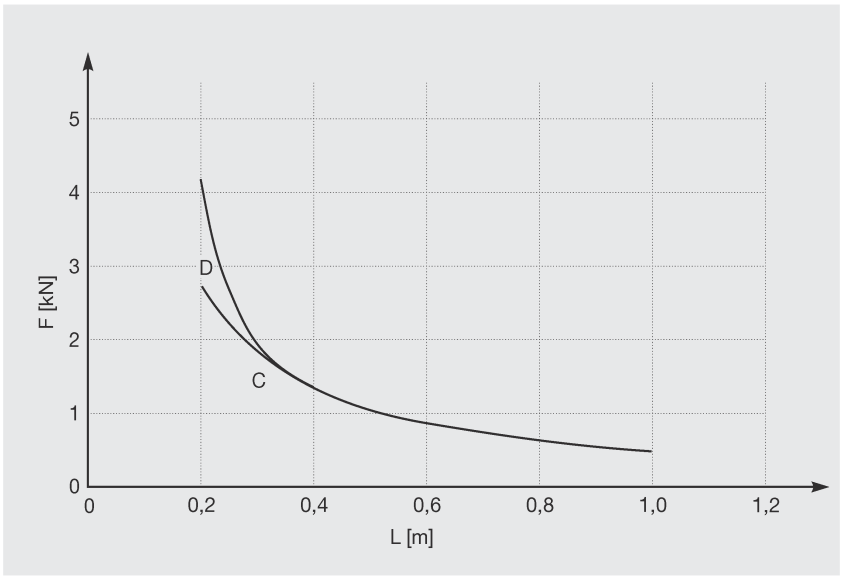
41-75/75



41-75/75 D

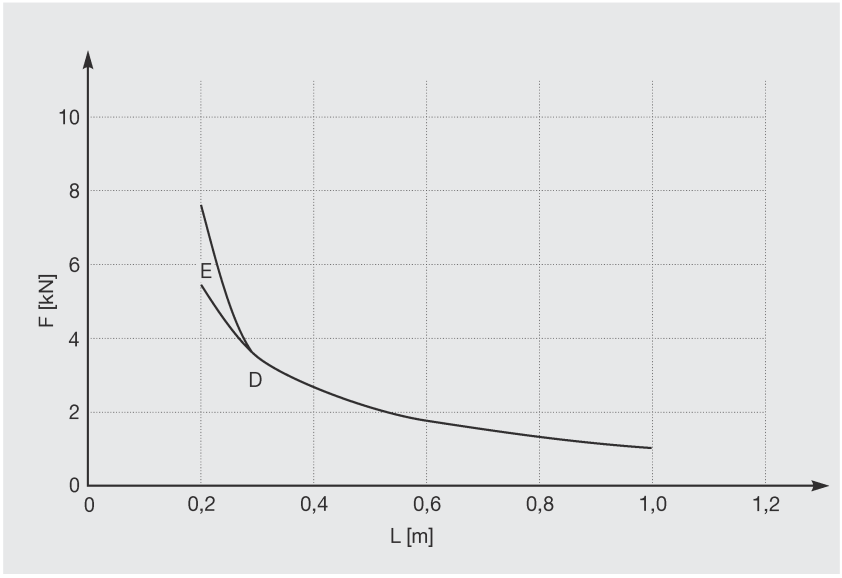
End Support WBD 41-75/75

Load chart applicable in combination with Channel 41-75/75/3.0



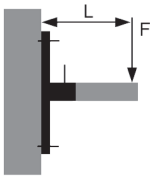
End Support WBD 41-75/75 D

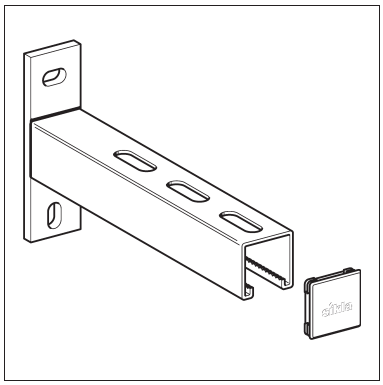
Load chart applicable in combination with Channel 41-75/75/3.0 D



Restrictions
$\sigma_{perm} \leq 160$ N/mm^2
$f_{perm} \leq L/100$ for L > 300 mm
$f_{perm} \leq 3$ mm for L = 200 ... 300 mm

Anchor load classes
A = 1.5 kN
B = 2.5 kN
C = 3.5 kN
D = 6.0 kN
E = 9.0 kN





Cantilever Bracket AK

Group: 1354 / 2754

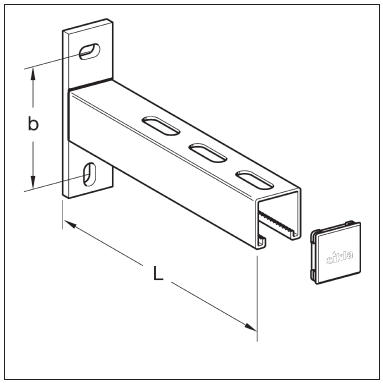
Application

Ready-to-use brackets mainly for mounting pipes to walls.
For further options, e.g. double-versions see chapter "HCP Products"

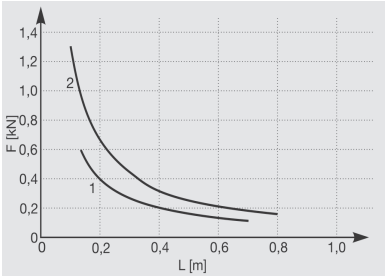
Installation

When used in combination with slide elements, a Tie Rod is absolutely essential for absorbing the forces running along the centre line of the pipe.
For cantilever lengths ≥ 500 mm we recommend the integration of a prop-up (see drawing below).

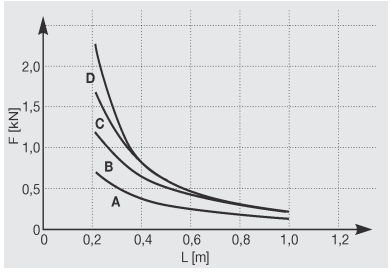
Technical Data



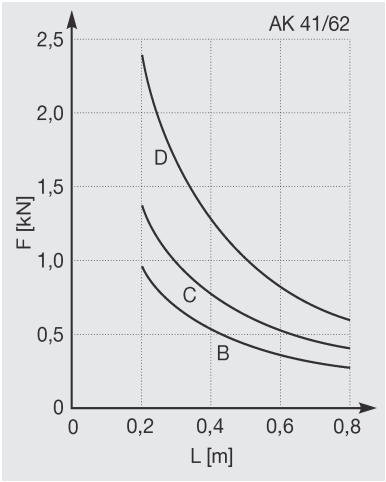
1 = Type 27/25
2 = Type 27/37

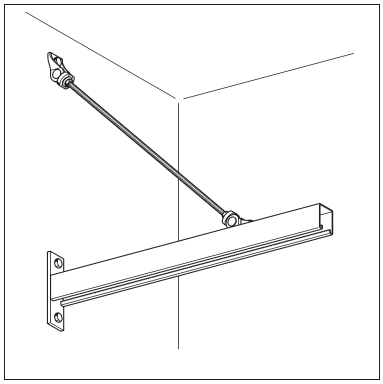


Type 41/41

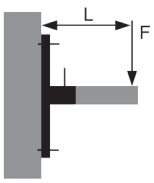


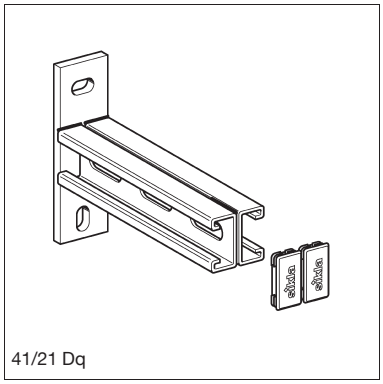
Type 41/62





Anchor load classes
A = 1.5 kN
B = 2.5 kN
C = 3.5 kN
D = 6.0 kN




41/21 Dq

$\sigma_{perm} \leq 160$ N/mm²
$f_{perm} \leq L/150$ for $L > 450$ mm
$f_{perm} \leq 3$ mm for $L \leq 450$ mm

Material: Steel, electro-galvanised, Type Dq = hot dipped galvanised

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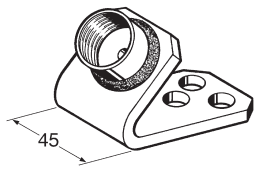
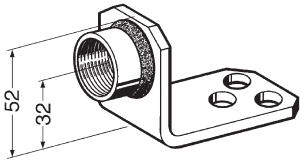
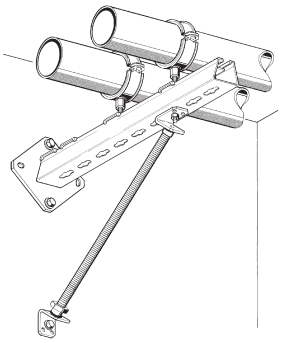
Type	L [mm]	Wall plate [mm]	b [mm]	Dimensions of elongated hole [mm]	W [kg]	Quantity [pack]	Part number
27/25 - 200	203	88 x 30 x 6	64	10 x 15	0.25	25	**112326**
27/25 - 250	253	88 x 30 x 6	64	10 x 15	0.29	25	**112327**
27/25 - 300	303	88 x 30 x 6	64	10 x 15	0.34	25	**112328**
27/25 - 500	503	88 x 30 x 6	64	10 x 15	0.49	25	**112329**
27/25 - 700	703	88 x 30 x 6	64	10 x 15	0.65	1	**112330**
27/37 - 300	304	88 x 30 x 6	64	10 x 15	0.43	25	**111458**
27/37 - 500	504	88 x 30 x 6	64	10 x 15	0.64	25	**111459**
27/37 - 700	704	88 x 30 x 6	64	10 x 15	0.84	1	**111460**
27/37 - 800	804	88 x 30 x 6	64	10 x 15	0.96	1	**111461**
41/41 - 200	196	134 x 40 x 8	100	13 x 18	0.68	10	**115609**
41/41 - 260	258	134 x 40 x 8	100	13 x 18	0.81	10	**153973**
41/41 - 320	321	134 x 40 x 8	100	13 x 18	0.92	10	**115618**
41/41 - 445	446	134 x 40 x 8	100	13 x 18	1.16	10	**115627**
41/41 - 570	571	134 x 40 x 8	100	13 x 18	1.41	10	**115636**
41/41 - 820	821	134 x 40 x 8	100	13 x 18	1.89	1	**149268**
41/41 - 1010	1008	134 x 40 x 8	100	13 x 18	2.05	1	**149277**
41/62 - 320	321	134 x 40 x 8	100	13 x 18	1.42	10	**113296**
41/62 - 445	446	134 x 40 x 8	100	13 x 18	1.76	10	**113297**
41/62 - 570	571	134 x 40 x 8	100	13 x 18	2.25	10	**113298**
41/62 - 820	821	134 x 40 x 8	100	13 x 18	3.05	1	**113299**
41/62 - 1010	1008	134 x 40 x 8	100	13 x 18	3.59	1	**113300**
27/25 q - 300	303	88 x 30 x 5	64	10 x 15	0.34	25	**112366**
41/21 Dq - 320	321	134 x 40 x 8	100	13 x 18	1.20	10	**180164**
41/21 Dq - 570	571	134 x 40 x 8	100	13 x 18	1.95	10	**190424**



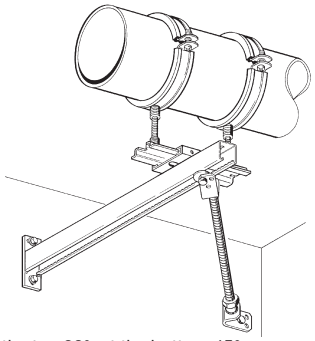
Type 45° - all bores 13 for M12



Type 90° - all bores 13 for M12



2 x Type 45°



At the top 90°, at the bottom 45°

Socket Angle ST

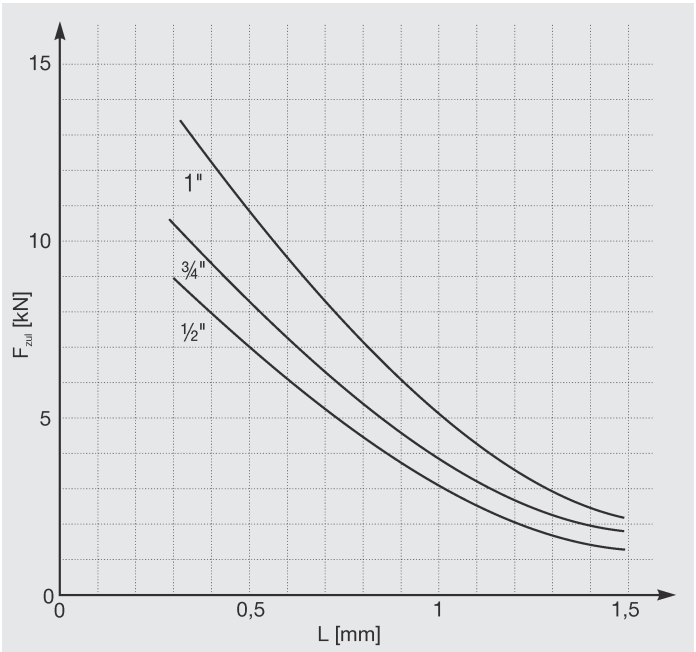
Group: 1355

Application

Base element for setting up horizontal and vertical tie rods on site.

Technical Data

To determine the load capacity of a cantilever construction, please add the permissible load of the bracket with the permissible loads mentioned in the table "Socket Angle".



Material: Steel cold-worked, electro-galvanised

Type	W [kg]	Quantity [pack]	Part number
½" - 45	0.26	25	**143828**
¾" - 45	0.27	25	**143837**
1" - 45	0.29	25	**143846**
½" - 90	0.26	25	**148744**

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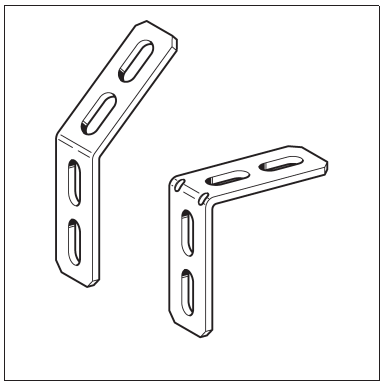
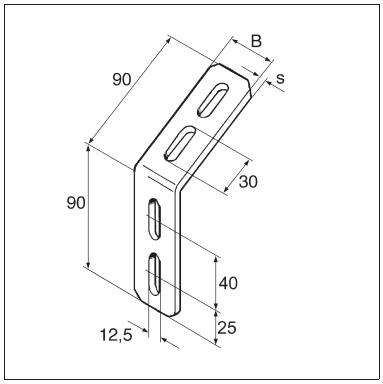
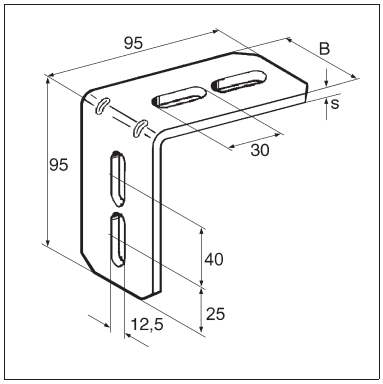






Fixing Bracket MW

Group: 1326

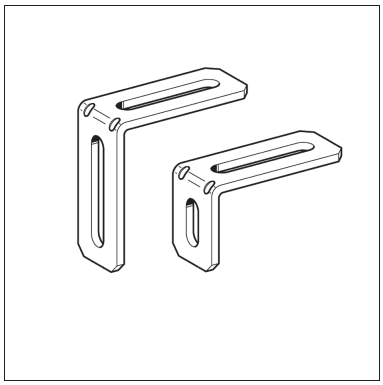
Application

Suitable for Sikla Channel System 41.
Useful addition to Support Brackets for integration in crossbars and other structures composed of channels with a width of 41 mm.

Technical Data

Material: Steel strip, cold-worked, electro-galvanised

Type	B [mm]	s [mm]	W [kg]	Quantity [pack]	Part number
90/90/45°	40	5	0.22	25	**106759**
95/95/90°	40	5	0.22	25	**114936**



Fixing Bracket MW LL

Group: 1326

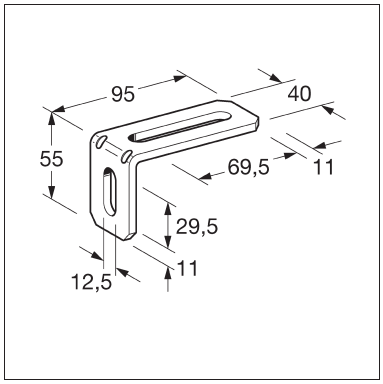
Application

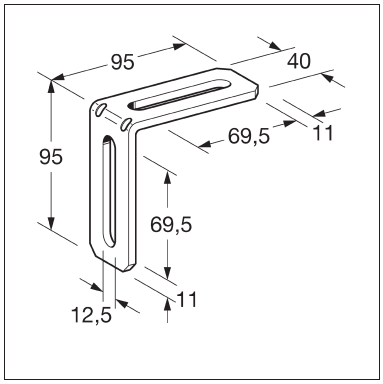
Suitable for Sikla Channel System 41. Fixing Bracket with wide adjusting range for construction of cross bars and other structures composed of channels.

Technical Data

Material: Steel, zinc-plated

Type	B [mm]	s [mm]	W [kg]	Quantity [pack]	Part number
95/55/90°	40	5	0.17	25	**172388**
95/95/90°	40	5	0.21	25	**172397**





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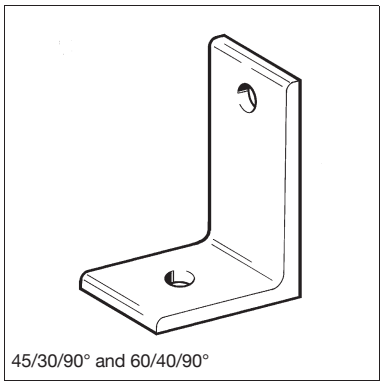
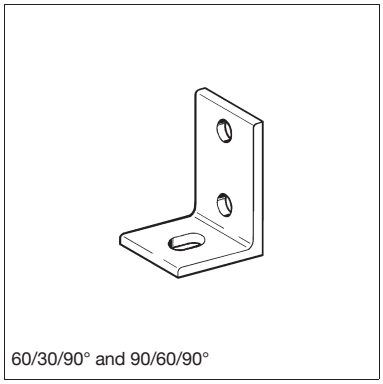
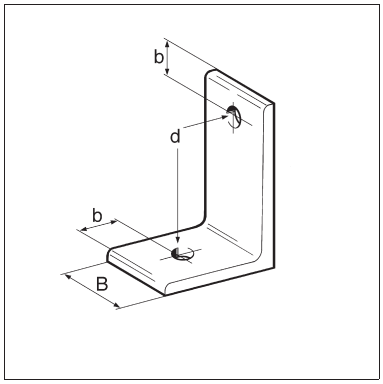
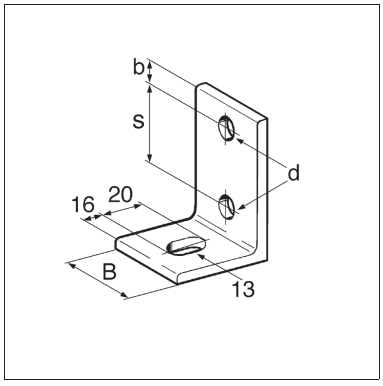


45/30/90° and 60/40/90°



60/30/90° and 90/60/90°





Fixing Bracket MW S

Group: 1326

Application

Designed for general mounting purposes as a direct lateral attachment link integrated in binding and bridging beams of concrete or wood, and for similar applications. It may serve as a connecting bracket for framework structures consisting of channels.

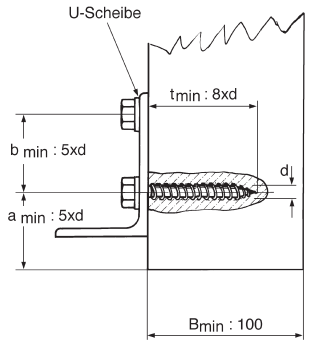
Sprinkler systems: See "Technical Data". Types 60/30/90 and 90/60/90 are designed for attachment of pipes to wooden truss according to VdS CEA-standard 15.2.2.

Technical Data

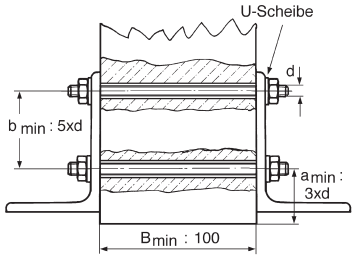
Type	Working load
45/30/90°	3.5 kN
60/30/90°	3.5 kN
70/40/90°	2.0 kN
60/40/90°	5.0 kN
90/60/90°	5.0 kN

For Sprinkler systems: Application of 60/30/90 and 90/60/90 to wooden truss

Single Bracket with wooden screw



Double Bracket with threaded bolt

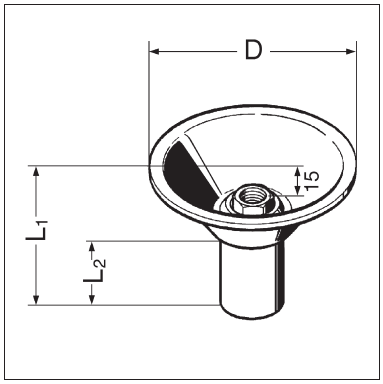


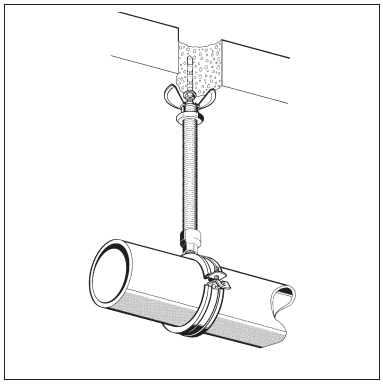
"d" depending on NB:

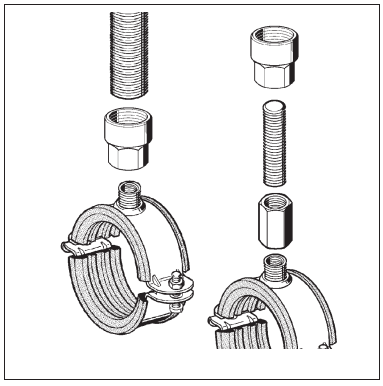
	≤ NB 50:	2 x 6 mm
> NB 50	≤ DN 100:	2 x 8 mm
> NB 100	≤ DN 150:	2 x 10 mm

Material: Angle steel profile, electro-galvanised

Type	Angle steel profile DIN 1029	B [mm]	b [mm]	d [mm]	s [mm]	W [kg]	Quantity [pack]	Part number
45/30/90°	45/30/4	30	13	11	-	0.07	50	**115380**
60/30/90°	60/30/5	30	10	11	30	0.09	25	**156505**
70/40/90°	-	40	17/35	10.5	-	0.06	50	**191963**
60/40/90°	60/40/6	40	20	13	-	0.17	25	**115399**
90/60/90°	90/60/6	40	15	13	50	0.25	25	**114820**







Support Cone SMD 1

Group: 1325

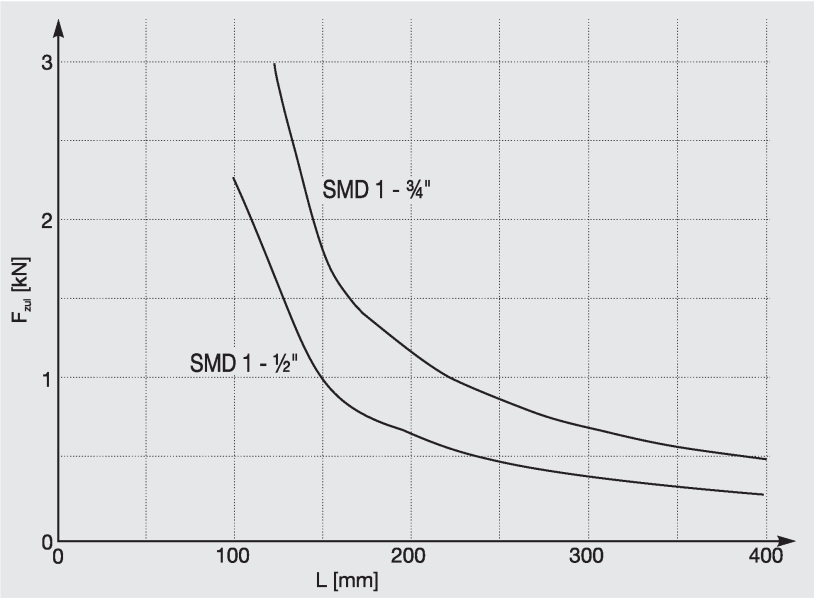
Application

Single-point mounting element for use with an anchor for floor, wall and ceiling mounting in M&E services. With its good overall stability, the Support Cone SMD 1 may also be used as a fixed-point mounting element in certain areas. In that case the permissible values for the lateral forces indicated in the characteristic curve are to be taken into consideration. This also applies to wall mounting situations. When used as fixed-point mounting element the pipe clamp is to be connected directly to the support tube. When used as a normal, rigid mounting element, a grub screw may be used between support tube and pipe clamp for height adjustment.

Technical Data

The mentioned dates respect the permissible bending stress.
$\sigma_{perm} \leq 160$ N/mm^2 and the bending $f_{zul} \leq 3$mm.

Permissible anchor values may restrict the application.



Material: Steel, electro-galvanised

Type	Connection to system	Connection to building structure	D [mm]	L_1 [mm]	L_2 [mm]	W [kg]	Quantity [pack]	Part number
SMD 1-10	M10	M8	92	71	46	0.24	25	**112382**
SMD 1-12	M12	M8	92	71	46	0.26	25	**117513**
SMD 1-16	M16	M10	92	65	39	0.25	25	**117984**
SMD 1- ½"	½"	M10	92	60	34	0.23	25	**118125**
SMD 1- ¾"	¾"	M12	92	60	36	0.25	25	**118134**

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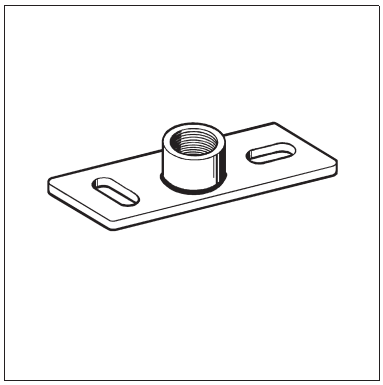
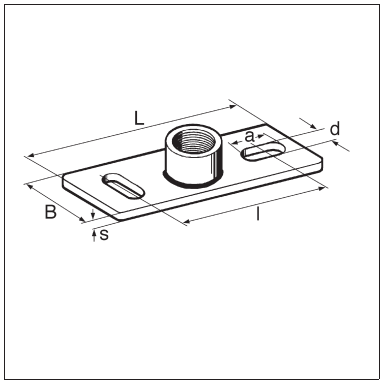
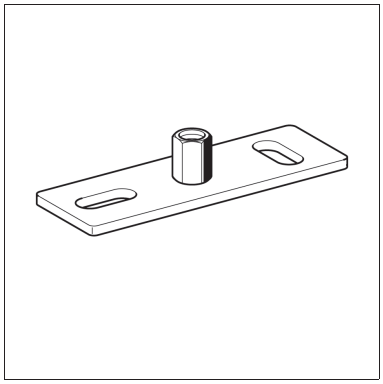
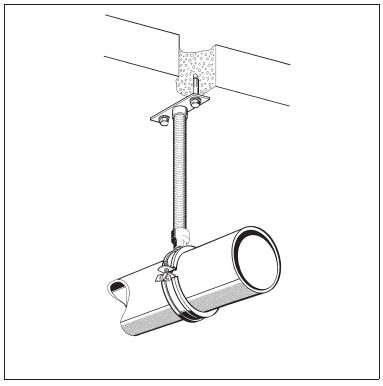








Mounting Plate GPL

Group: 1227

Application

For wall, ceiling and floor installation of mounting elements in M&E services.

Technical Data

Permissible anchor values may restrict the application.

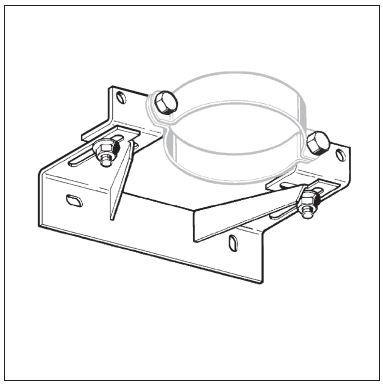
Type	Working load (tension) [kN]	Max. perm. bending moment* [Nm]	Max. lever arm [mm]	Welding method
Normal M8	1.5	8.8	150	R
Normal M10 / M10 RL	1.5	17.2	200	R
Normal 2G M8/M10	1.5	M8: 8.8 M10: 17.2	M8: 150 M10: 200	R
Normal R $^1/_2$"	1.5	25.0	300	R
Stabil M10	4.0	17.2	200	R
Stabil M12	4.0	29.6	300	R
Stabil M16	8.5	70.3	300	M
Stabil R $^1/_2$"	8.5	95.0	350	M
Stabil R $^3/_4$"	8.5	180.0	450	M
Stabil R 1"	8.5	350.0	500	M

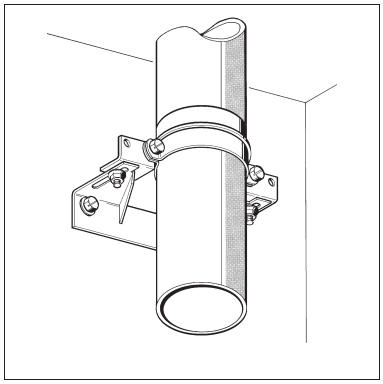
R = resistance welding
M = slot welding

* Limitation caused by the Mounting Plate or the loading capacity of the grub screw or of the threaded tube.
$\sigma_{perm} \leq 160$ N/mm^2 $f_{perm} < 5$ mm

Material: Steel, electro-galvanised

Type	Dimension L x W x Th [mm]	Elongated hole d x a [mm]	Centre distance l [mm]	W [kg]	Quantity [pack]	Part number
Normal M8	80 x 30 x 3	9 x 16	54	0.05	50	**107501**
Normal M10	80 x 30 x 3	9 x 16	54	0.06	50	**138361**
Normal 2G M8/M10	80 x 30 x 3	9 x 16	54	0.06	100	**113016**
Normal M10 RL	80 x 30 x 3	Ø 4.5	54	0.06	50	**199077**
Normal R $^1/_2$"	80 x 30 x 3	9 x 16	54	0.08	50	**138501**
Stabil M10	120 x 40 x 4	11 x 25	80	0.14	50	**138343**
Stabil M12	120 x 40 x 4	11 x 25	80	0.15	50	**107556**
Stabil M16	120 x 40 x 5	11 x 25	80	0.19	50	**138352**
Stabil R $^1/_2$"	120 x 40 x 5	11 x 25	80	0.20	50	**138529**
Stabil R $^3/_4$"	120 x 40 x 5	11 x 25	80	0.20	50	**138538**
Stabil R 1"	120 x 40 x 5	11 x 25	80	0.22	50	**107592**





SFK Bracket

Group: 1341

Application

Support for vertical pipes of NB 100, 125 and 150 - one bracket for three sizes! Preferably used in combination with Pipe Clamp Stabil D-A or, if sound absorption is required, with Stabil D-A with Lining (see below).

Adjustable in two horizontal directions, thus ensuring an exact and tension-free run of vertical pipes.

In case SFK Brackets from pipe manufactures are used, rubber rings are added as insulation.

Scope of delivery

Partly pre-assembled. Two M10 bolts and two flange nuts for fixing the pipe clamp are included in loose form.

Supplied without pipe clamp. See table below for suitable clamp.

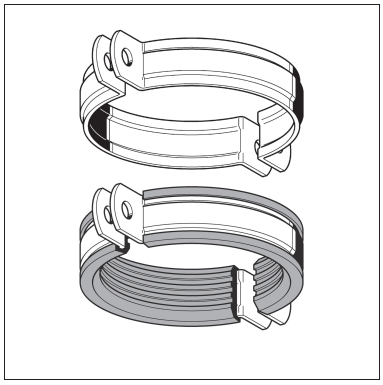
Installation

Distance between wall and pipe:
NB 100 (SML 110): min. 5 mm - max. 72 mm
NB 125 (SML 135): min. 5 mm - max. 53 mm
NB 150 (SML 160): min. 5 mm - max. 40 mm

Technical Data

Max. adm. load (pressure):	2,0 kN
Material:	Steel, cold-worked, electro galvanised

Type	W [kg]	Quantity [pack]	Part number
SFK	1.19	5	**105110**



Stabil D-A for SFK Bracket

Size range [mm]	NB	W [kg]	Quantity [pack]	Part number
110 - 116	4"	0.30	25	**113377**
133 - 140		0.65	10	**113379**
159 - 165		0.72	10	**113382**
108 - 115 m. E.	4"	0.37	25	**147099**
131 - 137 m. E.		0.80	10	**147105**
156 - 162 m. E.	6"	0.93	10	**147114**

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Stabil D

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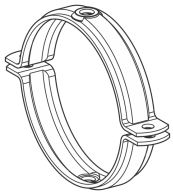
Stabil D-A



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Stabil D-3G

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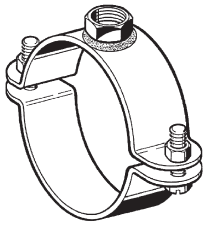
Stabil D-M16



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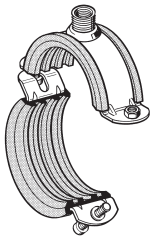
Stabil D-3G w/ Lining



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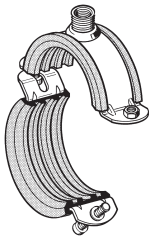
Stabil D-3G w/ Silicone Lining



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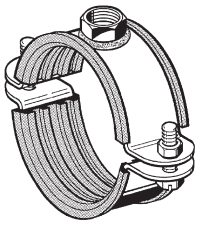
Stabil D-M16 w/ Lining



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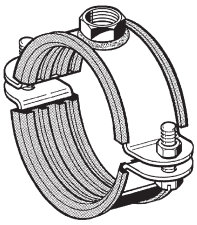
Stabil D-M16 w/ Silicone Lining



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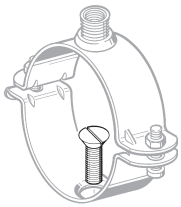
Countersink Screw SCR



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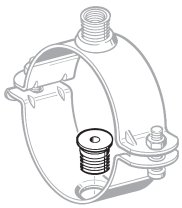
Triple-Thread Connector NT 3G



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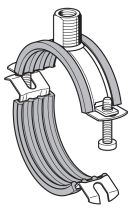
Ratio S



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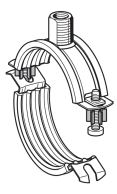
Ratio S-K for Plastic Pipes



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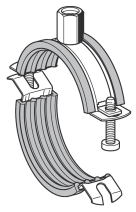
Ratio LS



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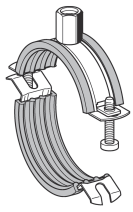
Ratio LS Silicone



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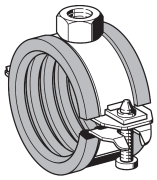
Ratio S M8



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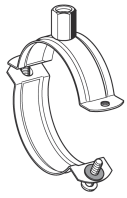
Duo Clamp SRS



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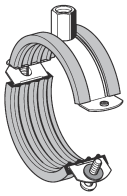
Duo Clamp SRS with Lining



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Stabil RB-A

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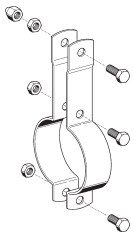
Stabil Type C



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Ring Bolt SCR

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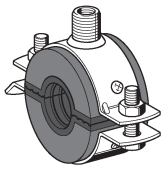
Chilled Water Clamp SKS Top-2C



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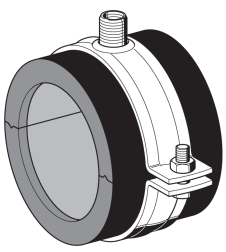
Chilled Water Clamp LKS H / M



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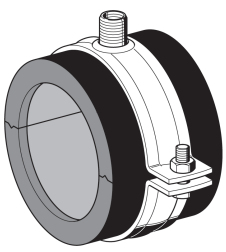
Chilled Water Clamp LKS T



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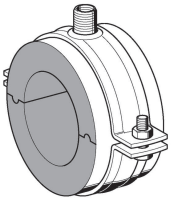
Chilled Water Clamp CMP



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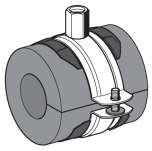
Chilled Water Clamp AKS



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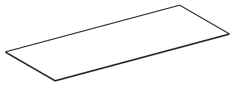
Load Plate



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Pipe Loop RSL N

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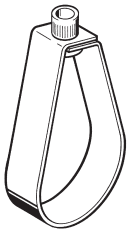
Pipe Loop RSL Praktica S



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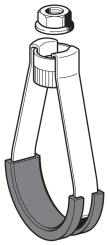
Pipe Loop RSL N Silicone



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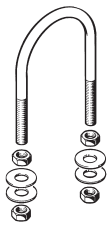
U Bolt RUB



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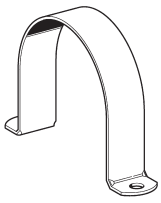
U Clamp RUC



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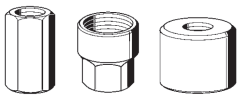
Adapter AD f/f



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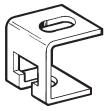
Height Adjuster HRS 0



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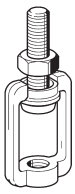
Height Adjuster HRS P



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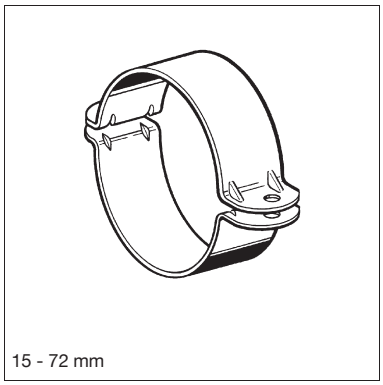
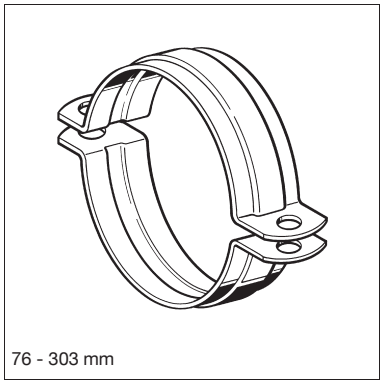
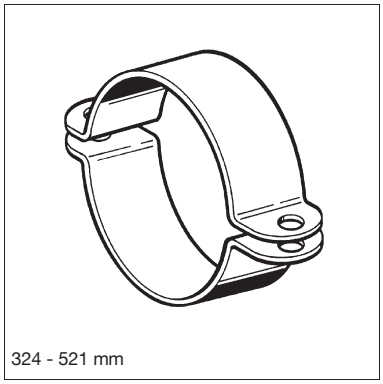


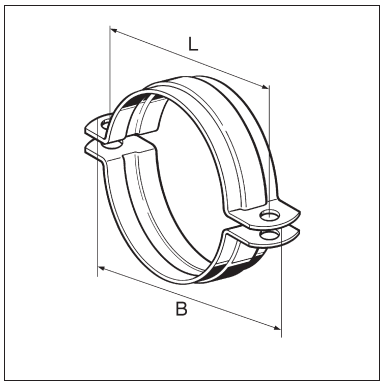
15 - 72 mm



76 - 303 mm



324 - 521 mm



Stabil D

Group: 1239

Application
For the installation of pipes required for all M&E services in industrial, residential and public buildings.

Scope of delivery
Two parts pipe clamp without clamping bolts and nuts. For suitable clamping bolts, see chapter "Fixings and Fastenings".

Technical Data

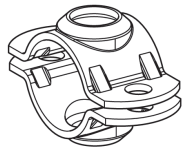
Size [mm]	Working load (tension)
15 - 72	4.0 kN
76 - 129	5.0 kN
133 - 173	8.0 kN
176 - 303	12.5 kN
316 - 521	15.0 kN

Material: Steel, electro-galvanised

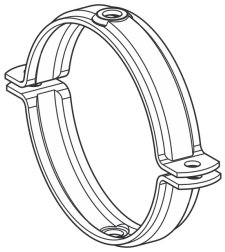
Approvals
FM-Approval

03/2015

Size range [mm]	NB	Material W x th [mm]	Recommended clamping bolts	B [mm]	L [mm]	W [kg]	Quantity [pack]	Part number
15 - 19	3/8"	25 x 3.0	M8 x 25	64	42	0.07	50	**107732**
20 - 24	1/2"	25 x 3.0	M8 x 25	69	47	0.08	50	**107741**
25 - 30	3/4"	25 x 3.0	M8 x 25	75	53	0.08	50	**107750**
31 - 35	1"	30 x 3.0	M8 x 25	80	58	0.11	50	**106786**
40 - 45	1 1/4"	30 x 3.0	M8 x 25	90	68	0.13	50	**106795**
48 - 53	1 1/2"	30 x 3.0	M8 x 25	98	76	0.14	50	**106801**
54 - 59		30 x 3.0	M8 x 25	104	82	0.16	50	**106810**
60 - 65	2"	30 x 3.0	M8 x 25	110	88	0.18	50	**106829**
67 - 72		30 x 3.0	M8 x 25	117	95	0.19	50	**106838**
76 - 81	2 1/2"	30 x 3.0	M10 x 30	141	114	0.22	25	**106847**
82 - 87		30 x 3.0	M10 x 30	147	120	0.23	25	**106856**
88 - 93	3"	30 x 3.0	M10 x 30	153	126	0.25	25	**106865**
102 - 108		30 x 3.0	M10 x 30	168	141	0.28	25	**106874**
110 - 116	4"	30 x 3.0	M10 x 30	176	149	0.30	25	**106883**
124 - 129		30 x 3.0	M10 x 30	189	162	0.32	25	**106892**
133 - 140		40 x 4.0	M12 x 40	210	178	0.66	10	**106908**
140 - 148	5"	40 x 4.0	M12 x 40	218	186	0.66	10	**115876**
149 - 155		40 x 4.0	M12 x 40	225	193	0.72	10	**106917**
159 - 165		40 x 4.0	M12 x 40	235	203	0.72	10	**106926**
167 - 173	6"	40 x 4.0	M12 x 40	243	211	0.76	10	**106935**
176 - 184		40 x 4.0	M16 x 45	271	239	0.83	10	**106944**
188 - 194		40 x 4.0	M16 x 45	281	249	0.84	10	**106953**
199 - 205		40 x 4.0	M16 x 45	292	260	0.89	10	**106962**
207 - 216		40 x 4.0	M16 x 45	303	271	0.36	10	**150891**
219 - 225	8"	40 x 4.0	M16 x 45	312	280	0.96	10	**106971**
244 - 250		40 x 4.0	M16 x 45	337	305	1.07	10	**107510**
267 - 273	10"	40 x 4.0	M16 x 45	359	327	1.13	10	**106980**
278 - 284		40 x 4.0	M16 x 45	370	338	1.20	10	**106999**
297 - 303		40 x 4.0	M16 x 45	389	357	1.27	10	**107006**
316 - 324	324	50 x 5.0	M16 x 60	440	390	2.10	1	**103701**
348 - 356	356	50 x 5.0	M16 x 60	471	421	2.53	1	**103729**
360 - 368	368	50 x 5.0	M16 x 60	482	432	2.54	1	**103747**
399 - 407	407	50 x 5.0	M16 x 60	520	470	2.88	1	**103765**
411 - 419	419	70 x 6.0	M16 x 60	532	482	4.84	1	**103783**
500 - 508	508	70 x 6.0	M16 x 60	619	569	5.78	1	**103808**
513 - 521	521	70 x 6.0	M16 x 60	631	581	5.67	1	**103826**

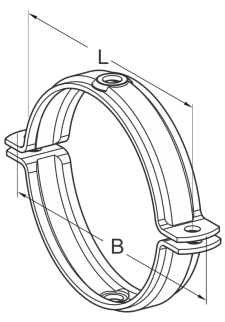


31 - 72 mm



76 - 303 mm

324 - 521 mm



Stabil D-A

Group: 1239

Application

For installation of pipes required for all M&E services in industrial, residential and public buildings. In combination with Triple Thread Connector NT 3G the suspension of pipe clamps up to dia. 303 mm is possible.

Scope of delivery

Two parts pipe clamp without clamping bolts and nuts. For suitable clamping bolts, see chapter "Fixings and Fastenings".

Technical Data

Size [mm]	Working load (tension)
31 - 72	4,0 kN
76 - 129	5,0 kN
133 - 303	10,0 kN
316 - 521	12,5 kN

Material: Steel, electro-galvanised

Size range [mm]	NB	Material W x th [mm]	Recommended clamping bolts	B [mm]	L [mm]	W [kg]	Quantity [pack]	Part number
31 - 35	1"	30 x 2.5	M8 x 20	70.5	52.5	0.09	50	**113367**
40 - 45	1 1/4"	30 x 2.5	M8 x 20	82	64	0.10	50	**113368**
48 - 53	1 1/2"	30 x 2.5	M8 x 20	90.5	72.5	0.14	50	**113369**
54 - 59		30 x 2.5	M8 x 20	101	83	0.16	50	**113370**
60 - 65	2"	30 x 2.5	M8 x 20	108	90	0.18	50	**113371**
67 - 72		30 x 2.5	M8 x 20	114	96	0.19	50	**113372**
76 - 81	2 1/2"	30 x 3.0	M10 x 30	137	115	0.22	25	**113373**
82 - 87		30 x 3.0	M10 x 30	143	121	0.23	25	**113374**
88 - 93	3"	30 x 3.0	M10 x 30	149	127	0.25	25	**113375**
102 - 108		30 x 3.0	M10 x 30	163	141	0.28	25	**113376**
110 - 116	4"	30 x 3.0	M10 x 30	171	149	0.30	25	**113377**
124 - 129		30 x 3.0	M10 x 30	184	162	0.32	25	**113378**
133 - 140		40 x 4.0	M12 x 40	210	181	0.65	10	**113379**
140 - 148	5"	40 x 4.0	M12 x 40	218	189	0.66	10	**113380**
149 - 155		40 x 4.0	M12 x 40	225	196	0.72	10	**113381**
159 - 165		40 x 4.0	M12 x 40	235	206	0.72	10	**113382**
167 - 173	6"	40 x 4.0	M12 x 40	243	214	0.76	10	**113383**
176 - 184		40 x 4.0	M12 x 45	255	226	0.83	10	**113384**
188 - 194		40 x 4.0	M12 x 45	265	236	0.84	10	**113385**
199 - 205		40 x 4.0	M12 x 45	276	247	0.89	10	**113386**
207 - 216		40 x 4.0	M12 x 45	287	258	0.93	10	**113387**
219 - 225	8"	40 x 4.0	M12 x 45	296	267	0.96	10	**113388**
244 - 250		40 x 4.0	M12 x 45	321	292	1.02	10	**113389**
267 - 273	10"	40 x 4.0	M12 x 45	344	315	1.16	10	**113390**
278 - 284		40 x 4.0	M12 x 45	355	326	1.20	10	**113391**
297 - 303		40 x 4.0	M12 x 45	374	345	1.27	10	**113392**
316 - 324	324	50 x 5.0	M16 x 60	440	390	2.10	1	**103701**
348 - 356	356	50 x 5.0	M16 x 60	471	421	2.53	1	**103729**
360 - 368	368	50 x 5.0	M16 x 60	482	432	2.54	1	**103747**
399 - 407	407	50 x 5.0	M16 x 60	520	470	2.88	1	**103765**
411 - 419	419	70 x 6.0	M16 x 60	532	482	4.84	1	**103783**
500 - 508	508	70 x 6.0	M16 x 60	619	569	5.78	1	**103808**
513 - 521	521	70 x 6.0	M16 x 60	631	581	5.67	1	**103826**

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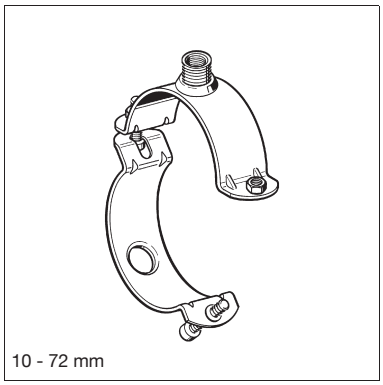
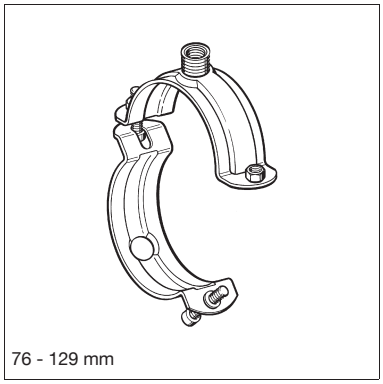
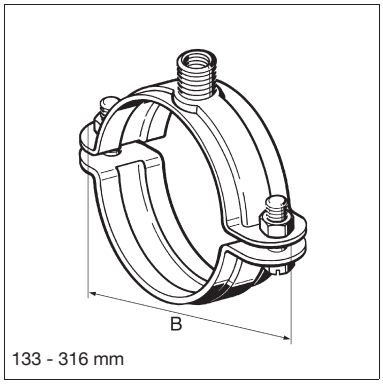
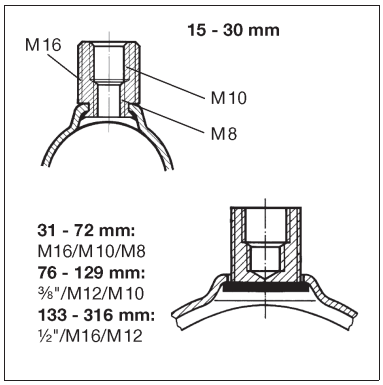

10 - 72 mm


76 - 129 mm



133 - 316 mm



Stabil D-3G

Group: 1240

Application

For installation of pipes required for all M&E services in industrial, residential and public buildings.

Scope of delivery

Sizes 15 to 129 mm are equipped with welded nuts for the clamping bolts. On the joint side, the clamping bolt is pre-assembled; the clamping bolt on the opposite side is mounted into the bore hole and retained by a plastic washer, thus preventing any accidental unscrewing.

For sizes 133 and larger the clamping bolts and the required nuts are supplied in loose form.

With welded in 3G triple thread nut; without sound absorption lining. For further adapter-based connection options via the external thread of the 3G triple thread nut, see product "Adapter AD f/f" (this chapter).

Technical Data

Size [mm]	Working load (tension)
15 - 72	4.0 kN
76 - 129	5.0 kN
133 - 173	8.0 kN
176 - 316	12.5 kN

Material: Steel, electro-galvanised

Approvals

VdS-Approval No. G4920027, * = FM Approval (another pipe clamp with FM Approval is: Stabil D-M16)

Size range [mm]	NB	Material W x th [mm]	Thread connection	B [mm]	W [kg]	Quantity [pack]	Part number
15 - 19	3/8"	25 x 2.0	M16/M10/M8	57	0.07	50	**107705**
20 - 24	1/2"	25 x 2.0	M16/M10/M8	62	0.08	50	**107714**
25 - 30	3/4"	25 x 2.0	M16/M10/M8	68	0.08	50	**107723**
31 - 35 *	1"	30 x 2.5	M16/M10/M8	75	0.12	50	**107015**
40 - 45 *	1 1/4"	30 x 2.5	M16/M10/M8	85	0.13	50	**107024**
48 - 53 *	1 1/2"	30 x 2.5	M16/M10/M8	93	0.15	50	**107033**
54 - 59		30 x 2.5	M16/M10/M8	101	0.16	50	**107042**
60 - 65 *	2"	30 x 2.5	M16/M10/M8	108	0.17	50	**107051**
67 - 72		30 x 2.5	M16/M10/M8	114	0.18	50	**107060**
76 - 81 *	2 1/2"	30 x 3.0	3/8"/M12/M10	144	0.28	25	**107079**
82 - 87		30 x 3.0	3/8"/M12/M10	150	0.29	25	**107088**
88 - 93 *	3"	30 x 3.0	3/8"/M12/M10	156	0.31	25	**107097**
102 - 108		30 x 3.0	3/8"/M12/M10	170	0.34	25	**107103**
110 - 116 *	4"	30 x 3.0	3/8"/M12/M10	178	0.36	25	**107112**
124 - 129		30 x 3.0	3/8"/M12/M10	191	0.39	25	**107121**
133 - 140		40 x 4.0	1/2"/M16/M12	210	0.74	10	**107130**
140 - 148 *	5"	40 x 4.0	1/2"/M16/M12	218	0.76	10	**115885**
149 - 155		40 x 4.0	1/2"/M16/M12	225	0.81	10	**107149**
159 - 165		40 x 4.0	1/2"/M16/M12	235	0.82	10	**107158**
167 - 173 *	6"	40 x 4.0	1/2"/M16/M12	243	0.85	10	**107167**
176 - 184		40 x 4.0	1/2"/M16/M12	255	0.95	10	**107176**
188 - 194		40 x 4.0	1/2"/M16/M12	265	0.98	10	**107185**
199 - 205		40 x 4.0	1/2"/M16/M12	276	1.03	10	**107194**
207 - 216		40 x 4.0	1/2"/M16/M12	287	1.07	10	**148939**
219 - 225	8"	40 x 4.0	1/2"/M16/M12	296	1.11	10	**107200**
244 - 250		40 x 4.0	1/2"/M16/M12	321	1.23	10	**107219**
267 - 273	10"	40 x 4.0	1/2"/M16/M12	344	1.25	10	**107228**
278 - 284		40 x 4.0	1/2"/M16/M12	355	1.35	10	**107237**
297 - 303		40 x 4.0	1/2"/M16/M12	374	1.42	10	**107246**
310 - 316		40 x 4.0	1/2"/M16/M12	387	1.47	10	**147600**

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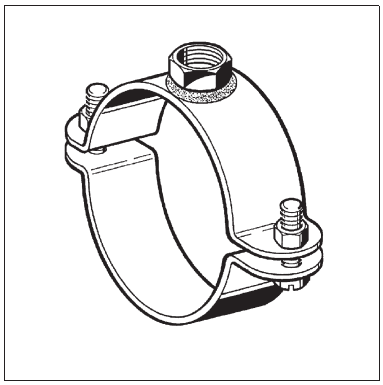
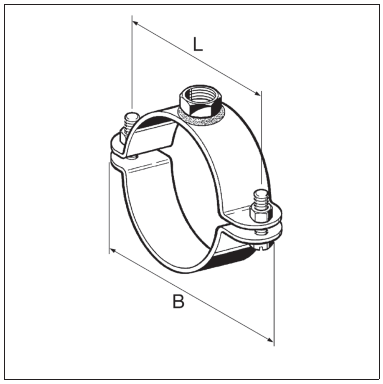




Stabil D-M16

Group: 1232

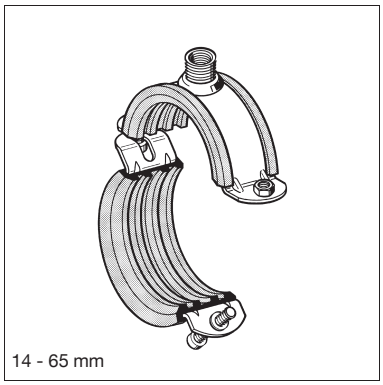
Application
For installation of pipes required for M&E services and in plant construction.

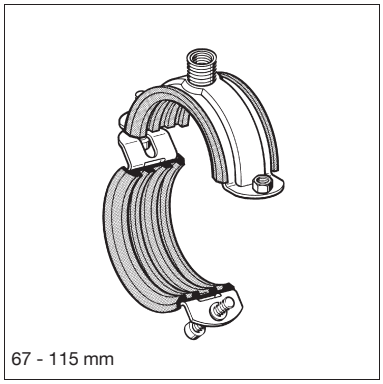
Scope of delivery
With welded M16 nut; clamping bolts and nuts included in loose form. Other welded nuts (e.g. M20) or inch sockets available on request.

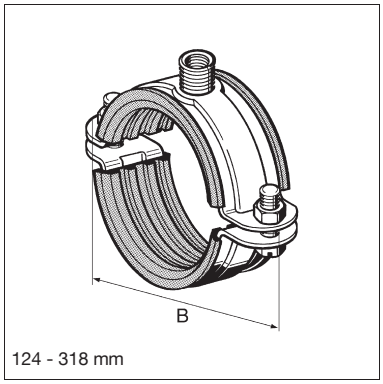
Technical Data
Material: Steel, electro-galvanised

Approvals
FM-Approval for DN 218 - 277

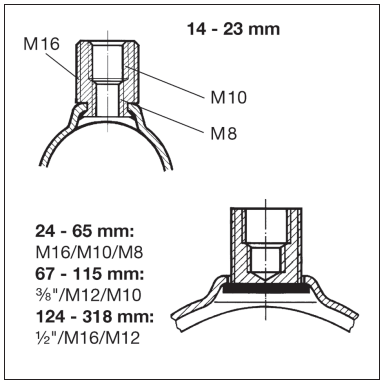
Size range [mm]	Material [mm]	Clamping bolts	B [mm]	L [mm]	W [kg]	Quantity [pack]	Part number
218 - 227	40 x 4	M12 x 40	301	275	1.18	10	**118772**
271 - 277	40 x 4	M12 x 40	351	325	1.42	10	**118198**
316 - 326	50 x 5	M16 x 60	440	390	2.60	1	**103844**
348 - 356	50 x 5	M16 x 60	471	421	2.48	1	**103862**
360 - 368	50 x 5	M16 x 60	483	431	2.99	1	**103871**
399 - 407	50 x 5	M16 x 60	520	470	2.95	1	**103905**
411 - 419	70 x 6	M16 x 60	532	482	5.12	1	**103914**
500 - 508	70 x 6	M16 x 60	619	569	6.06	1	**103941**
513 - 521	70 x 6	M16 x 60	631	581	6.34	1	**103950**


14 - 65 mm


67 - 115 mm



124 - 318 mm



Stabil D-3G w/ Lining

Group: 1241

Application

For soundproof installation of pipes required for all M&E services in industrial, residential and public buildings.

Scope of delivery

Sizes 14 to 115 mm are equipped with welded nuts for the clamping bolts. On the joint side, the clamping bolt is pre-assembled; the clamping bolt on the opposite side is mounted into the bore hole and retained by a plastic washer, thus preventing any accidental unscrewing.

For sizes 124 and larger the clamping bolts and the required nuts are supplied in loose form.

With welded 3G triple thread nut; galvanised; with sound absorption lining. For further adapter-based connection options via the external thread of the 3G triple thread nut, see product "Adapter AD f/f" (this chapter).

Technical Data

Size [mm]	Working load (tension)	Tightening torque [Nm]
14 - 23	1.8 kN	2
24 - 115	2.0 kN	3
124 - 162	2.9 kN	5
165 - 318	8.0 kN	10

The recommended load is calculated using specific statistical methods relating to break load and is designed to restrict deflection to 1.5 mm or 2 % of the maximum applicable clamping diameter.

Perm. load $FZ_{perm,fi}$ in case of fire

Size range [mm]	FWD 30 [N]	FWD 60 [N]	FWD 90 [N]	FWD 120 [N]	Deformation δ_{max} [mm]	Thread ≥
14 - 23	380	200	140	-	49	M10
24 - 65	500	250	170	120	44	M10
67 - 115	1000	650	500	400	96	M10
124 - 162	2200	1200	850	600	96	M12
165 - 305	2400	1400	1000	850	104	M12

Material:

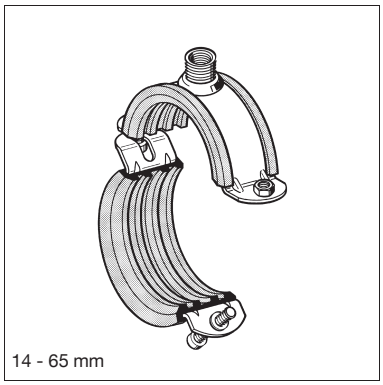
Metal components:	Steel, electro-galvanised
Sound absorption lining:	SBR/EPDM sticked in (black) - (see chapter "Sound Absorption Products")

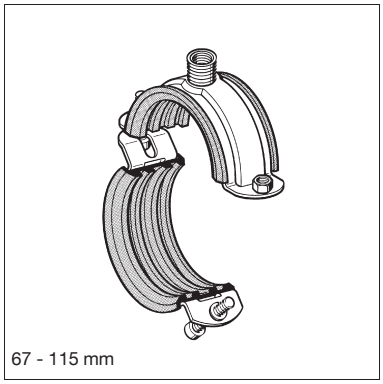
Approvals

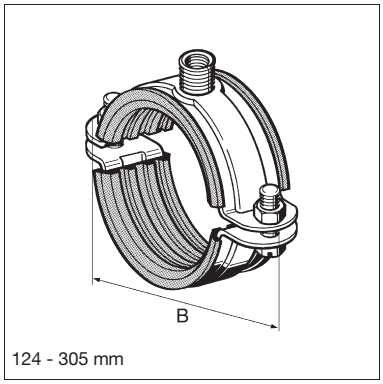
This product has been awared the RAL quality mark "pipe supports" and "fire-tested pipe supports" and is subject to continuous external monitoring according to RAL GZ-655.

* = no RAL quality mark

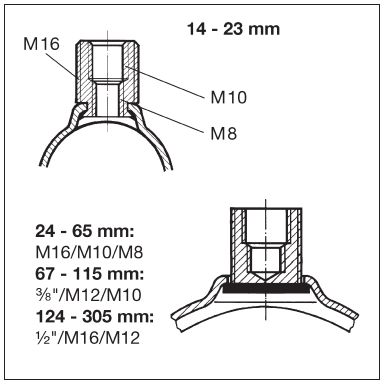
Size range [mm]	NB	Material W x th [mm]	Thread connection	B [mm]	W [kg]	Quantity [pack]	Part number
14 - 18	3/8"	25 x 2.0	M16/M10/M8	62	0.08	50	**107680**
19 - 23	1/2"	25 x 2.0	M16/M10/M8	68	0.09	50	**107699**
24 - 28	3/4"	30 x 2.5	M16/M10/M8	75	0.12	50	**107255**
29 - 33	1"	30 x 2.5	M16/M10/M8	81	0.14	50	**107264**
33 - 37		30 x 2.5	M16/M10/M8	85	0.15	50	**107273**
40 - 45	1 1/4"	30 x 2.5	M16/M10/M8	93	0.17	50	**107282**
47 - 52	1 1/2"	30 x 2.5	M16/M10/M8	104	0.19	50	**107291**
53 - 58		30 x 2.5	M16/M10/M8	110	0.19	50	**107307**
60 - 65	2"	30 x 2.5	M16/M10/M8	117	0.21	50	**107316**
67 - 72		30 x 3.0	3/8"/M12/M10	144	0.30	25	**107325**
73 - 78	2 1/2"	30 x 3.0	3/8"/M12/M10	150	0.31	25	**107334**
79 - 85		30 x 3.0	3/8"/M12/M10	156	0.33	25	**107343**
88 - 93	3"	30 x 3.0	3/8"/M12/M10	164	0.36	25	**107352**
100 - 106		30 x 3.0	3/8"/M12/M10	178	0.39	25	**107361**
108 - 115	4"	30 x 3.0	3/8"/M12/M10	187	0.42	25	**107370**
124 - 129		40 x 4.0	1/2"/M16/M12	210	0.89	10	**107389**
131 - 137		40 x 4.0	1/2"/M16/M12	218	0.93	10	**107398**
138 - 144	5"	40 x 4.0	1/2"/M16/M12	225	0.96	10	**107404**
148 - 154		40 x 4.0	1/2"/M16/M12	235	1.00	10	**107413**
156 - 162		40 x 4.0	1/2"/M16/M12	243	1.05	10	**107422**
165 - 171	6"	40 x 4.0	1/2"/M16/M12	255	1.18	10	**107431**
177 - 183		40 x 4.0	1/2"/M16/M12	265	1.23	10	**107440**
188 - 194		40 x 4.0	1/2"/M16/M12	276	1.25	10	**107459**
196 - 203		40 x 4.0	1/2"/M16/M12	287	1.32	10	**148911**
205 - 214		40 x 4.0	1/2"/M16/M12	296	1.35	10	**148920**
219 - 225	8"	40 x 4.0	1/2"/M16/M12	307	1.41	10	**107468**
244 - 250		40 x 4.0	1/2"/M16/M12	332	1.55	10	**107477**
267 - 273	10"	40 x 4.0	1/2"/M16/M12	355	1.62	10	**107486**
278 - 284		40 x 4.0	1/2"/M16/M12	366	1.67	10	**112718**
299 - 305		40 x 4.0	1/2"/M16/M12	387	1.80	10	**107495**
307 - 318 *		40 x 4.0	1/2"/M16/M12	400	1.95	10	**189974**


14 - 65 mm


67 - 115 mm



124 - 305 mm



Stabil D-3G w/ Silicone Lining

Group: 1242

Application

For soundproof installation of pipes required for all M&E services in industrial, residential and public buildings (as per DIN 4109).

Scope of delivery

Sizes 14 to 115 mm are equipped with welded nuts for the clamping bolts. On the joint side, the clamping bolt is pre-assembled; the clamping bolt on the opposite side is mounted into the bore hole and retained by a plastic washer, thus preventing any accidental unscrewing.

For sizes 124 mm and larger the clamping bolts and the required nuts are supplied in loose form.

With welded 3G triple thread nut; with silicone sound absorption lining. Sizes $^{3}/_{8}$" and $^{1}/_{2}$": the silicone lining is only included in the pack, not fitted into the clamps.

For further adapter-based connection options via the external thread of the 3G triple thread, see product "Adapter AD f/f" (this chapter).

Technical Data

Size [mm]	Working load (tension)	Tightening torque [Nm]
14 - 23	1.8 kN	2
24 - 115	2.0 kN	3
124 - 162	2.9 kN	5
165 - 305	8.0 kN	10

The recommended load is calculated using specific statistical methods relating to break load and is designed to restrict deflection to 1.5 mm or 2 % of the maximum applicable clamping diameter.

Material:

Metal components:	Steel, electro-galvanised
Sound absorption lining:	Silicone (see chapter "Sound Absorption Products").

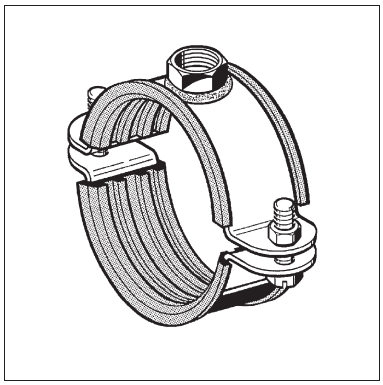
Approvals

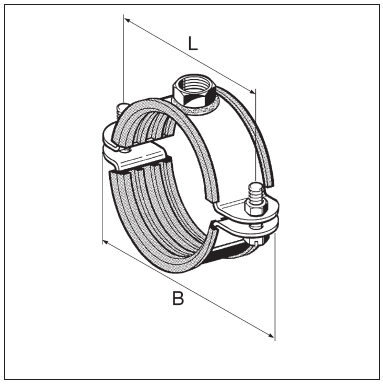
VdS Approval No. G4950064

RAL GÜTEZEICHEN ROHRBEFESTIGUNG

This product has been awarded the RAL quality marks "pipe supports" and "fire-tested pipe supports" and is subject to continuous external monitoring according to RAL GZ-655.

Size range [mm]	NB	Material W x th [mm]	Thread connection	B [mm]	W [kg]	Quantity [pack]	Part number
14 - 18	3/8"	25 x 2.0	M16/M10/M8	62	0.08	50	**108070**
19 - 23	1/2"	25 x 2.0	M16/M10/M8	68	0.09	50	**108089**
24 - 28	3/4"	30 x 2.5	M16/M10/M8	75	0.13	50	**108098**
29 - 33	1 "	30 x 2.5	M16/M10/M8	81	0.14	50	**108104**
33 - 37		30 x 2.5	M16/M10/M8	85	0.15	50	**108113**
40 - 45	1 1/4"	30 x 2.5	M16/M10/M8	93	0.16	50	**108122**
47 - 52	1 1/2"	30 x 2.5	M16/M10/M8	104	0.19	50	**108131**
53 - 58		30 x 2.5	M16/M10/M8	110	0.20	50	**108140**
60 - 65	2"	30 x 2.5	M16/M10/M8	117	0.21	50	**108159**
67 - 72		30 x 3.0	3/8"/M12/M10	144	0.31	25	**108168**
73 - 78	2 1/2"	30 x 3.0	3/8"/M12/M10	150	0.33	25	**108177**
79 - 85		30 x 3.0	3/8"/M12/M10	156	0.32	25	**108186**
88 - 93	3"	30 x 3.0	3/8"/M12/M10	164	0.37	25	**108195**
100 - 106		30 x 3.0	3/8"/M12/M10	178	0.40	25	**108201**
108 - 115	4"	30 x 3.0	3/8"/M12/M10	187	0.43	25	**108210**
124 - 129		40 x 4.0	1/2"/M16/M12	210	0.87	10	**108229**
131 - 137		40 x 4.0	1/2"/M16/M12	218	0.91	10	**108238**
138 - 144	5"	40 x 4.0	1/2"/M16/M12	225	0.94	10	**108274**
148 - 154		40 x 4.0	1/2"/M16/M12	235	1.00	10	**108283**
156 - 162		40 x 4.0	1/2"/M16/M12	243	1.05	10	**108292**
165 - 171	6"	40 x 4.0	1/2"/M16/M12	255	1.14	10	**108308**
177 - 183		40 x 4.0	1/2"/M16/M12	265	1.18	10	**108317**
188 - 194		40 x 4.0	1/2"/M16/M12	276	1.23	10	**108326**
196 - 203		40 x 4.0	1/2"/M16/M12	287	1.30	10	**154947**
205 - 214		40 x 4.0	1/2"/M16/M12	296	1.40	10	**149879**
219 - 225	8"	40 x 4.0	1/2"/M16/M12	307	1.40	10	**108335**
244 - 250		40 x 4.0	1/2"/M16/M12	332	1.51	10	**108344**
267 - 273	10"	40 x 4.0	1/2"/M16/M12	355	1.71	10	**108353**
299 - 305		40 x 4.0	1/2"/M16/M12	387	1.79	10	**108362**





Stabil D-M16 w/ Lining

Group: 1213

Application

For soundproof installation of pipes in M&E services and plant construction.

Scope of delivery

With sound absorption lining; with welded on M16 nut; clamping bolts and nuts included in loose form. Other welded nuts (e.g. M20) or inch sockets available on request.

Technical Data

Size range [mm]	Max. adm. load (tension)	Tightening torque [Nm]
315 - 407	9 kN	20
410 - 521	15 kN	20

The max. admissible load has been determined by using statistical methods resulting from the breaking loads, observing a max. admissible deformation of 1.5 mm resp. 2 % of the max. tensible pipe dia.

Material:
Metal components: Steel, electro-galvanised
Sound absorption lining: SBR/EPDM (black) - (see chapter "Sound Absorption Products")

Size range [mm]	Material [mm]	Clamping bolts	B [mm]	L [mm]	W [kg]	Quantity [pack]	Part number
315 - 326	50 x 5	M16 x 60	454	404	3.10	1	**103987**
345 - 356	50 x 5	M16 x 60	482	432	3.13	1	**103996**
359 - 368	50 x 5	M16 x 60	496	446	3.57	1	**104003**
398 - 407	50 x 5	M16 x 60	534	484	3.66	1	**104012**
410 - 419	70 x 6	M16 x 60	546	496	5.95	1	**104021**
498 - 508	70 x 6	M16 x 60	631	581	6.97	1	**104030**
512 - 521	70 x 6	M16 x 60	645	595	7.43	1	**104049**

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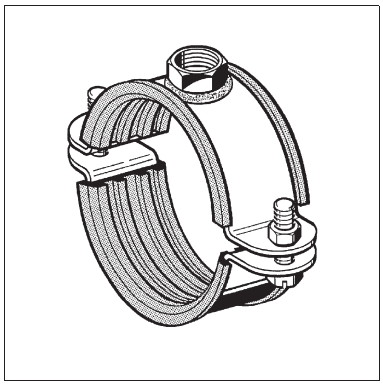
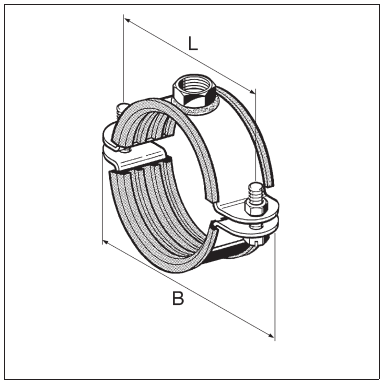




Stabil D-M16 w/ Silicone Lining

Group: 1214

Application

For soundproof installation of pipes in M&E services and plant construction (as per DIN 4109).

Scope of delivery

With silicone sound absorption lining (red); with welded on M16 nut; clamping bolts and nuts included in loose form. Other welded nuts (e.g. M20) or inch sockets available on request.

Technical Data

Size range [mm]	Max. adm. load tension)	Tightening torque [Nm]
315 - 407	9 kN	20
410 - 521	15 kN	20

The max. admissible load has been determined by using statistical methods resulting from the breaking loads, observing a max. admissible deformation of 1.5 mm resp. 2 % of the max. tensible pipe dia.

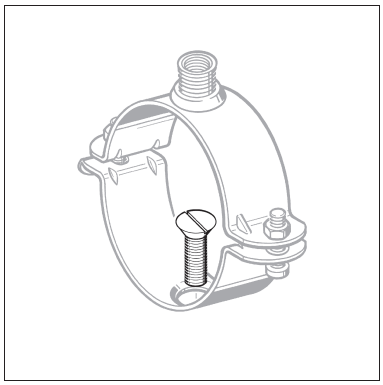
Material:

Metal components:	Steel, electro-galvanised
Sound absorption lining:	Silicone (see chapter "Sound Absorption Products")

Approvals

VdS Approval No. G4920027, FM Approval

Size range [mm]	Material [mm]	Clamping bolts	B [mm]	L [mm]	W [kg]	Quantity [pack]	Part number
315 - 324	50 x 5	M16 x 60	454	404	3.08	1	**146007**
345 - 356	50 x 5	M16 x 60	482	432	3.13	1	**146016**
359 - 368	50 x 5	M16 x 60	496	446	3.57	1	**146025**
398 - 407	50 x 5	M16 x 60	534	484	3.66	1	**146034**



Countersink Screw SCR

Group: 1333

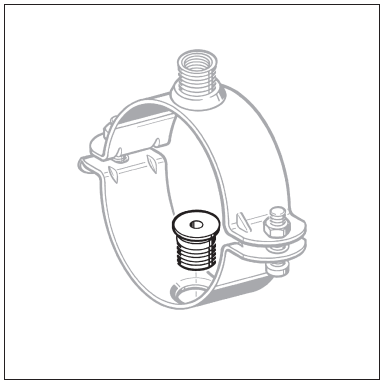
Application

Connection element for Stabil D-3G Pipe Clamps sizes $^{3}/_{8}$" up to $^{3}/_{4}$" (with sound absorption lining up to $^{1}/_{2}$") for suspending pipe clamps underneath one another.

Technical Data

Material: Steel, electro-galvanised

Type	W [kg]	Quantity [pack]	Part number
M8 x 20	0.01	100	**114097**



Triple-Thread Connector NT 3G

Group: 1333

Application

Connecting element for Sikla Stabil D-3G Pipe Clamps larger than 31 mm (with sound absorption lining larger than 24 mm) and Stabil D-A up to 303 mm for suspending pipe clamps underneath one another.

Technical Data

Material: Steel, electro-galvanised

Type	W [kg]	Quantity [pack]	Part number
M16/M10/M8	0.02	50	**146326**

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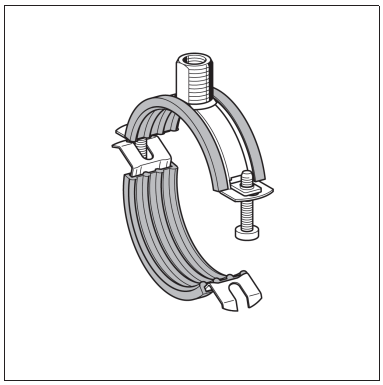
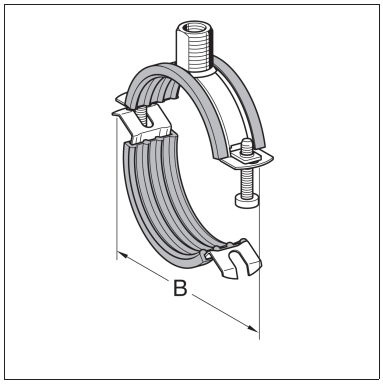
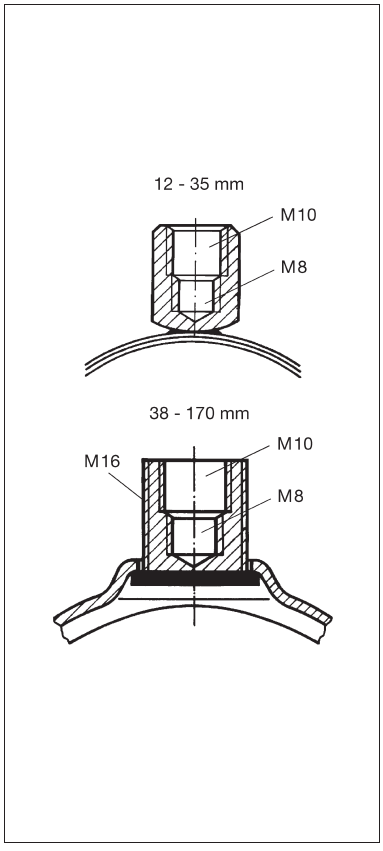






Ratio S

Group: 1231

Application

Suitable for installing pipe systems required for all M&E services. For connection options without adapter, see drawing. With Adapter: M12, M16, R $^1/_2$", R $^3/_4$", R 1".
Designed for soundproof ceiling, floor and wall mounting.

With sticked interlocking lining, which prevents from accidental loss of lining and allows easy turning and slipping of the pipe during assembly.

Scope of delivery

Two-piece pipe clamp pre-assembled on one side.
With patented quick-set clip on its open side. With 3G triple thread nut. Sizes $^1/_4$" - 1" also available with 2G nut as per drawing.

Technical Data

Size [mm]	Max. perm. working load (tension)	Tightening torque [Nm]
12 - 35	1.0 kN	2
38 - 90	1.5 kN	2
108 - 170	2.2 kN	3

The recommended load is calculated using specific statistical methods relating to break load and is designed to restrict deflection to 1.5 mm or 2 % of the maximum applicable clamping diameter.

Perm. load $FZ_{perm,fi}$ in case of fire

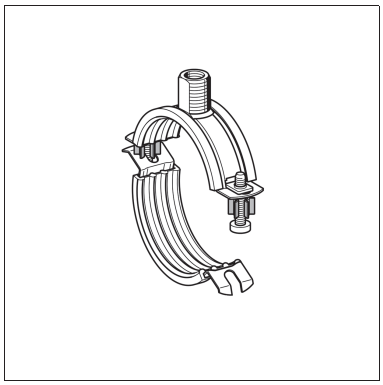
Size range [mm]	FWD 30 [N]	FWD 60 [N]	FWD 90 [N]	FWD 120 [N]	Deformation δ_{max} [mm]	Thread ≥
12 - 35	270	80	20	-	42	M10
38 - 80	450	140	70	40	41	M10
83 - 90	460	170	80	30	45	M10
108 - 170	570	310	200	150	62	M10

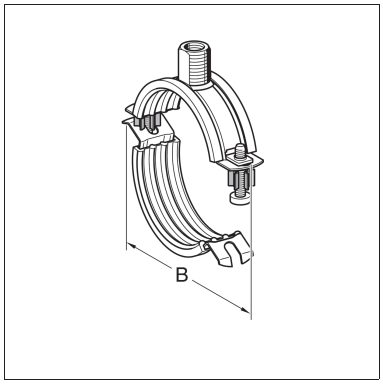
Material:
Clamp: Cold-worked steel, electro-galvanised
Sound absorption lining: SBR/EPDM, black (see chapter "Sound Absorption Products")
Sound Absorption: up to 18 dB(A)

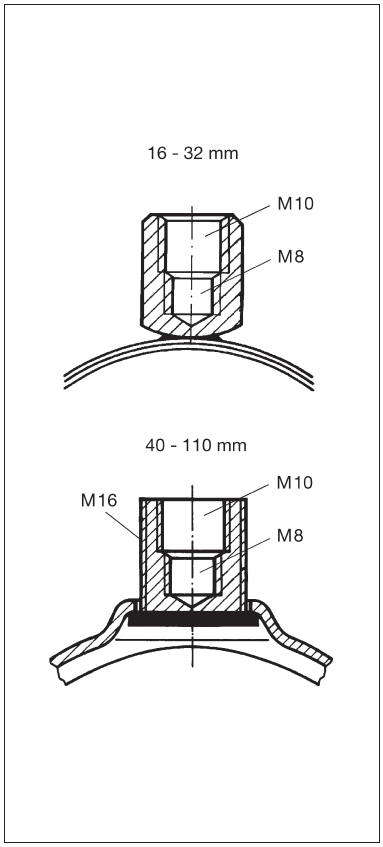
Approvals

This product has been awarded the RAL quality marks "pipe supports" and "fire-tested pipe supports" and is subject to continuous external monitoring according to RAL GZ-655.

Size range [mm]	NB	Material [mm]	B [mm]	W [kg]	Quantity [pack]	Part number
12 - 20	1/4" - 3/8"	20 x 1.5	55	0.06	100	**154804**
21 - 27	1/2" - 3/4"	20 x 1.5	61	0.07	100	**154813**
28 - 35	1"	20 x 1.5	71	0.07	100	**154822**
38 - 45	1 1/4"	20 x 1.5	82	0.09	50	**154831**
48 - 56	1 1/2"	20 x 1.5	93	0.09	50	**154840**
57 - 63	2"	20 x 1.5	104	0.11	50	**154859**
64 - 71		20 x 1.5	112	0.12	25	**154868**
73 - 80	2 1/2"	20 x 1.5	121	0.13	25	**154877**
83 - 90	3"	25 x 2.0	141	0.22	25	**154886**
108 - 114	4"	30 x 2.0	170	0.33	25	**154895**
116 - 125		30 x 2.0	179	0.36	25	**154901**
127 - 135		30 x 2.0	190	0.38	25	**154910**
140 - 146	5"	30 x 2.0	205	0.40	25	**154929**
159 - 170	6"	30 x 2.0	230	0.46	25	**154938**







Ratio S-K for Plastic Pipes

Group: 1235

Application

Two-piece clamp with quick-set clip and special lining for installing coated and uncoated plastic pipes of DIN and ANSI standard. No diffusion of plasticisers from the lining material into the plastic pipe. For ceiling, floor and wall mounting. Connections without adapter: M8, M10. Connections with Adapter (see this chapter): M12, M16, R $^1/_2$", R $^3/_4$" and R 1".
Up to size 110 equipped with spacers which allow sliding. To stop sliding, the spacers can be detached. For sliding installations from 4" on, we recommend the use of Pipe Clamp Stabil D-3G with Slide Set or Slide Element.

Scope of delivery

Two-piece pipe clamp pre-assembled on one side. With patented quick-set clip on its open side.
Sizes 40 and larger have a 3G triple thread nut which is inserted and welded. Up to size 110 supplied with spacers.

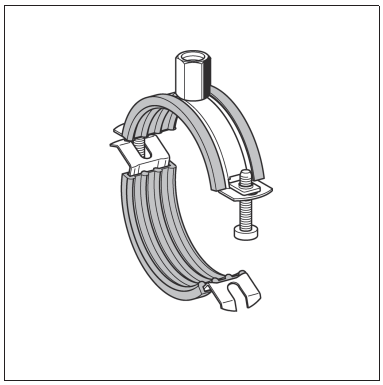
Technical Data

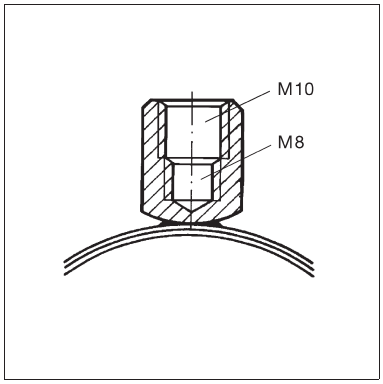
Size [mm]	Max. perm. working load (tension)
16 - 75	0.65 kN
90	1.00 kN
110	1.20 kN

The recommended load is calculated using specific statistical methods relating to break load and is designed to restrict deflection to 1.5 mm or 2 % of the maximum applicable clamping diameter.

Material:	
Clamp:	Cold-worked steel, electro-galvanised,
Spacers:	Polypropylene (PP)
Lining:	
Rubber Profile:	SBR/EPDM, beige
Temperature range:	-50°C up to +110°C
Hardness:	55+ / -5° Shore
Fire resistance:	Material Category B2 (DIN 4102), non-dripping
Tear strength:	600 N/cm^2
Breaking elongation:	450 %
Impact absorption:	45 %
Durability:	Weatherproof, ageing and ozone- resistant (DIN 53508 and DIN 53509)

Plastic pipe OD [mm]	Material W x th [mm]	Thread connection	B [mm]	W [kg]	Quantity [pack]	Part number
16	20 x 1.5	M10/M8	55	0.06	100	**148771**
20	20 x 1.5	M10/M8	61	0.07	100	**148780**
25	20 x 1.5	M10/M8	61	0.07	100	**148799**
32	20 x 1.5	M10/M8	71	0.07	100	**148805**
40	20 x 1.5	M16/M10/M8	82	0.09	50	**148814**
50	20 x 1.5	M16/M10/M8	93	0.10	50	**148823**
56	20 x 1.5	M16/M10/M8	104	0.11	50	**148832**
63	20 x 1.5	M16/M10/M8	112	0.11	50	**148841**
75	20 x 1.5	M16/M10/M8	121	0.13	25	**148850**
90	25 x 2.0	M16/M10/M8	141	0.22	25	**155993**
110	30 x 2.0	M16/M10/M8	170	0.33	25	**156000**
160	30 x 2.0	M16/M10/M8	230	0.42	25	**167509**
21.3	20 x 1.5	M10/M8	61	0.06	100	**167369**
26.7	20 x 1.5	M10/M8	61	0.06	100	**167378**
33.4	20 x 1.5	M10/M8	71	0.07	100	**167387**
42.2	20 x 1.5	M16/M10/M8	82	0.08	50	**167396**
48.3	20 x 1.5	M16/M10/M8	93	0.09	50	**167402**
60.3	20 x 1.5	M16/M10/M8	112	0.12	50	**166915**
73.0	20 x 1.5	M16/M10/M8	121	0.13	25	**166924**
88.9	20 x 1.5	M16/M10/M8	114	0.21	25	**166933**
114.3	25 x 2.0	M16/M10/M8	170	0.31	25	**166942**
168.3	30 x 2.0	M16/M10/M8	230	0.42	25	**167411**





Ratio LS

Group: 1245

Application

Two-piece pipe clamp with double threaded nut (M8/M10) for installing pipe systems for M&E services. For soundproof ceiling, floor and wall installations. With time-saving quick-set clip.
From 4" on, or when higher static loads occur, or under reversed bending stress, we recommend the use of a Stabil Pipe Clamp with lining.

Installation

After pressing together both parts of the clamp, the clamping bolt head must be located behind the angled profiles; then tighten clamping bolt (2 Nm).

Technical Data

Size [mm]	Max. perm. working load (tension)
12 - 84	0.60 kN
83 - 90	0.95 kN
108 - 114	1.15 kN

The recommended load is calculated using specific statistical methods relating to break load and is designed to restrict deflection to 1.5 mm or 2 % of the maximum applicable clamping diameter.

Perm. load $FZ_{perm,fi}$ in case of fire

Size range [mm]	FWD 30 [N]	FWD 60 [N]	FWD 90 [N]	FWD 120 [N]	Deformation δ_{max} [mm]	Thread ≥
12 - 84	270	120	70	40	35	M10
83 - 90	300	110	80	30	45	M10
108 - 114	510	260	170	130	46	M10

Material:

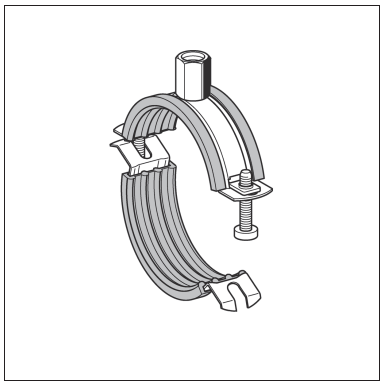
Clamp:	Steel, electro-galvanised
Spring element:	Spring steel
Sound absorption lining:	SBR/EPDM (black) (see chapter "Sound Absorption Products")
Sound absorption:	Up to 17 dB(A)

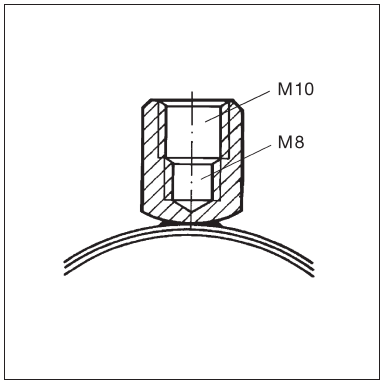
Approvals

This product has been awarded the RAL quality marks "pipe supports" and "fire-tested pipe supports" and is subject to continuous external monitoring according to RAL GZ-655.

* = no RAL quality mark "fire-tested pipe supports"

Size range [mm]	NB	Thread connections	W [kg]	Quantity [pack]	Part number
12 - 20	1/4" - 3/8"	20 x 1.5	0.05	100	**157418**
21 - 27	1/2" - 3/4"	20 x 1.5	0.06	100	**157427**
28 - 35	1"	20 x 1.5	0.07	100	**157436**
38 - 45	1 1/4"	20 x 1.5	0.09	50	**157445**
48 - 56	1 1/2"	20 x 1.5	0.09	50	**157454**
57 - 63	2"	20 x 1.5	0.10	50	**157463**
64 - 71		20 x 1.5	0.12	25	**157472**
74 - 84	2 1/2"	20 x 1.5	0.12	25	**157481**
83 - 90 *	3"	20 x 2.0	0.16	25	**157490**
108 - 114	4"	25 x 2.0	0.26	25	**157506**





Ratio LS Silicone

Group: 1244

Application

Two-piece pipe clamp with double thread nut (M8/M10) for installing pipe systems for M&E services. Suitable for soundproof installation of pipes made of plastic, copper, steel (also stainless steel), mainly for high temperatures. With a time-saving quick-set clip.
From 3" on, or when higher static loads occur, or under reversed bending stress, we recommend the use of a Stabil pipe clamp with silicone lining.

Installation

After pressing together both parts of the clamp, the clamping bolt head must be located behind the angled profiles; then tighten clamping bolt (2 Nm).

Technical Data

Size [mm]	Max. perm. working load (tension)
12 - 84	0.60 kN
83 - 90	0.95 kN

The recommended load is calculated using specific statistical methods relating to break load and is designed to restrict deflection to 1.5 mm or 2 % of the maximum applicable clamping diameter.

Material:	
Clamp:	Steel, electro-galvanised
Spring element:	Spring steel
Sound absorption lining:	Silicone red (see chapter "Sound Absorption Products")
Sound absorption:	Up to 16 dB(A)

Approvals

This product has been awarded the RAL quality marks "pipe supports" and "fire-tested pipe supports" and is subject to continuous external monitoring according to RAL GZ-655.

Size range [mm]	For Pipes acc. to DIN 2440	Thread connections	W [kg]	Quantity [pack]	Part number
12 - 20	1/4" - 3/8"	20 x 1.5	0.05	100	**166401**
21 - 27	1/2"- 3/4"	20 x 1.5	0.06	100	**166410**
28 - 35	1"	20 x 1.5	0.07	100	**166429**
38 - 45	1 1/4"	20 x 1.5	0.08	50	**166438**
48 - 56	1 1/2"	20 x 1.5	0.09	50	**166447**
57 - 63	2"	20 x 1.5	0.10	50	**166456**
64 - 71		20 x 1.5	0.11	25	**166465**
74 - 84	2 1/2"	20 x 1.5	0.12	25	**166474**
83 - 90	3"	20 x 2.0	0.15	25	**166483**

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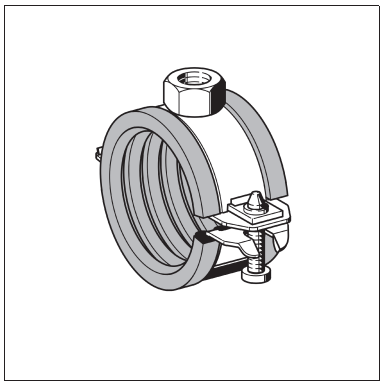


Ratio S M8

Group: 1234

Application

One-piece pipe clamp with thread connection M8 for pipes for M&E services. For soundproof wall, floor and ceiling installation (as per DIN 4109).

With time-saving quick-set clip.

Installation

After pressing together both parts of the clamp, the clamping bolt head must be located behind the angled profiles; then tighten clamping bolt (2 Nm).

Technical Data

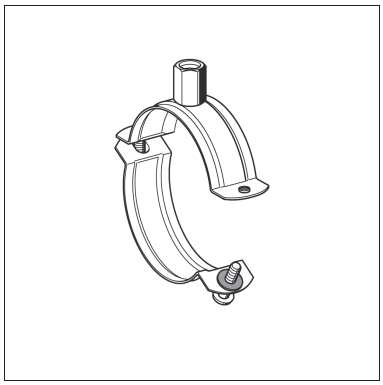
Max. perm. working load (tension)*	0.37 kN
Material:	
Clamp:	Steel (20 mm x 1.0 mm), electro-galvanised
Sound absorption lining:	SBR/EPDM, black (see chapter "Sound Absoprtion Products"). Sound absorption up to 17 dB(A)

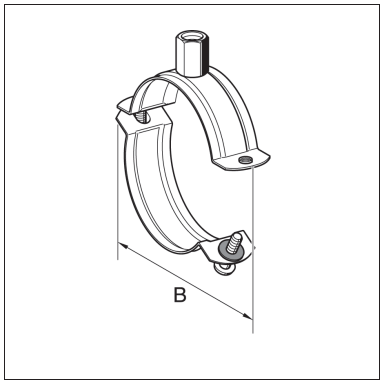
* The recommended load is calculated using specific statistical methods relating to break load and is designed to restrict deflection to 1.5 mm or 2 % of the maximum applicable clamping diameter.

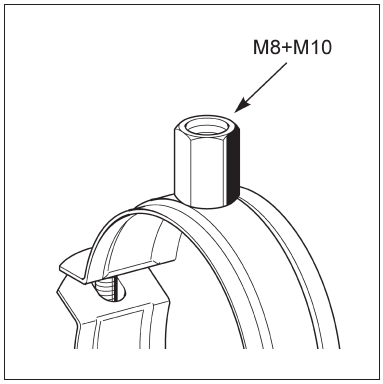
Approvals

This product has been awarded the RAL quality mark "pipe supports" and is subject to continuous external monitoring according to RAL GZ-655.

Size range [mm]	NB	W [kg]	Quantity [pack]	Part number
10 - 12	10/12 mm	0.03	100	**166669**
13 - 16	15 mm	0.03	100	**157339**
17 - 19	3/8"	0.03	100	**157366**
20 - 24	1/2"	0.04	100	**157348**
25 - 30	3/4"	0.04	100	**157357**
31 - 38	1"	0.05	100	**157320**
40 - 46	1 1/4"	0.05	50	**157311**
48 - 51	1 1/2"	0.06	50	**157302**
58 - 63	2"	0.06	50	**191864**







Duo Clamp SRS

Group: 1223

Application

Two-piece pipe clamp with double thread connection (M8/M10) for the installation of pipelines.

Scope of delivery

Supplied with two bolts partially mounted on one side and therefore ready for immediate installation. The clamping bolt on the open side is retained by a plastic washer, thus preventing any accidental unscrewing.

Technical Data

Size [mm]	Max. adm. load (tension)	Tightening torque [Nm]
13 - 73	0.6 kN	2
75 - 167	2.5 kN	2

Material: Steel, electro-galvanised

Size range [mm]	Material W x th [mm]	W [kg]	Quantity [pack]	Part number
13 - 18	20 x 1.5	0.04	100	**173216**
19 - 22	20 x 1.5	0.05	100	**173225**
23 - 26	20 x 1 .5	0.05	100	**111470**
27 - 30	20 x 1.5	0.05	100	**173234**
32 - 36	20 x 1.5	0.05	100	**173243**
40 - 44	20 x 1.5	0.06	50	**173252**
48 - 54	20 x 1.5	0.07	50	**173261**
55 - 59	20 x 1.5	0.08	50	**182990**
60 - 66	20 x 1.5	0.08	50	**173279**
68 - 73	20 x 1.5	0.09	25	**173288**
75 - 80	25 x 2.0	0.15	25	**173297**
84 - 89	25 x 2.0	0.16	25	**173306**
90 - 98	25 x 2.0	0.16	25	**186023**
94 - 101	25 x 2.0	0.17	25	**186032**
102 - 108	25 x 2.0	0.18	25	**173315**
110 - 115	25 x 2.0	0.18	25	**173324**
118 - 125	25 x 2.5	0.24	25	**186041**
129 - 136	25 x 2.5	0.26	25	**191387**
138 - 144	25 x 2.5	0.27	25	**191396**
144 - 153	25 x 2.5	0.29	25	**191405**
159 - 167	25 x 2.5	0.30	25	**191414**

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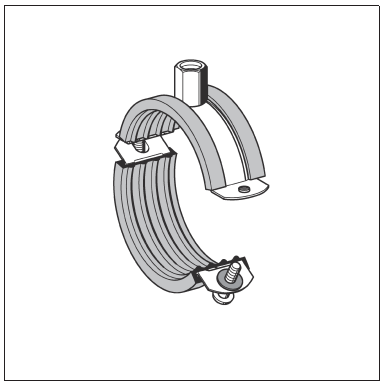
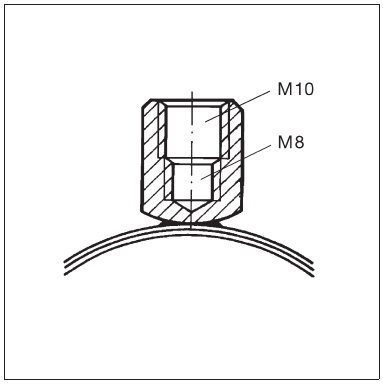




Duo Clamp SRS with Lining

Group: 1225

Application

Two-piece pipe clamp with double thread connection (M8/M10) and sound absorption lining for the installation of pipelines. Applicable for sound-absorbed installations according to DIN 4109 specifications.

Scope of delivery

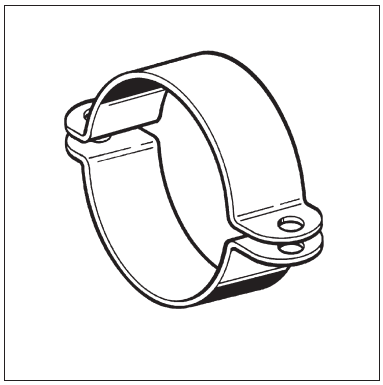
Supplied with two bolts partially mounted on one side and therefore ready for immediate installation. The clamping bolt on the open side is retained by a plastic washer, thus preventing any accidental unscrewing.

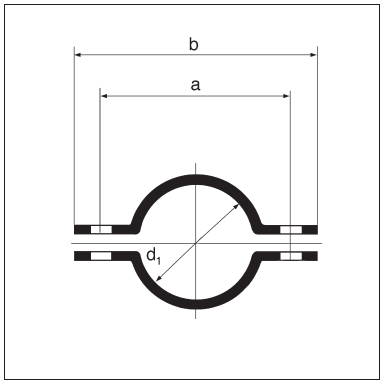
Technical Data

Size [mm]	Working load (tension)	Tightening torque [Nm]
12 - 64	0.6 kN	2
67 - 219	2.5 kN	2

Material:
Clamp: Steel, electro-galvanised
Sound absorption lining: SBR/EPDM (black)

Size range [mm]	NB	Material W x th [mm]	W [kg]	Quantity [pack]	Part number
12 - 15	1/4"	20 x 1.5	0.05	100	**159368**
15 - 19	3/8"	20 x 1.5	0.05	100	**159377**
20 - 23	1/2"	20 x 1.5	0.06	100	**159386**
25 - 28	3/4"	20 x 1.5	0.06	100	**159395**
32 - 35	1"	20 x 1.5	0.07	100	**159401**
40 - 45	1 1/4"	20 x 1.5	0.09	50	**159614**
48 - 52	1 1/2"	20 x 1.5	0.09	50	**159623**
52 - 58		20 x 1.5	0.10	50	**179003**
60 - 64	2"	20 x 1.5	0.11	50	**159632**
67 - 72		25 x 2.0	0.19	25	**179012**
73 - 80	2 1/2"	25 x 2.0	0.20	25	**159641**
81 - 87		25 x 2.0	0.21	25	**192665**
86 - 91	3"	25 x 2.0	0.21	25	**159650**
102 - 108		25 x 2.0	0.25	25	**179021**
110 - 115	4"	25 x 2.5	0.30	25	**159669**
120 - 128		25 x 2.5	0.34	25	**191459**
135 - 143		25 x 2.5	0.37	25	**191477**
149 - 161		25 x 2.5	0.39	25	**191486**
162 - 170		25 x 2.5	0.40	25	**191468**
198 - 207		25 x 2.5	0.48	25	**191495**
207 - 219		25 x 2.5	0.52	25	**191504**





Stabil RB-A

Group: 1260

Application

For particularly high static requirements in plant construction. Design similar to DIN 3567. The perforations on both sides allow the application of standardised bolts and threaded rods out of the Sikla product range.
If fixed on both sides by threaded rods M12 or M16 or threaded tubes, we recommend the application of the Support Cone SMD 1. In addition to be applied for the design of Fixed Points or Sliding Supports by welding to T-Sections.

Scope of delivery

Two-piece pipe clamp delivered without bolts.
For suitable bolts, please see chapter "Fixings and Fastenings".

Technical Data

Admissible load valid with fixation on both sides

Size range [mm]	max. adm. load (tension) [kN]	Tightening torque [Nm]
13 - 49	11.0	20
57 - 89	15.5	40
90 - 169	22.0	40
188 - 610	42.0	100

The max. permissible load capacity of the connected parts (e.g. anchors) shall be considered.

The max. adm. load capacity is determined by the application of statistical methods resulting from the breaking loads, under observance of a max. adm. deformation of 1.5 mm resp. 2% of the max. stretchable pipe dia.

Material: Steel, surface black

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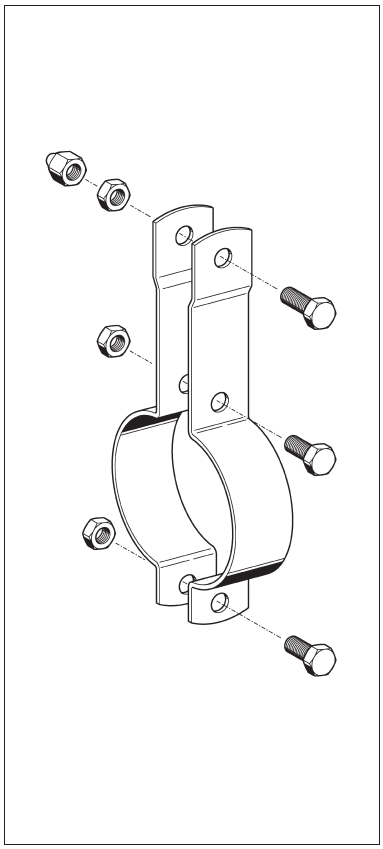
Size d_1 [mm]	Size range [mm]	Material W x th [mm]	Recommended clamping bolts	a [mm]	b [mm]	W [kg]	Quantity [pack]	Part number
18	13 - 18	30 x 5.0	M10 x 40	54	83	0.17	25	**110309**
22	17 - 22	30 x 5.0	M10 x 40	56	85	0.18	25	**110310**
27	23 - 27	30 x 5.0	M10 x 40	63	92	0.20	25	**110312**
34	30 - 34	30 x 5.0	M10 x 40	71	100	0.22	25	**110403**
38	34 - 38	30 x 5.0	M10 x 40	76	105	0.24	25	**110314**
44	40 - 44	30 x 5.0	M10 x 40	83	112	0.26	25	**110404**
49	45 - 49	30 x 5.0	M10 x 40	88	117	0.28	25	**110316**
61	57 - 61	40 x 5.0	M12 x 40	106	139	0.42	25	**110319**
70	66 - 70	40 x 5.0	M12 x 40	116	149	0.46	25	**110320**
77	73 - 77	40 x 5.0	M12 x 40	123	156	0.53	25	**110321**
89	85 - 89	40 x 5.0	M12 x 40	135	168	0.52	25	**110322**
104	90 - 104	50 x 5.0	M12 x 60	146	179	0.75	10	**110323**
109	103 - 109	50 x 5.0	M12 x 60	155	188	0.83	10	**110324**
115	109 - 115	50 x 5.0	M12 x 60	161	194	0.87	10	**110325**
133	119 - 133	50 x 5.0	M12 x 60	176	209	0.92	10	**110327**
140	134 - 140	50 x 5.0	M12 x 60	187	220	1.01	10	**110328**
162	156 - 162	50 x 5.0	M12 x 60	209	242	1.15	10	**111733**
169	163 - 169	50 x 5.0	M12 x 60	216	249	1.18	10	**110330**
194	188 - 194	50 x 8.0	M12 x 60	252	285	2.17	1	**110332**
220	214 - 220	50 x 8.0	M12 x 60	279	312	2.39	1	**110335**
254	248 - 254	50 x 8.0	M16 x 60	320	363	2.81	1	**110336**
267	261 - 267	50 x 8.0	M16 x 60	333	376	2.94	1	**110337**
273	265 - 273	60 x 8.0	M16 x 60	339	382	3.56	1	**110338**
324	316 - 324	60 x 8.0	M16 x 60	390	433	4.12	1	**110341**
356	350 - 356	60 x 8.0	M16 x 60	422	465	4.36	1	**110342**
368	360 - 368	60 x 8.0	M16 x 60	434	477	4.67	1	**110343**
407	402 - 407	70 x 8.0	M16 x 60	473	516	5.94	1	**110344**
419	412 - 419	70 x 8.0	M16 x 60	485	528	6.32	1	**110345**
457	450 - 457	70 x 8.0	M16 x 60	523	566	6.87	1	**110346**
508	501 - 508	70 x 8.0	M16 x 60	575	618	7.32	1	**110347**
521	512 - 521	70 x 8.0	M16 x 60	588	631	7.86	1	**110348**
535	529 - 535	70 x 8.0	M16 x 60	602	645	7.93	1	**110442**
610	603 - 610	70 x 8.0	M16 x 60	677	720	8.79	1	**110443**



Stabil Type C

Group: 1243

Application

Pipe clamp for use in plant construction, based on the DIN 3567 Type C standard for suspension elements. The cross-sections are in line with the requirements of the VdS.

Scope of delivery

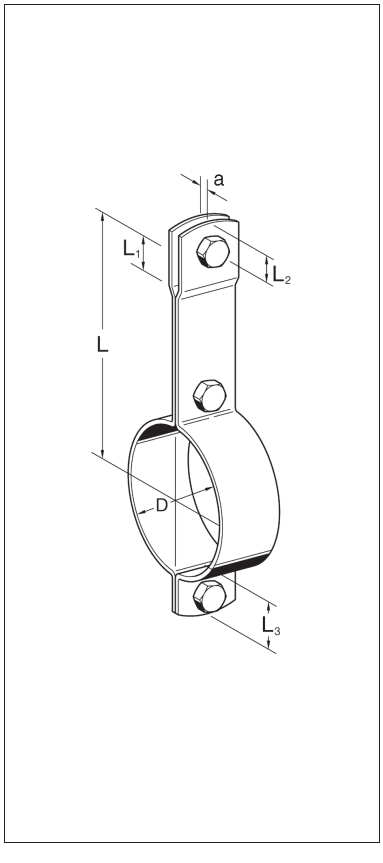
With bolts and nuts pre-mounted: M10, class 8.8.

Technical Data

Material: Steel, electro-galvanised

DN	Working load (tension)
15 - 32	10 kN
40 - 200	15 kN

DN	D [mm]	Material [mm]	L [mm]	a [mm]	L_1 [mm]	L_2 [mm]	L_3 [mm]
15	22	25 x 3	81	7	22	17	25
20	27	25 x 3	84	7	22	17	25
25	34	25 x 3	87	7	22	17	25
32	43	25 x 3	92	7	22	17	25
40	50	40 x 3	95	7	22	17	25
50	62	40 x 3	111	7	22	17	25
65	78	40 x 3	134	7	22	17	25
80	91	40 x 3	156	7	22	17	30
100	116	40 x 4	188	7	22	17	30
125	148	40 x 4	204	7	22	17	30
150	173	40 x 4	217	7	22	17	30
200	225	40 x 4	243	7	22	17	30



NB	OD of pipe [mm]	W [kg]	Quantity [pack]	Part number
15	21.3	0.27	50	**156523**
20	26.9	0.30	50	**156532**
25	33.7	0.31	50	**156541**
32	42.4	0.30	50	**156550**
40	48.3	0.44	25	**152404**
50	60.3	0.51	25	**152413**
65	76.1	0.56	25	**152422**
80	88.9	0.65	25	**152431**
100	114.3	0.78	10	**152440**
125	139.7	1.08	10	**152459**
150	168.3	1.18	10	**152468**
200	219.1	1.39	10	**152477**

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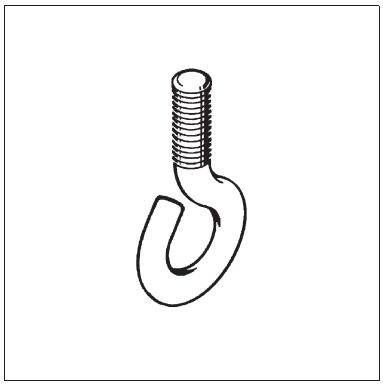
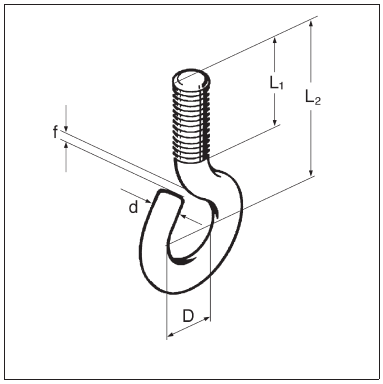




Ring Bolt SCR

Group: 1305

Application

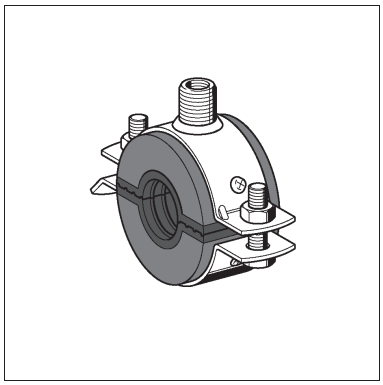
For suspension elements in conjunction with Pipe Clamp Stabil Type C.

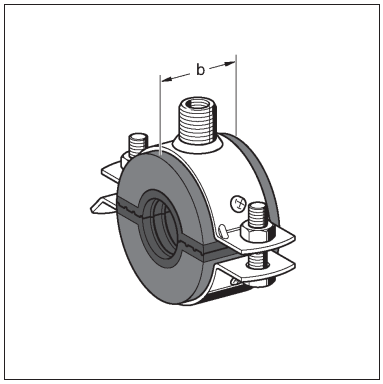
Technical Data

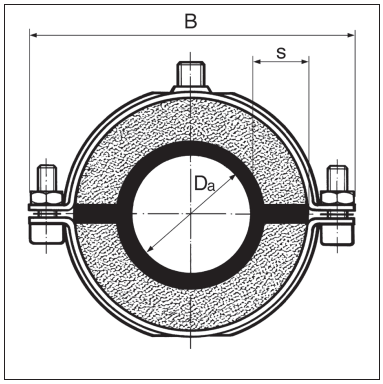
Working load (tension): 15 kN
Load figure applies to closed and welded conditions only.

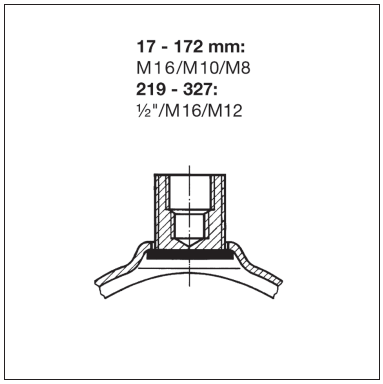
Material: Steel, black, open

Type	D [mm]	d [mm]	L_2 [mm]	L_1 [mm]	f [mm]	W [kg]	Quantity [pack]	Part number
M12 x 40	30	10	75	40	10	0.15	50	**152981**
M16 x 40	30	14	79	40	10	0.24	25	**152972**









Chilled Water Clamp SKS Top-2C

Group: 1250

Application

Used for cold-water pipeline systems and refrigeration installations. Fixation of pipe lines degenerated from sound and vibration.
First class sound absorption by means of soft foam.
One size covers several pipe dimensions.
Permissible pipe dia. tolerances are securely adjusted by the elastomer part which also prevents from condensation which may occur due to slots.
No sealant is needed - the smooth adhesion of the pipe insulation at the front surface is possible.
Suitable also for heavy loads.

Scope of delivery

The insulation insert is firmly integrated in the Stabil Clamp. With inserted and welded 3G triple thread nut, up to size 70 - 75 with joint.
Retaining and clamping bolts are inserted on both sides of the lower part and cannot fall out due to a plastic washer. The nuts for the retaining bolts are welded to the other clamp part up to size 168 - 172.
Multifaceted connection options via the external thread of the 3G triple thread nut with Adapter AD f/f.

Technical Data

Material:	
Insulating component:	Polyurethane (PUR) foam sp.gr. 250 kg/m^3
Pipe clamp:	Steel, galvanised
Compression strength:	0.7 N/mm^2 (for static loads)
Diffusion resistance:	The closed-cell structure of the PUR serves as a durable barrier, which develops through the total thickness of the insulation
Thermal conductivity:	λ = 0.042 W/mK at 10°C λ = 0.043 W/mK at 20°C λ = 0.044 W/mK at 30°C λ = 0.045 W/mK at 40°C
Temperature range:	From -50°C up to +110°C, short-term excess temperature permissible
Insulation insert:	**Up to 25.3 dB(A)** **Up to 26.3 dB(A)** for system testing
Fire resistance:	Material Category B2 (DIN 4102) no fire transmission

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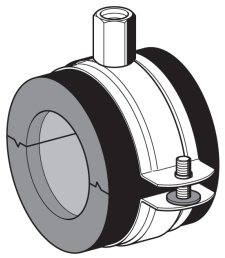
Type	NB	Ins. insert b x s [mm]	B [mm]	W [kg]	Quantity [pack]	Part number
17 - 22	3/8" - 1/2"	40 x 20	104	0.20	50	**191207**
23 - 26		40 x 20	111	0.20	50	**194980**
27 - 32	3/4"	40 x 20	111	0.20	50	**191216**
33 - 38	1"	40 x 20	117	0.20	50	**191225**
38 - 42		40 x 20	169	0.43	25	**194997**
42 - 47	1 1/4"	40 x 30	169	0.45	25	**191234**
48 - 54	1 1/2"	40 x 30	169	0.45	25	**191243**
57 - 62	2"	50 x 30	190	0.55	25	**191252**
63 - 68		50 x 30	190	0.55	25	**195000**
70 - 75		50 x 30	190	0.55	25	**191261**
76 - 81	2 1/2"	50 x 30	207	0.90	25	**191279**
89 - 94	3"	50 x 30	222	1.00	25	**191288**
107 - 112		60 x 40	263	1.30	10	**191297**
113 - 117	4"	60 x 40	273	1.43	10	**191306**
125 - 128		60 x 40	301	1.45	10	**195048**
133 - 137		60 x 40	295	1.49	10	**191315**
138 - 142	5"	60 x 40	295	1.53	10	**191324**
157 - 161		60 x 40	329	1.65	10	**191333**
168 - 172	6"	60 x 40	329	1.70	10	**191342**
219 - 222	8"	100 x 60	428	3.93	1	**191351**
272 - 275	10"	100 x 60	481	4.48	1	**191369**
324 - 327		100 x 60	534	5.18	1	**191378**



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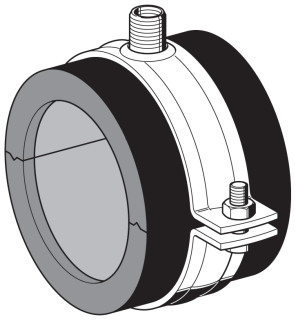

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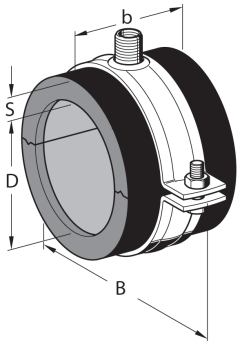


Chilled Water Clamp LKS H / M

Group: 1255

Application

Suitable for secure prevention of condensation water at the pipe support location of refrigeration and cold-water pipelines. An optimal diffusion-tight connection with the pipe insulation is easily and safely achieved by fixing usual insulation materials to the clamp faces using adhesive. Recommended up to -0°C at normal ambient condition.

Scope of delivery

Consisting of pipe clamp and insulation insert. The one-piece insulation insert comprising two joined PUR elements forms a comprehensive connection between PUR element and pipe clamp all around the pipe.
The outer edges of the PUR elements are equipped with elastomer foam and coated by a black PVC foil.

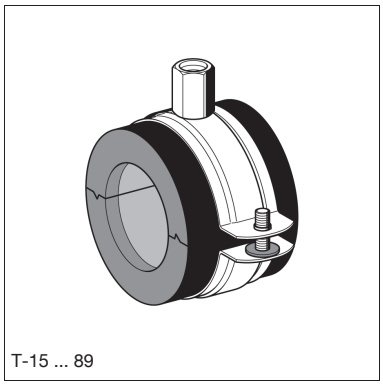
Type	Nominal thickness of the insulation [mm]	Size	Length of PUR element b [mm]
LKS H	13	15 - 89 102 - 168	50 100
LKS M	19	15 - 89 102 - 273	50 100

Technical Data

The unsupported lengths as listed in DIN 1988 may be applied for types LKS H and LKS M 15 to 168.

Clamp material:	Steel, electro-galvanised
Insulation insert:	
PUR core:	Specific gravity 80 or 120 kg/m^3
Thermal conductivity:	λ = 0.024 - 0.026 W/(mK) at 0°C λ = 0.038 W/(mK) at 10°C λ = 0.040 W/(mK) at 40°C
Steam diffusion resistance factor:	μ ≥ = 7000
Fire resistance:	B2 (DIN 4102)
Temperature range:	-40°C up to +105°C
Insulation insert:	Up to 18 dB(A)
Storage temperature:	≥ 10°C
Storage period:	1 year

Type	Pipe Ø D [mm]	B [mm]	Insulation thickness S [mm]	Thread connection	W [kg]	Quantity [pack]	Part number
LKS H-15	15.0	76.0	13.0	M8/M10	0.07	48	**184916**
LKS H-18	18.0	76.0	13.0	M8/M10	0.07	48	**184925**
LKS H-22	22.0	91.5	13.0	M8/M10	0.08	36	**184934**
LKS H-25	25.0	91.5	13.0	M8/M10	0.08	30	**184943**
LKS H-28	28.0	99.0	13.5	M8/M10	0.09	30	**184952**
LKS H-30	30.0	99.0	13.5	M8/M10	0.09	30	**184961**
LKS H-35	35.0	105.0	13.5	M8/M10	0.09	30	**184970**
LKS H-38	38.0	105.0	14.0	M8/M10	0.10	30	**184979**
LKS H-42	42.0	112.0	14.0	M8/M10	0.10	24	**184988**
LKS H-44	44.5	112.0	14.0	M8/M10	0.17	24	**184997**
LKS H-48	48.3	125.0	14.0	M8/M10	0.17	24	**185006**
LKS H-54	54.0	134.0	14.0	M8/M10	0.19	24	**185015**
LKS H-57	57.0	134.0	15.0	M8/M10	0.19	24	**185024**
LKS H-60	60.3	146.5	15.0	M8/M10	0.20	24	**185033**
LKS H-64	64.0	146.5	15.0	M8/M10	0.20	18	**185042**
LKS H-70	70.0	146.5	15.0	M8/M10	0.21	18	**185051**
LKS H-76	76.1	151.0	15.0	M8/M10	0.22	18	**185060**
LKS H-80	80.0	159.5	15.0	M8/M10	0.23	18	**185069**
LKS H-89	88.9	173.0	15.0	M8/M10	0.29	18	**185078**
LKS H-102	101.6	186.0	15.5	M8/M10	0.32	6	**185087**
LKS H-108	108.0	193.0	15.5	M8/M10	0.34	6	**185096**
LKS H-114	114.3	193.0	15.5	M8/M10	0.35	6	**185105**
LKS H-133	133.0	215.0	16.0	M8/M10	0.39	6	**185114**
LKS H-139	139.7	240.0	16.0	M12/M16/$^1/_2$"	1.02	6	**185123**
LKS H-160	159.0	273.0	16.0	M12/M16/$^1/_2$"	1.17	6	**185132**
LKS H-168	168.3	284.0	16.0	M12/M16/$^1/_2$"	1.22	6	**185141**
LKS M-15	15.0	91.5	19.0	M8/M10	0.08	42	**185150**
LKS M-18	18.0	99.0	19.5	M8/M10	0.09	42	**185159**
LKS M-22	22.0	105.0	19.5	M8/M10	0.10	42	**185168**
LKS M-25	25.0	105.0	19.5	M8/M10	0.09	42	**185177**
LKS M-28	28.0	112.0	20.0	M8/M10	0.10	36	**185186**
LKS M-30	30.0	112.0	20.0	M8/M10	0.10	36	**185195**
LKS M-35	35.0	125.0	20.0	M8/M10	0.17	24	**185204**
LKS M-38	38.0	125.0	21.5	M8/M10	0.17	24	**185213**
LKS M-42	42.0	134.0	21.5	M8/M10	0.18	24	**185222**
LKS M-44	44.5	134.0	21.5	M8/M10	0.20	24	**185231**
LKS M-48	48.3	146.5	21.5	M8/M10	0.20	18	**185240**
LKS M-54	54.0	146.5	21.5	M8/M10	0.20	18	**185249**
LKS M-57	57.0	151.0	22.0	M8/M10	0.22	18	**185258**
LKS M-60	60.3	151.0	22.0	M8/M10	0.22	18	**185267**
LKS M-64	64.0	151.0	22.0	M8/M10	0.22	18	**185276**
LKS M-70	70.0	159.5	22.0	M8/M10	0.24	18	**185285**
LKS M-76	76.1	173.0	22.0	M8/M10	0.30	18	**185294**
LKS M-80	80.0	173.0	22.0	M8/M10	0.30	18	**185303**
LKS M-89	88.9	186.0	22.0	M8/M10	0.30	10	**185312**
LKS M-102	101.6	203.0	22.5	M8/M10	0.39	10	**185321**
LKS M-108	108.0	203.0	22.5	M8/M10	0.40	10	**185330**
LKS M-114	114.3	215.0	22.5	M8/M10	0.41	8	**185339**
LKS M-133	133.0	263.0	23.0	M8/M10	0.47	6	**185348**
LKS M-139	139.7	273.0	23.0	M12/M16/$^1/_2$"	1.19	6	**185357**
LKS M-160	159.0	284.0	23.0	M12/M16/$^1/_2$"	1.27	6	**185366**
LKS M-168	168.3	295.0	23.0	M12/M16/$^1/_2$"	1.29	6	**185375**
LKS M-180	180.0	307.0	25.0	M12/M16/$^1/_2$"	1.35	6	**113340**
LKS M-200	200.0	321.0	25.0	M12/M16/$^1/_2$"	1.44	6	**113342**
LKS M-219	219.0	352.0	23.0	M12/M16/$^1/_2$"	1.62	6	**185384**
LKS M-225	225.0	355.0	25.0	M12/M16/$^1/_2$"	1.64	6	**113341**
LKS M-250	250.0	374.0	25.0	M12/M16/$^1/_2$"	1.69	2	**113343**
LKS M-273	273.0	440.0	23.0	M16	2.77	2	**185393**



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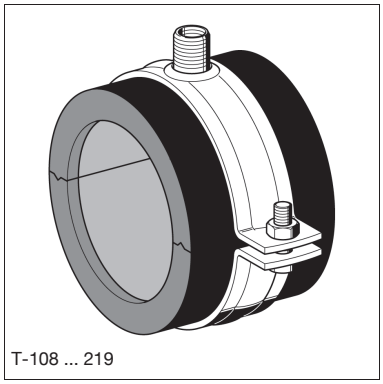

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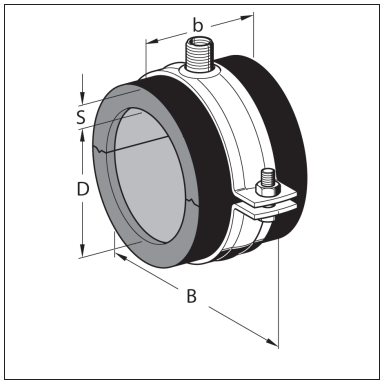

Chilled Water Clamp LKS T

Group: 1255

Application

Suitable for secure prevention of condensation water at the pipe support location of refrigeration and cold-water pipelines.

An optimal diffusion-tight connection with the pipe insulation is easily and safely achieved by fixing usual insulation materials to the clamp faces using adhesive. Recommended up to -0°C at normal ambient condition.

Scope of delivery

Consisting of pipe clamp and insulation insert. The one-piece insulation insert comprising two joined PUR elements forms a comprehensive connection between PUR element and pipe clamp all around the pipe.
The outer edges of the PUR elements are equipped with elastomer foam and coated by a black PVC foil.

Type	Nominal thickness of the insulation [mm]	Size	Length of PUR-element b [mm]
LKS T	32	15 - 70 76 - 273	50 100

Technical Data

Up to type LKS T-168 the unsupported lengths as listed in DIN 1988 may be applied.

Clamp material:	Steel, electro-galvanised
Insulation insert:	
PUR-core:	Specific gravity 80 or 120 kg/m^3
Thermal conductivity:	λ = 0.024 - 0.026 W/(mK) at 0°C λ = 0.038 W/(mK) at 10°C λ = 0.040 W/(mK) at 40°C
Steam diffusion resistance factor:	μ ≥ = 7000
Fire resistance:	B2 accord. to DIN 4102
Temperature range:	-40°C up to +105°C
Insulation insert:	Up to 18 dB(A)
Storage temperature:	≥ 10°C
Storage period:	1 year

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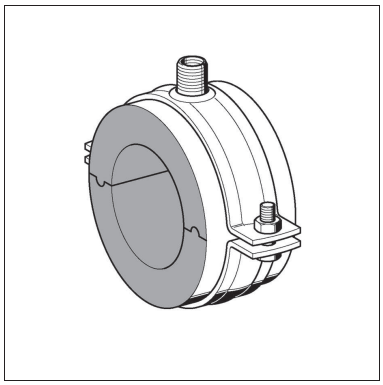
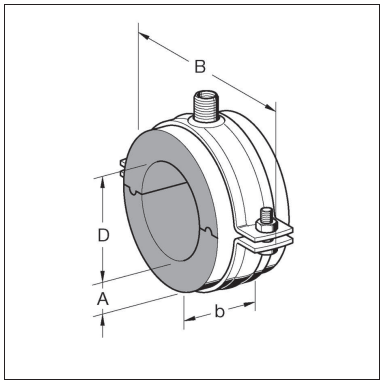
Type	Pipe Ø D [mm]	B [mm]	Insulation thickness S [mm]	Thread connection	W [kg]	Quantity [pack]	Part number
LKS T-15	15.0	125	31	M8/M10	0.17	24	**110514**
LKS T-18	18.0	125	31	M8/M10	0.17	24	**110515**
LKS T-22	22.0	134	31	M8/M10	0.18	24	**110516**
LKS T-25	25.0	134	31	M8/M10	0.18	24	**110517**
LKS T-28	28.0	141	31	M8/M10	0.19	24	**110518**
LKS T-30	30.0	146.5	34	M8/M10	0.20	18	**110519**
LKS T-35	35.0	151	34	M8/M10	0.21	18	**110520**
LKS T-38	38.0	159.5	36	M8/M10	0.22	18	**110521**
LKS T-42	42.0	159.5	36	M8/M10	0.23	18	**110522**
LKS T-44	44.5	173	37	M8/M10	0.28	18	**110523**
LKS T-48	48.3	173	37	M8/M10	0.29	18	**110524**
LKS T-54	54.0	186	38	M8/M10	0.31	12	**110525**
LKS T-57	57.0	186	38	M8/M10	0.31	12	**110526**
LKS T-60	60.3	186	38	M8/M10	0.31	12	**110527**
LKS T-64	64.0	193	39	M8/M10	0.33	10	**110528**
LKS T-70	70.0	203	39	M8/M10	0.35	10	**110529**
LKS T-76	76.1	215	42	M8/M10	0.50	8	**110530**
LKS T-80	80.0	215	42	M8/M10	0.50	8	**110531**
LKS T-89	88.9	229	42	M8/M10	0.54	6	**110532**
LKS T-108	108.0	273	42	M12/M16/$^1/_2$"	1.25	6	**110534**
LKS T-114	114.0	284	43	M12/M16/$^1/_2$"	1.31	6	**110535**
LKS T-133	133.0	304	44	M12/M16/$^1/_2$"	1.44	6	**110536**
LKS T-139	137.9	304	43	M12/M16/$^1/_2$"	1.45	6	**110537**
LKS T-160	159.0	329	45	M12/M16/$^1/_2$"	1.58	4	**110538**
LKS T-168	168.3	340	45	M12/M16/$^1/_2$"	1.73	4	**110539**
LKS T-219	219.0	395	46	M12/M16/$^1/_2$"	1.93	2	**110540**
LKS T-273	273.0	432	45	M16	3.53	2	**110541**





Chilled Water Clamp CMP

Group: 1255

Application

Chilled Water Clamp with insulation cores of various thickness for fixing cold-water pipeline systems and chilled water installations. Prevents temperature bridging and condensation between pipe and pipe clamp. For steel pipes from outside dia. 114 mm on, we recommend the use of a Load Plate.

Scope of delivery

Insulation insert: Two interlocking PUR segments joined by outer aluminium foil.

Pipe Clamp: Two-piece Sikla Pipe Clamp with multi-thread connecting nut. See the table below for direct connection options. For adapter/ reducer-based connection clamp and insulation insert are delivered loose.

Technical Data

Ø D pipe [mm]	Max. recommended distance between 2 supports [m]*	Suitable Load Plate
21	1.50	-
27, 34	2.00	-
42, 48, 60	2.50	-
76, 89, 102, 108	3.00	-
114, 133, 140	4.00	CMP/PR 240
159, 168, 219	4.00	CMP/PR 340
273	4.00	CMP/PR 400

* The values indicated are based on the use of the relevant Load Plate from outside dia. 114 mm on.

Insulation core:	PUR, specific gravity 80 kg/m³
Vapour shield:	Aluminium foil
Temperature range:	0°C up to +105°C
Thermal conductivity:	λ = 0.024 - 0.026 W/(mk) at 0°C
	λ = 0.038 W(mk) at 10°C
	λ = 0.040 W(mk) at 10°C
Fire resistance:	Insulation and vapour shield: material category B2
Clamp material:	Steel, electro galvanised

In case you require dimensions or material other than those listed, please contact us.

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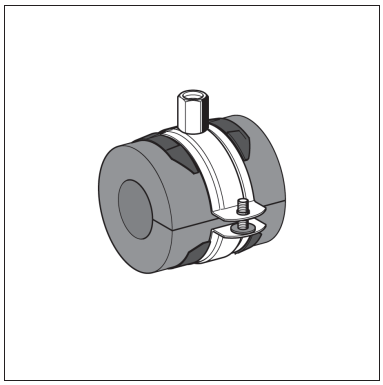
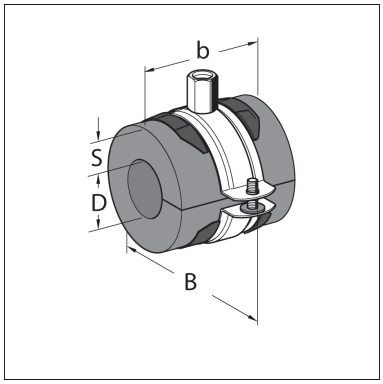
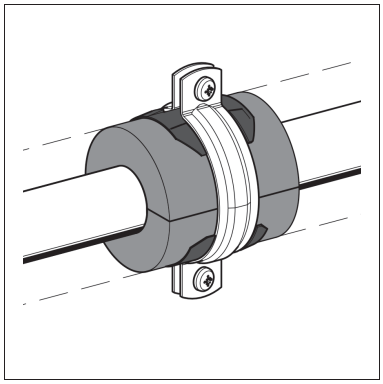
Type	Pipe Ø D [mm]	Thread connection	b [mm]	B [mm]	W [kg]	Quantity [pack]	Part number
CMP 21/25	21	M8/M10	75	112.0	0.11	25	**186896**
CMP 27/25	27	M8/M10	75	125.0	0.18	25	**186905**
CMP 34/25	34	M8/M10	75	134.0	0.19	25	**186914**
CMP 42/25	42	M8/M10	75	141.0	0.21	25	**186923**
CMP 49/25	49	M8/M10	75	146.5	0.21	25	**186932**
CMP 60/25	60	M8/M10	75	159.5	0.24	25	**186941**
CMP 76/25	76	M8/M10	75	173.0	0.27	25	**186959**
CMP 89/25	89	M12/M16/$^1/_2$"	75	207.0	0.84	10	**186968**
CMP 102/25	102	M12/M16/$^1/_2$"	75	222.0	0.84	10	**186977**
CMP 108/25	108	M12/M16/$^1/_2$"	75	232.0	0.94	10	**186986**
CMP 114/25	114	M12/M16/$^1/_2$"	75	232.0	0.95	10	**186995**
CMP 133/25	133	M12/M16/$^1/_2$"	100	263.0	1.09	10	**187004**
CMP 140/25	140	M12/M16/$^1/_2$"	100	273.0	1.16	10	**187013**
CMP 159/25	159	M12/M16/$^1/_2$"	100	295.0	1.24	10	**187022**
CMP 168/25	168	M12/M16/$^1/_2$"	100	304.0	1.36	10	**187031**
CMP 219/25	219	M12/M16/$^1/_2$"	100	352.0	1.49	10	**187040**
CMP 273/25	273	M16	100	440.0	2.82	10	**187049**
CMP 21/30	21	M8/M10	75	125.0	0.12	25	**187058**
CMP 27/30	27	M8/M10	75	134.0	0.20	25	**187067**
CMP 34/30	34	M8/M10	75	141.0	0.21	25	**187076**
CMP 42/30	42	M8/M10	75	151.0	0.23	25	**187085**
CMP 49/30	49	M8/M10	75	151.0	0.23	25	**187094**
CMP 60/30	60	M8/M10	75	173.0	0.27	25	**187103**
CMP 76/30	76	M12/M16/$^1/_2$"	75	207.0	0.84	10	**187121**
CMP 89/30	89	M12/M16/$^1/_2$"	75	222.0	0.85	10	**187130**
CMP 108/30	108	M12/M16/$^1/_2$"	75	240.0	0.96	10	**187148**
CMP 114/30	114	M12/M16/$^1/_2$"	75	263.0	1.07	10	**187157**
CMP 133/30	133	M12/M16/$^1/_2$"	100	273.0	1.18	10	**187166**
CMP 140/30	140	M12/M16/$^1/_2$"	100	284.0	1.25	10	**187175**
CMP 159/30	159	M12/M16/$^1/_2$"	100	304.0	1.38	10	**187184**
CMP 168/30	168	M12/M16/$^1/_2$"	100	304.0	1.39	10	**187193**
CMP 219/30	219	M12/M16/$^1/_2$"	100	352.0	1.53	10	**187202**
CMP 21/40	21	M8/M10	75	151.0	0.23	25	**187220**
CMP 27/40	27	M8/M10	75	151.0	0.24	25	**187229**
CMP 34/40	34	M8/M10	75	159.5	0.25	25	**187238**
CMP 42/40	42	M8/M10	75	173.0	0.28	25	**187247**
CMP 49/40	49	M10/M12/$^3/_8$"	75	190.0	0.50	25	**187256**
CMP 60/40	60	M12/M16/$^1/_2$"	75	207.0	0.86	10	**187265**
CMP 76/40	76	M12/M16/$^1/_2$"	75	232.0	0.97	10	**187283**
CMP 89/40	89	M12/M16/$^1/_2$"	75	240.0	0.97	10	**187292**
CMP 108/40	108	M12/M16/$^1/_2$"	75	273.0	1.17	10	**187310**
CMP 114/40	114	M12/M16/$^1/_2$"	75	273.0	1.18	10	**187319**
CMP 133/40	114	M12/M16/$^1/_2$"	100	295.0	1.30	10	**187328**
CMP 140/40	140	M12/M16/$^1/_2$"	100	304.0	1.42	10	**187337**
CMP 159/40	159	M12/M16/$^1/_2$"	100	329.0	1.60	10	**187346**
CMP 168/40	168	M12/M16/$^1/_2$"	100	329.0	1.61	10	**187355**
CMP 219/40	219	M12/M16/$^1/_2$"	100	382.0	1.96	10	**187364**
CMP 273/40	273	M16	100	471.0	2.94	10	**187373**







Chilled Water Clamp AKS

Group: 1258

Application

Suitable for secure prevention of condensation at the pipe support location of chilled-water and cold-water pipelines as well as insulation clamp for heating systems.
Suitable for soundproof installation according to DIN 4109.

Scope of delivery

Consisting of pipe clamp and insulation insert.

Installation

Enclose the insulation insert around the pipe, remove the protective paper strip on both sides of the insert and merge the longitudinal seam. Fix the pipe clamp in the centre of the plastic spacers. Lag the pipe insulation to each end of the insulation insert.

For horizontal installations to a wall-face, the plastic spacers on the insulation insert have to coincide with the pipe clamp flanges positioned over and under the pipe. Support distances see Installation Guidelines, chapter "Pipe support".

Technical Data

Material:	
Pipe clamp:	Steel, electro-galvanised
Insulation:	Elastomer foam
Elastomer foam:	
Length b:	80 mm
Thermal conductivity:	λ ≤ 0,038 W/(mK) at 0°C
Steam diffusion resistance factor:	μ ≥ 7.000
Material class:	B_L -s3, d0 (in overall system of identical Elastomer foam)
Temperature range:	0°C up to +110°C
Storage conditions:	In dry, clean rooms with humidity 50 - 70% and room temperature 0 - 35°C

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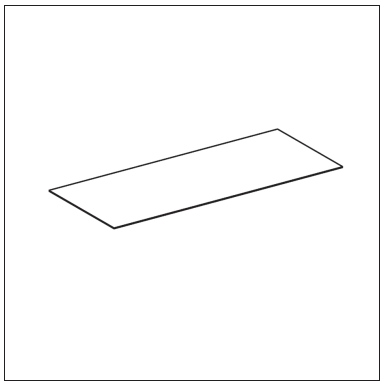
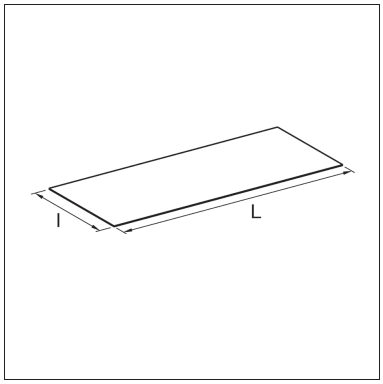
Type	Pipe Ø D [mm]	B [mm]	Insulation thickness S [mm]	Thread connection	W [kg]	Quantity [pack]	Part number
AKS 13-10	10.0	69	13	M8/M10	0.07	50	**113429**
AKS 13-12	12.0	76	13	M8/M10	0.08	50	**113430**
AKS 13-15	15.0	76	13	M8/M10	0.08	50	**113431**
AKS 13-18	18.0	76	13	M8/M10	0.08	50	**113432**
AKS 13-22	22.0	92	13	M8/M10	0.09	50	**113433**
AKS 13-25	25.0	92	13	M8/M10	0.09	50	**113434**
AKS 13-28	28.0	99	13	M8/M10	0.10	50	**113435**
AKS 13-30	30.0	99	13	M8/M10	0.10	50	**113436**
AKS 13-35	35.0	105	13	M8/M10	0.11	50	**113437**
AKS 13-42	42.0	112	13	M8/M10	0.12	30	**113438**
AKS 13-48	48.3	125	13	M8/M10	0.18	30	**113439**
AKS 13-54	54.0	125	13	M8/M10	0.18	30	**113440**
AKS 13-60	60.3	134	13	M8/M10	0.20	30	**113441**
AKS 19-10	10.0	92	19	M8/M10	0.09	50	**113446**
AKS 19-12	12.0	92	19	M8/M10	0.10	50	**113447**
AKS 19-15	15.0	99	19	M8/M10	0.11	50	**113448**
AKS 19-18	18.0	99	19	M8/M10	0.10	50	**113449**
AKS 19-22	22.0	105	19	M8/M10	0.11	50	**113450**
AKS 19-25	25.0	105	19	M8/M10	0.12	50	**113451**
AKS 19-28	28.0	112	19	M8/M10	0.12	50	**113452**
AKS 19-30	30.0	112	19	M8/M10	0.12	50	**113453**
AKS 19-35	35.0	125	19	M8/M10	0.18	40	**113454**
AKS 19-42	42.0	125	19	M8/M10	0.20	30	**113455**
AKS 19-48	48.3	134	19	M8/M10	0.21	30	**113456**
AKS 19-54	54.0	141	19	M8/M10	0.22	30	**113457**
AKS 19-60	60.3	147	19	M8/M10	0.24	20	**113458**
AKS 25-10	10.0	105	25	M8/M10	0.12	25	**113463**
AKS 25-12	12.0	105	25	M8/M10	0.13	25	**113464**
AKS 25-15	15.0	105	25	M8/M10	0.13	25	**113465**
AKS 25-18	18.0	112	25	M8/M10	0.13	25	**113466**
AKS 25-22	22.0	112	25	M8/M10	0.14	25	**113467**
AKS 25-25	25.0	125	25	M8/M10	0.20	30	**113468**
AKS 25-28	28.0	125	25	M8/M10	0.20	30	**113469**
AKS 25-30	30.0	125	25	M8/M10	0.20	30	**113470**
AKS 25-35	35.0	134	25	M8/M10	0.21	30	**113471**
AKS 25-42	42.0	141	25	M8/M10	0.25	20	**113472**
AKS 25-48	48.3	147	25	M8/M10	0.26	20	**113473**
AKS 25-54	54.0	151	25	M8/M10	0.27	20	**113474**
AKS 25-60	60.3	173	25	M8/M10	0.30	20	**113475**





Load Plate

Group: 1256

Scope of delivery
Load Plate delivered flat.

Technical Data
Material: Steel plate, electro galvanised

Type	Pipe Ø D [mm]	Dimension L x W x Th [mm]	Quantity [pack]	Part number
CMP/PR 240	114 - 140	240x100x0.5	1	**187382**
CMP/PR 340	159 - 219	340x100x0.5	1	**187391**
CMP/PR 400	273	400x100x0.5	1	**187400**

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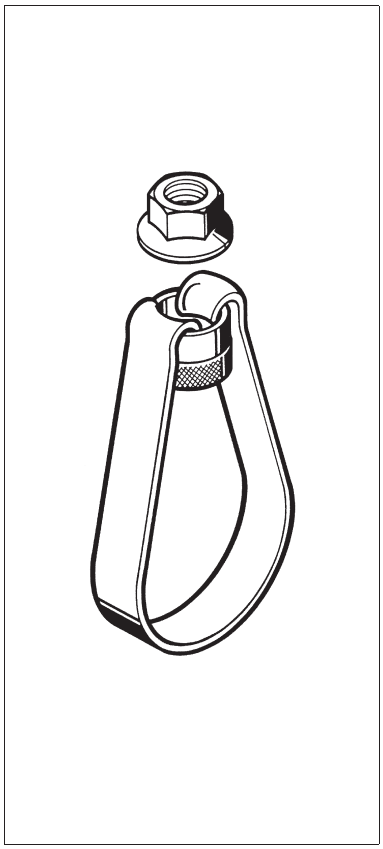
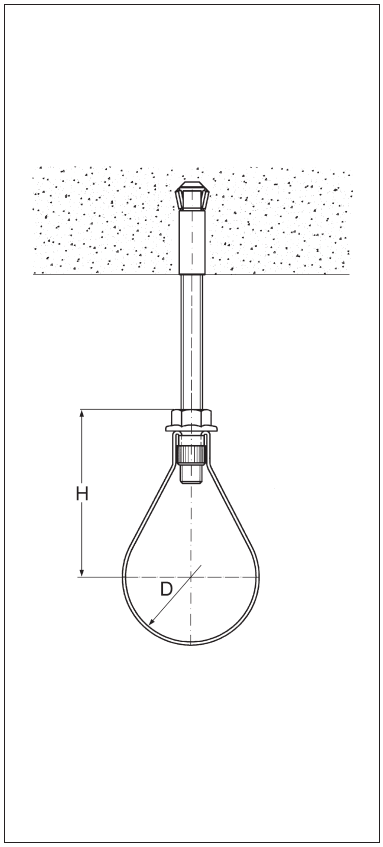




Pipe Loop RSL N

Group: 1115

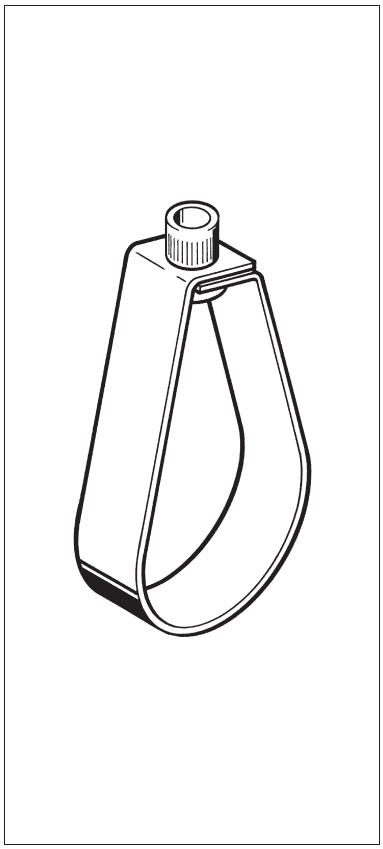
Application
For pipeline installations of fixed fire entinguishing systems, mainly used for Sprinkler systems.

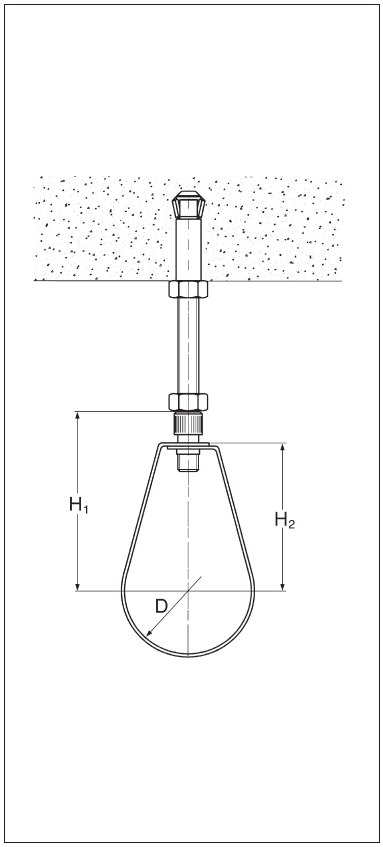
Scope of delivery
Pipe Loop with rounded edges. Flange nuts and cup nuts are included in loose form.

Technical Data
Material: Steel, galvanised as per DIN EN 10346

Approvals
FM and VdS (No. G4850025) approved

Type	NB	Connection	D [mm]	H [mm]	W [kg]	Quantity [pack]	Part number
26.9	3/4"	M8 (VdS)	27	65	0.05	100	**113336**
33.7	1"	M8 (VdS)	34	65	0.05	100	**102287**
42.4	1 1/4"	M8 (VdS)	43	65	0.05	50	**102296**
48.3	1 1/2"	M8 (VdS)	49	70	0.06	50	**102302**
60.3	2"	M8 (VdS)	61	79	0.06	50	**102311**
26.9	3/4"	M10 (FM)	27	65	0.05	100	**113414**
33.7	1"	M10 (FM)	34	65	0.06	100	**102126**
42.4	1 1/4"	M10 (FM)	43	65	0.06	50	**102135**
48.3	1 1/2"	M10 (FM)	49	70	0.06	50	**102144**
60.3	2"	M10 (FM)	61	79	0.07	50	**102153**
76.1	2 1/2"	M10	77	98	0.14	25	**102320**
88.9	3"	M10	90	113	0.16	25	**102339**
108		M10	110	142	0.19	25	**102348**
114.3	4"	M10	115	142	0.19	25	**102357**
133		M12	135	155	0.22	25	**102366**
139.7	5"	M12	142	155	0.22	25	**102375**
159		M12	161	185	0.25	25	**102384**
168.3	6"	M12	170	185	0.26	25	**102393**
219.1	8"	M16	221	239	0.56	10	**102409**





Pipe Loop RSL Praktica S

Group: 1118

Application
For pipeline installations of fixed fire extinguishing systems, mainly used for Sprinkler systems.

Scope of delivery
Cup nut included in loose form.

Installation
Advice for VdS-installation: when assembling size DN 10", the cup nut M16 is replaced by two washers and two hexagon nuts M20!

Technical Data
Material: Steel, galvanised as per DIN EN 10346

Approvals
FM < 10" and VdS (No. G4780120) approved

Type	NB	Connection	D [mm]	H_2 [mm]	H_1 [mm]	W [kg]	Quantity [pack]	Part number
26.9	3/4"	M8 (VdS)	27	55	66	0.07	100	**141109**
33.7	1"	M8 (VdS)	34	59	70	0.08	100	**141118**
42.4	1 1/4"	M8 (VdS)	43	63	78	0.08	50	**141127**
48.3	1 1/2"	M8 (VdS)	49	66	81	0.09	50	**141136**
60.3	2"	M8 (VdS)	61	72	87	0.10	50	**141145**
33.7	1"	M10 (FM)	34	59	70	0.07	100	**140861**
42.4	1 1/4"	M10 (FM)	43	63	78	0.08	50	**140870**
48.3	1 1/2"	M10 (FM)	49	66	81	0.08	50	**140889**
60.3	2"	M10 (FM)	61	72	87	0.08	50	**140898**
76.1	2 1/2"	M10	77	93	108	0.20	25	**140904**
88.9	3"	M10	90	100	115	0.22	25	**140913**
114	4"	M10	115	121	146	0.27	25	**140834**
139	5"	M12	142	150	162	0.52	25	**140843**
168	6"	M12	170	175	187	0.60	25	**140852**
219	8"	M16	221	225	240	0.78	10	**140968**
274	10"	M16	276	285	300	1.74	10	**140977**

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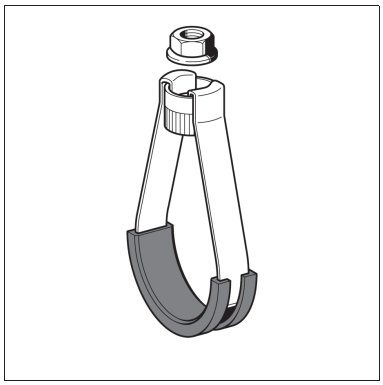
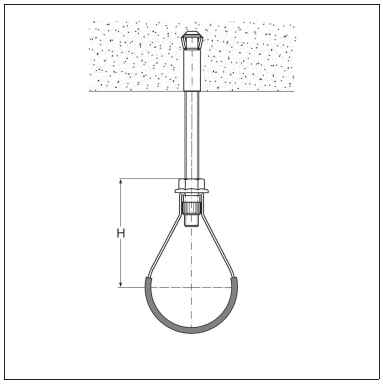




Pipe Loop RSL N Silicone

Group: 1115

Application

For pipeline installations of fixed fire extinguishing systems, mainly used for Sprinkler systems for soundproof installations also according to DIN 4109.

Scope of delivery

Flange nut and Cup nut included in loose form.

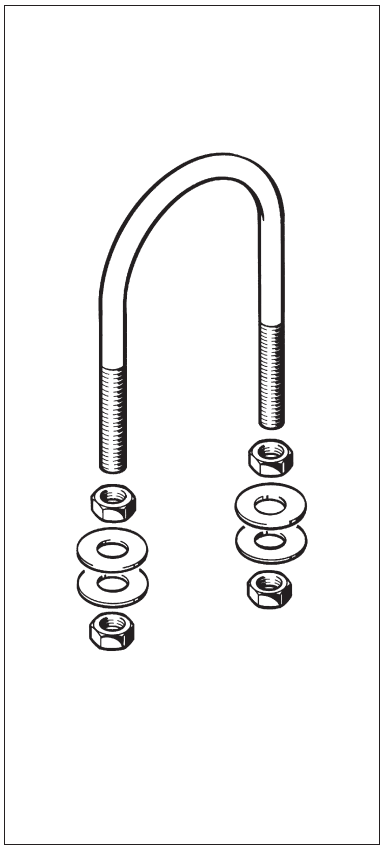
Technical Data

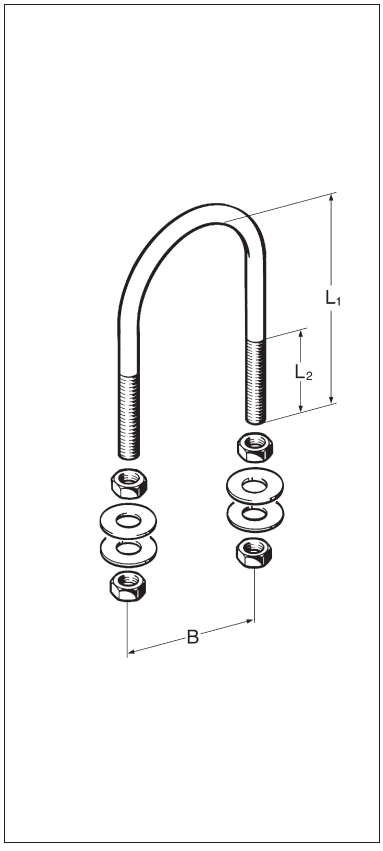
Material:	Steel, galvanised as per DIN EN 10346
Sound absorption lining:	Silicone, red (see chapter "Sound Absorption Products")

Approvals

VdS (No. G4850035) approved.

Type	NB	Connection	H [mm]	W [kg]	Quantity [pack]	Part number
26.9	3/4"	M8	65	0.06	100	**113307**
33.7	1"	M8	65	0.07	100	**113308**
42.4	1 1/4"	M8	70	0.08	50	**113309**
48.3	1 1/2"	M8	79	0.09	50	**113310**
60.3	2"	M10	98	0.17	25	**113311**
76.1	2 1/2"	M10	113	0.23	25	**113312**
88.9	3"	M10	142	0.25	25	**113313**
114.3	4"	M12	153	0.28	25	**113314**
139.7	5"	M12	184	0.31	25	**113315**
168.3	6"	M12	184	0.31	25	**113316**
219.1	8"	M16	236	0.65	10	**113317**





U Bolt RUB

Group: 1211

Application
For pipeline systems in industrial and residential buildings and sprinkler installations meeting the VdS and FM standards.
For horizontal and vertical pipelines, the U-Bolts are applied as Fixed Points and as Guiding Supports.

Scope of delivery
Similar to the DIN 3570 standard.
Four hexagon nuts and four washers included in loose form.

Installation
When used as Guided Support, nuts have to be arranged and fixed on both sides, at the top and at the bottom of the profile. Thereby the pipe should remain flexible. When used as Fixed Point the admissible loads of the connecting elements shouldn't exceed the bending loads of the U-bolt.

Technical Data
Material: Steel, electro-galvanised

Approvals
The U Bolt NB 8" with M12 thread obtained a separate VdS Approval (No. G4810047).

Type	NB	B [mm]	L_1 [mm]	L_2 [mm]	Thread	W [kg]	Quantity [pack]	Part number
21.3	1/2"	30	45	30	M8	0.08	50	**102162**
26.9	3/4"	35	60	40	M8	0.09	50	**102773**
33.7	1"	42	67	40	M8	0.09	50	**102782**
42.4	1 1/4"	51	76	40	M8	0.10	50	**102791**
48.3	1 1/2"	57	82	40	M8	0.11	50	**102807**
60.3	2"	71	95	45	M10	0.21	50	**102816**
76.1	2 1/2"	87	111	45	M10	0.23	50	**102825**
88.9	3"	100	123	45	M10	0.24	50	**102834**
114.3	4"	126	157	55	M12	0.39	25	**102171**
108		121	151	55	M12	0.38	50	**102843**
139.7	5"	152	180	55	M12	0.43	25	**102180**
133		146	172	55	M12	0.42	25	**102852**
159		172	197	55	M12	0.46	25	**102861**
168.3	6"	180	207	55	M12	0.46	10	**102199**
219.1	8"	233	267	55	M12	0.56	10	**102870**

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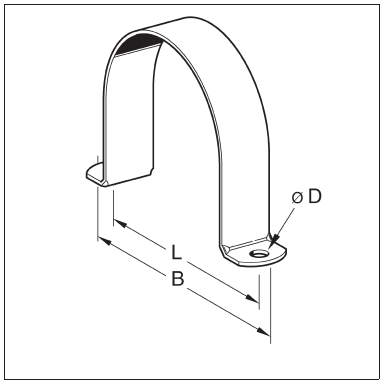
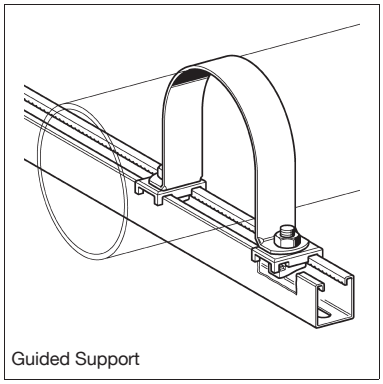
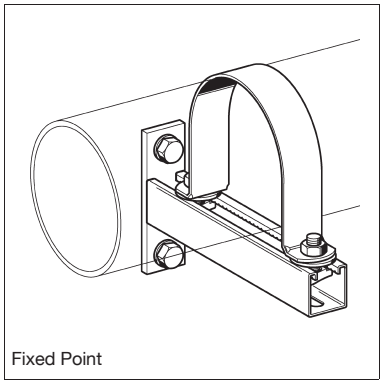



Guided Support


Fixed Point

U Clamp RUC

Group: 1203

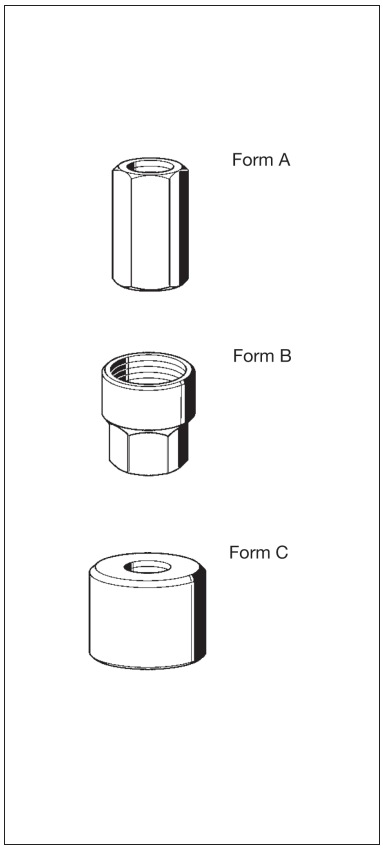
Application

For mounting pipes directly on a support, especially suitable as a replacement for U Bolts in connection with channels or cantilever brackets. When using T Bolts, their washer can be used in between the channel and the U Clamp. Dimensions and cross-sections are in keeping with the VdS standard.

Technical Data

Material: Steel, pre-galvanised as per DIN EN 10346

Type	For pipe	Material [mm]	B [mm]	L [mm]	Ø D [mm]	W [kg]	Quantity [pack]	Part number
18	3/8"	30 x 2.5	69	49	9	0.09	50	**159012**
22	1/2"	30 x 2.5	73	53	9	0.05	50	**159021**
28	3/4"	30 x 2.5	79	59	9	0.06	50	**159030**
34	1"	30 x 2.5	85	65	9	0.07	25	**159049**
43	1 1/4"	30 x 2.5	94	74	9	0.08	25	**159058**
49	1 1/2"	30 x 2.5	100	80	9	0.11	25	**159067**
61	2"	30 x 2.5	112	92	9	0.13	25	**159076**
77	2 1/2"	30 x 2.5	128	108	9	0.16	25	**159085**
90	3"	30 x 2.5	141	121	9	0.16	25	**159094**
115	4"	40 x 3.0	183	155	13	0.31	25	**159100**
141	5"	40 x 3.0	209	181	13	0.37	10	**159119**
169	6"	40 x 3.0	236	207	13	0.44	1	**159128**
221	8"	40 x 3.0	289	261	13	0.55	1	**159137**
275	10"	50 x 5.0	375	325	17	1.43	1	**159146**
326	12"	50 x 5.0	426	373	17	1.69	1	**159155**



Adapter AD f/f

Group: 1333

Application

Additional connection options for all Sikla Pipe Clamps equipped with 3G triple thread nut, fixed points and threaded tubes.

Technical Data

Material:
Form A: Steel, electro-galvanised
Form B: Malleable cast iron, electro-galvanised

Type	Form	Length [mm]	A/F [mm]	W [kg]	Quantity [pack]	Part number
M16/M10	A	35	19	0.05	50	**106740**
M16/M12	A	35	19	0.04	50	**124665**
M16/M16	A	30	19	0.03	50	**106290**
3/8"/M16	A	40	19	0.03	25	**146335**
1/2"/M10	A	35	24	0.07	10	**146371**
1/2"/M12	A	35	24	0.06	25	**156639**
1/2"/M16	A	40	24	0.07	25	**124656**
1/2"/3/8"	A	40	24	0.06	25	**146344**
1/2"/1/2"	A	35	24	0.11	10	**146380**
3/4"/M10	A	35	32	0.15	10	**105651**
3/4"/M12	A	35	32	0.08	10	**105749**
3/4"/M16	A	35	32	0.14	10	**105660**
3/4"/3/8"	A	35	32	0.14	25	**146353**
3/4"/1/2"	A	35	32	0.08	10	**146399**
1"/M10	B	40	22	0.13	10	**105679**
1"/M12	B	40	22	0.13	10	**105758**
1"/M16	B	40	22	0.12	10	**105688**
1"/3/8"	B	40	22	0.12	25	**146362**
1"/1/2"	B	40	27	0.12	10	**146405**
M16/1/2"	C	25	-	0.06	25	**157922**
M16/3/4"	C	28	-	0.09	25	**157931**
3/8"/M16	C	100	-	0.11	20	**111715**
3/8"/1/2"	C	100	-	0.19	20	**113349**

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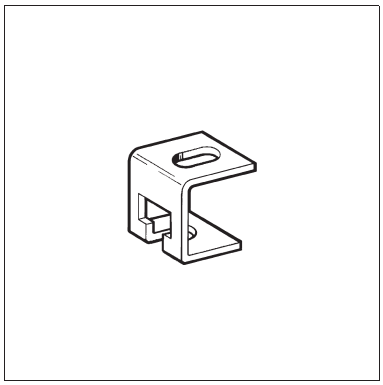


Height Adjuster HRS 0

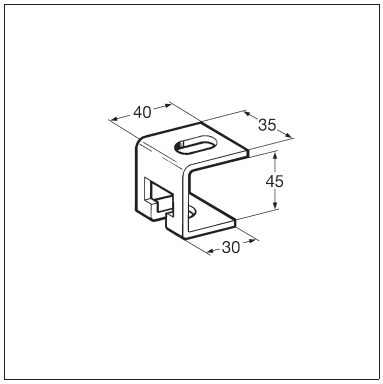
Group: 1339

Application

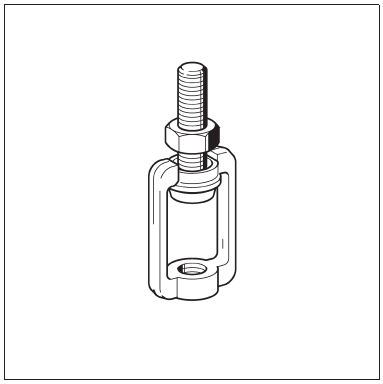
Height adjustment unit for suspended pipelines and components, providing for accurate pipe laying and compensation of constructional building tolerances. Facilitates mounting and improves mounting efficiency on site.

Technical Data

Material:	Steel, electro-galvanised
Connection to building structure:	M12
Connection to system:	M10 and M12
Max. perm. working load:	1.5 kN
Adjustment range:	25 mm



Type	W [kg]	Quantity [pack]	Part number
HRS 0	0.09	50	**125958**



Height Adjuster HRS P

Group: 1339

Application

Suitable for all M&E services. May be fixed directly to the ceiling (anchor) or in a suitable channel. Especially advantageous due to the suspension unit in the upper section of the height adjuster, since it enables the pipes to move in all directions.

Scope of delivery

Pre-assembled component, no loose parts.

Installation

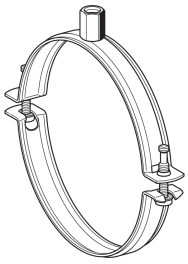
The upper part of the base component can be used as a tool for screwing in the suspending bolt. Then the bolt only has to be tightened with an open-ended spanner. After mounting, the base component rests freely mobile and rotatable on the rounded bolt head. Fixing a locking nut against the cup nut secures the height adjusted.

Technical Data

Material:	Base component cast iron, all components galvanised
Max. perm. working load:	4.0 kN
Max. swinging angle:	7°

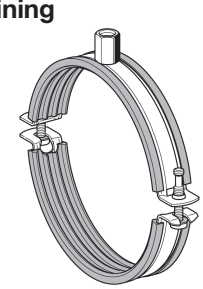
Type	Connection to system	Connection to building structure	Adjustment height	W [kg]	Quantity [pack]	Part number
P M8	M8	M8 x 22	25 mm	0.06	25	**151519**
P M10	M10	M10 x 22	25 mm	0.08	25	**151528**

Ducting Clamp PLU 2G-N



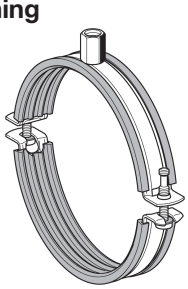
Page **5**-3

Ducting Clamp PLU 2G-N with lining



Page **5**-4

Ducting Clamp PLU TOP 2G with lining



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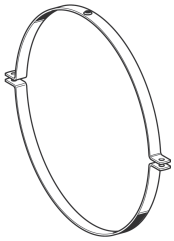
Ducting Clamp PLU > DN 560



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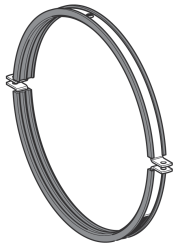
Ducting Clamp PLU > DN 560 with Lining



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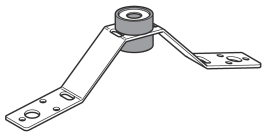
Ducting Strap LUB



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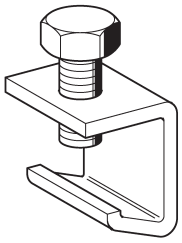
Ducting Bracket LCO



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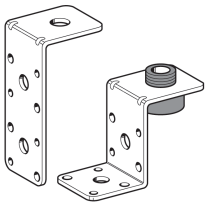
Ducting Angle LUW



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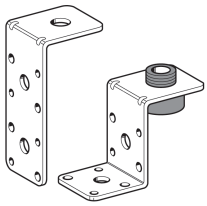
Ducting Angle LUW A



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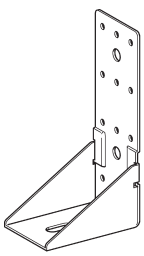
Ducting Angle LUW Stabil



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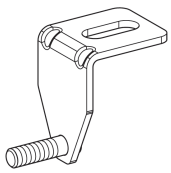
Ducting Angle LUW F



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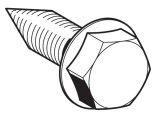
Self Forming Screw SCR L



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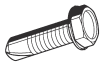
Hexagon Drilling Screw SKB



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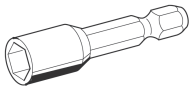
Magnetic Holder MN



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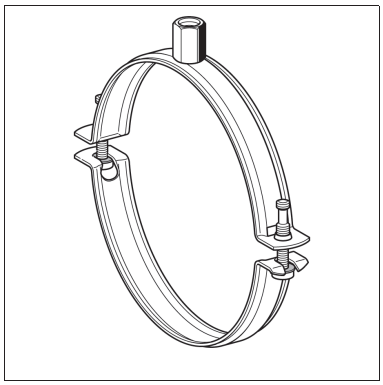
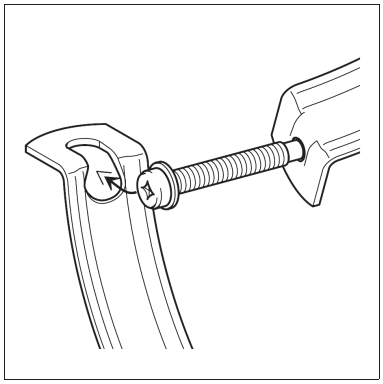
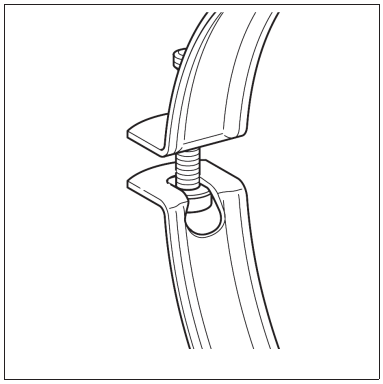






Ducting Clamp PLU 2G-N

Group: 1622

Application
Two-piece pipe clamp for simple installation of spiral-seam ducts.

Scope of delivery
Clamping bolts are pre-mounted and retained. Pivot screw for safe and simple assembly with quick-set clip, suitable for "single-hand" mounting. Easier handling and better storage possibilities due to optimized packaging.

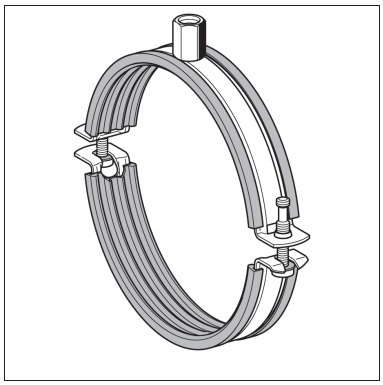
Installation
Tighten upper part of the pipe clamp without the interfering lower part. Hook the lower part, provided with a keyhole, into the fixed clamping bolt (see picture). After mounting of the pipe and locating into the pivot screw, the clamping bolt is fixed behind the bending; then tighten clamping bolt with max. 2 Nm.

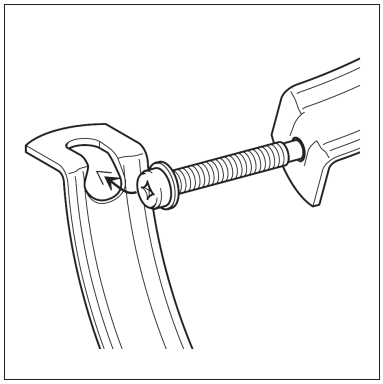
Technical Data

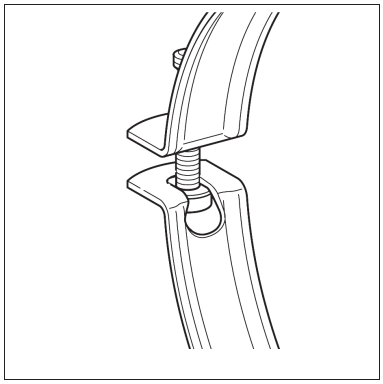
Type	Material [mm]	Perm. load capacity [kN]	Thread connection
71 - 200	20 x 1.5	0.8	M8/M10
224 - 500	25 x 1.5	1.0	M8/M10

Material: Steel, galvanised

Type	W [kg]	Quantity [pack]	Part number
71	0.09	50	**199626**
80	0.10	50	**199633**
90	0.10	50	**199640**
100	0.11	100	**199657**
112	0.12	100	**199664**
125	0.13	100	**199671**
140	0.14	80	**199688**
150	0.15	80	**199695**
160	0.16	80	**199701**
180	0.17	50	**199718**
200	0.18	50	**199725**
224	0.34	50	**199732**
250	0.37	40	**199749**
280	0.38	40	**199756**
300	0.41	40	**199763**
315	0.45	40	**199770**
355	0.47	40	**199787**
400	0.56	30	**199794**
450	0.58	20	**199800**
500	0.67	20	**199817**







Ducting Clamp PLU 2G-N with lining

Group: 1622

Application

Two-piece pipe clamp for simple installation of spiral-seam ducts.

Suitable for soundproof installation according to DIN 4109.

Scope of delivery

Clamping bolts are pre-mounted and retained. Pivot screw for safe and simple assembly with quick-set clip, suitable for "single-hand" mounting. Easier handling and better storage possibilities due to optimized packaging.

Installation

Tighten upper part of the pipe clamp without the interfering lower part.
Hook lower part, provided with a keyhole, into the fixed clamping bolt (see picture).
After inserting the pipe and locating into the pivot screw, the clamping bolt head is located behind the angled profiles; then tighten clamping bolt with max. 2 Nm.

Technical Data

Type	Material [mm]	Perm. load capacity [kN]	Thread connection
71 - 200	20 x 1.5	0.8	M8/M10
224 - 500	25 x 1.5	1.0	M8/M10

Material: Steel, galvanised
Insulation insert: SBR/EPDM black (rubber Profile - see chapter Sound Absorption Products)
Temperature range: -50°C up to +110°C

Type	W [kg]	Quantity [pack]	Part number
71	0.11	50	**199824**
80	0.12	50	**199831**
90	0.13	50	**199848**
100	0.15	100	**199855**
112	0.16	100	**199862**
125	0.17	100	**199879**
140	0.19	70	**199886**
150	0.20	70	**199893**
160	0.21	70	**199909**
180	0.23	50	**199916**
200	0.25	50	**199923**
224	0.46	50	**199930**
250	0.51	40	**199947**
280	0.56	40	**199954**
300	0.59	40	**199961**
315	0.62	40	**199978**
355	0.70	40	**199985**
400	0.86	30	**199992**
450	0.87	20	**199993**
500	0.96	20	**199994**

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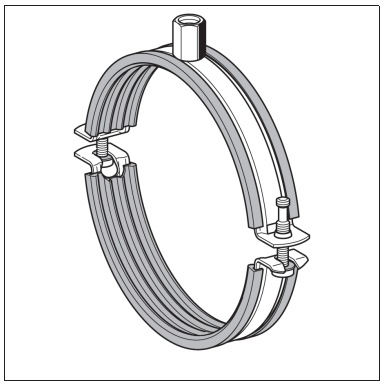


Ducting Clamp PLU TOP 2G with lining

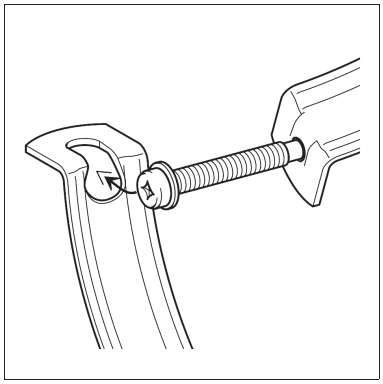
Group: 1623

Application

Two-piece pipe clamp for simple installation of spiral-seam ducts. Suitable for soundproof installation according to DIN 4109.

Scope of delivery

With glued-in rubber profile. Clamping bolts are pre-mounted and retained. Pivot screw for safe and simple assembly with quick-set clip, suitable for "single-hand" mounting. Easier handling and better storage possibilities due to optimized packaging



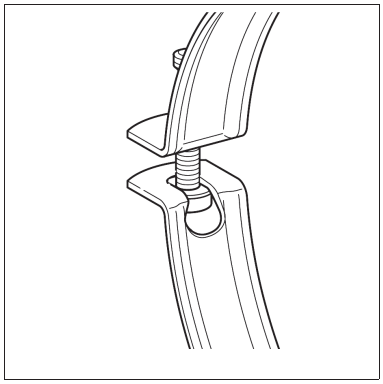
Installation

Tighten upper part of the pipe clamp without the interfering lower part. Hook lower part, provided with a keyhole, into the fixed clamping bolt (see picture). After inserting the pipe and locating into the pivot screw, the clamping bolt head is located behind the angled profiles; then tighten clamping bolt with max. 2 Nm.

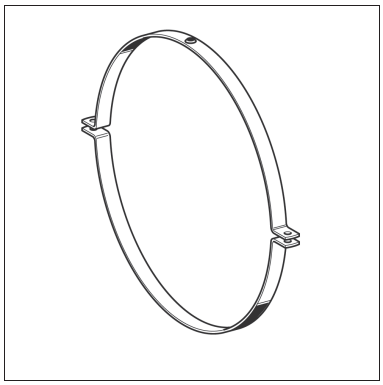
Technical Data

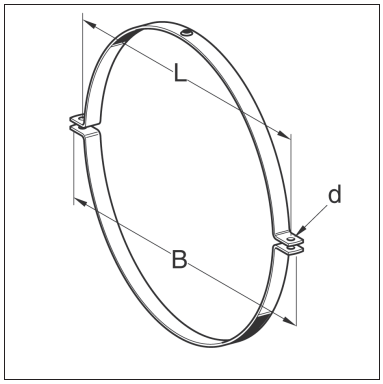
Type	Material [mm]	adm. load [kN]	Thread connection
71 - 200	20 x 1.5	0.8	M8/M10
224 - 500	25 x 1.5	1.0	M8/M10

Material: Steel, galvanised
Insulation insert: SBR/EPDM black (rubber profile - see chapter "Sound Absorption Products")
Temperature range: -50°C up to +110°C



Type	W [kg]	Quantity [pack]	Part number
71	0.11	50	**111783**
80	0.12	50	**111785**
90	0.13	50	**111786**
100	0.15	100	**111787**
112	0.16	100	**111788**
125	0.17	100	**111789**
140	0.19	70	**111790**
150	0.20	70	**111791**
160	0.21	70	**111792**
180	0.23	50	**111794**
200	0.25	50	**111795**
224	0.46	50	**111796**
250	0.51	40	**111797**
280	0.56	40	**111798**
300	0.59	40	**111799**
315	0.62	40	**111800**
355	0.70	40	**111801**
400	0.86	30	**111802**
450	0.87	20	**111803**
500	0.96	20	**111804**





Ducting Clamp PLU > DN 560

Group: 1602

Application
Ducting Clamp designed for installing spiral-seam ducts according to DIN 24145 for industrial ventilation systems.

Scope of delivery
Without bolts and nuts. Without connection nut.

Installation
Basically, two-sided fixing to threaded rods is recommended.

NB 560 - NB 900 : M12
From NB 1000 on: M16

Technical Data
Material: Steel, pre-galvanised according to DIN EN 10346

Type	perm. Working load
560 - 900	1,5 kN
1000 - 1250	2,5 kN

Type / NB	Material [mm]	B [mm]	L [mm]	d [mm]	W [kg]	Quantity [pack]	Part number
560	30 x 2.5	630	604	12.5	1.10	1	**121848**
600	30 x 2.5	672	646	12.5	1.18	1	**149116**
630	30 x 2.5	702	676	12.5	1.23	1	**121857**
710	30 x 2.5	782	756	12.5	1.38	1	**121866**
800	30 x 2.5	872	846	12.5	1.55	1	**121875**
900	30 x 2.5	972	946	12.5	1.73	1	**121884**
1000	40 x 3.0	1076	1050	12.5	3.08	1	**121893**
1120	40 x 3.0	1196	1170	12.5	3.43	1	**121909**
1250	40 x 3.0	1325	1299	12.5	3.82	1	**121918**

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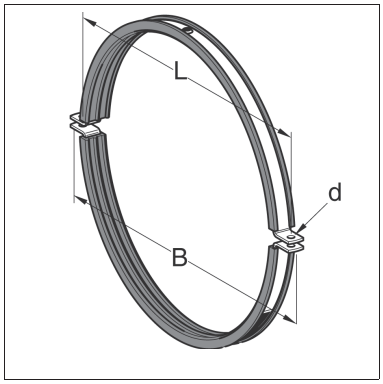


Ducting Clamp PLU > DN 560 with Lining

Group: 1602

Application

Designed for installing spiral-seam ducts for industrial ventilation systems (according to DIN 24145).
For soundproof installation of pipes (according to DIN 4109).

Scope of delivery

Without bolts and nuts. Without connection nut.

Installation

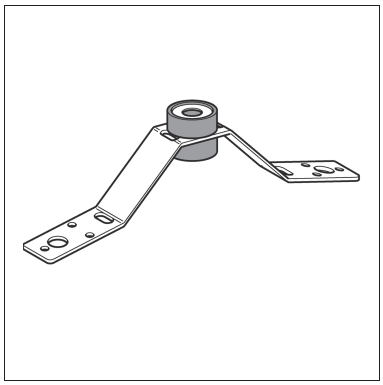
NB 560 - NB 900: Two-sided fixing to M12 threaded rods
From NB 1000 on: Two-sided fixing to M16 threaded rods

Technical Data

Material: Steel, pre-galvanised as per DIN EN 10346
Sound absorption lining: SBR/EPDM, black (see chapter "Sound Absorption Products")
Temperature range: -50°C up to +110°C

Type	perm. Working load
560 - 900	1,5 kN
1000 - 1250	2,5 kN

Type / NB	Material [mm]	B [mm]	L [mm]	d [mm]	W [kg]	Quantity [pack]	Part number
560	30 x 2.5	630	604	12.5	1.30	1	**190181**
600	30 x 2.5	672	646	12.5	1.40	1	**190199**
630	30 x 2.5	702	676	12.5	1.46	1	**190208**
710	30 x 2.5	782	756	12.5	1.64	1	**190217**
800	30 x 2.5	872	846	12.5	1.84	1	**190226**
900	30 x 2.5	972	946	12.5	2.06	1	**190235**
1000	40 x 3.0	1076	1050	12.5	3.51	1	**190244**
1120	40 x 3.0	1196	1170	12.5	3.92	1	**190253**
1250	40 x 3.0	1325	1299	12.5	4.36	1	**190262**



Ducting Strap LUB

Group: 1603

Application

For quick and safe soundproof mounting of ducts either close to a ceiling, or for suspended installation when using a threaded rod. The bending points are punched, ensuring easy and exact adjustment to the pipe diameter.

Suitable if soundproof installation according to DIN 4109 is demanded.

Scope of delivery

Sound absorption component with carrying bracket and distance bush pre-assembled.

Installation

The use of 2 x 3 blind steel rivets of 4 mm is recommended.

Technical Data

Max. Working Load:	0.3 kN
Material:	Steel strap (25 x 2.5 mm) cold-worked, pre-galvanised according to DIN EN 10346

Type	Connection bush	Thread connection	W [kg]	Quantity [pack]	Part number
Ducting Strap	Ø 10.5	M8 oder M10	0.10	100	**151582**

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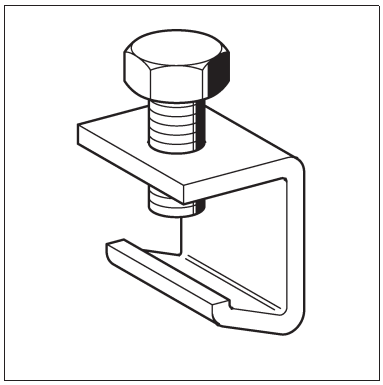
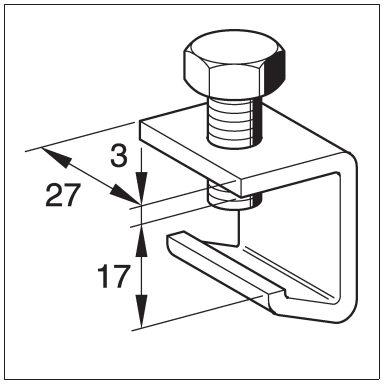
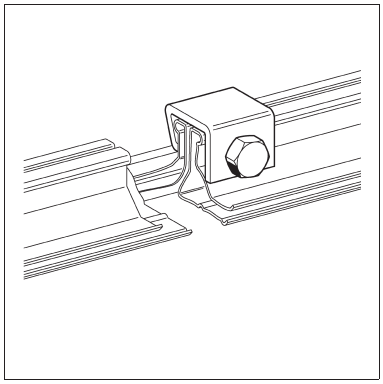






Ducting Bracket LCO

Group: 1604

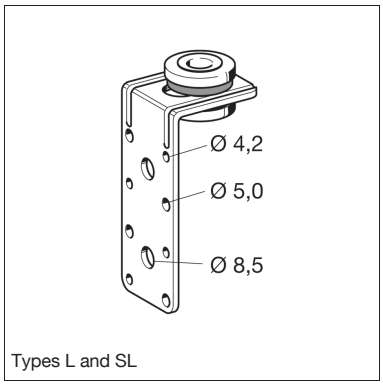
Application
For connecting formed duct parts. When tightening the Bracket, the flanges of the duct parts are pressed against each other.

Scope of delivery
Pre-assembled with M8 x 20 hexagon bolt.

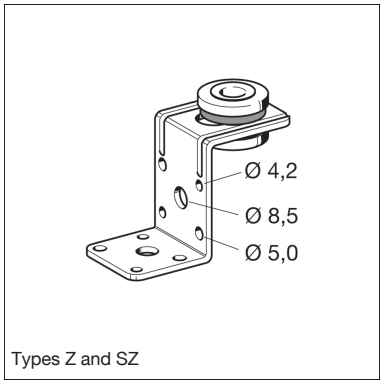
Installation
The distance between two Ducting Brackets should not exceed 200 mm.
Tighten the bolt with a torque of approx. 7 Nm.

Technical Data
Material: Steel (27 x 3 mm), electro-galvanised

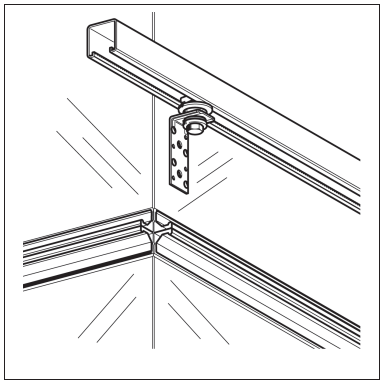
Type	W [kg]	Quantity [pack]	Part number
Ducting Bracket 20	0.05	200	**170222**



Types L and SL



Types Z and SZ



Ducting Angle LUW

Group: 1601

Application

Mounting element for rectangular ducts installed directly under the ceiling, or for suspended installation when using a threaded rod.
Types SL and SZ allow for soundproof installation, also according to DIN 4109.

The adjustability in the oblong hole qualifies the adjustment of bore variations and building tolerances. For assembly on ducts with channels and T-head Bolts it guarantees the adequate distance in order to avoid structure borne sound when using versions SL and SZ.

Scope of delivery

Types SL and SZ are equipped with a pre-assembled sound absorption head including a (dia. 10.5 mm) metal bush.

Installation

Fixing to duct with rivets (4 mm), sheet metal screws (4 mm) or M8 bolts.
For vertical adjustment of the angle (pressure load), the holes nearest to the bending 90° are to be used. For fixation with a screw M8, an additional washer 8/40 is to be used.

Technical Data

Working Load:	0.8 kN
Material (metal component):	Steel, pre-galvanised
Types SL and SZ	
Inserted insulation:	Up to 8,7 dB(A)
Sound absorption unit:	EPDM, black
Hardness:	45+ / -5° Shore
Temperature range:	-50°C up to +110°C

Type	Connection to building structure	Adjustable range [mm]	Material [mm]	Length of legs [mm]	W [kg]	Quantity [pack]	Part number
SL	M8/M10	13	35 x 2.5	41/85	0.09	100	**189893**
SZ	M8/M10	13	35 x 2.5	41/53/34	0.09	100	**189902**

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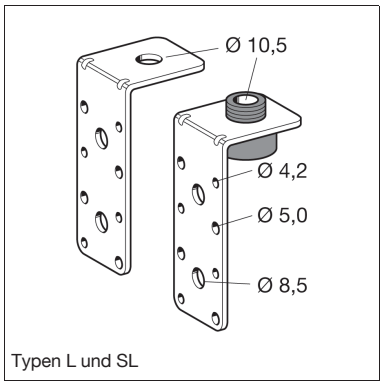
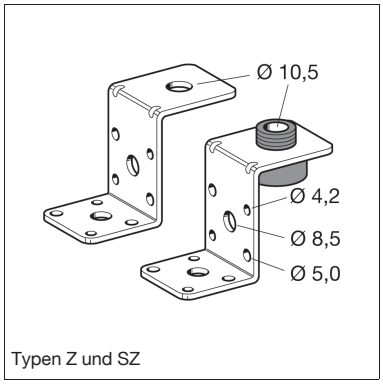
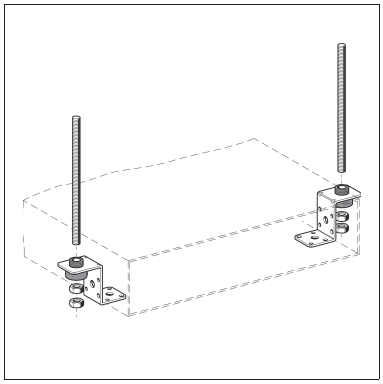


Typen L und SL



Typen Z und SZ



Ducting Angle LUW A

Group: 1621

Application

Mounting Angle for rectangular ducts installed directly under the ceiling, or for suspended installation when using a threaded rod.
Types A-SL and A-SZ allow for soundproof installation also according to DIN 4109.

Scope of delivery

Types A-SL and A-SZ are equipped with pre-assembled sound absorption head.

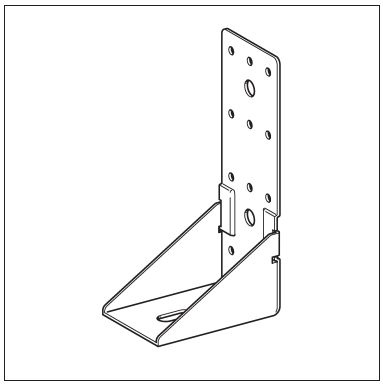
Installation

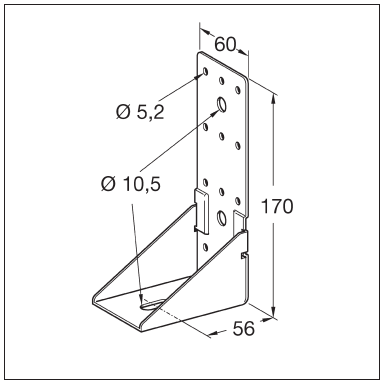
Fixing to the duct with rivets (Ø 4 - 5 mm), sheet metal screws (Ø 4 - 5 mm) or M8 bolts.

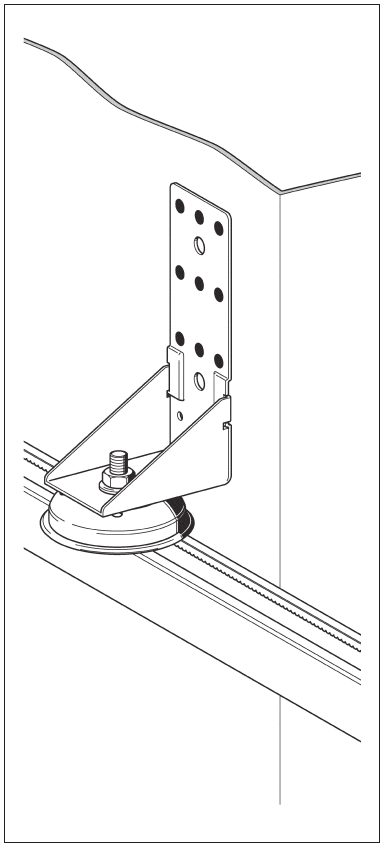
Technical Data

Working load:	0.5 kN for A-L and A-Z 0.3 kN for A-SL and A-SZ
Material (metal component):	Steel, pre-galvanised
Types A-SL and A-SZ:	Up to 8.7 dB(A)
Inserted insulation:	
Sound absorption unit:	EPDM, black
Hardness:	50+ / -5° Shore
Temperature range:	-50°C up to +100°C

Type	Connection to building structure	Material [mm]	Length of legs [mm]	W [kg]	Quantity [pack]	Part number
A-L	M8/M10	35 x 2	35/85	0.05	100	**110496**
A-Z	M8/M10	35 x 2	35/46/38	0.05	100	**110498**
A-SL	M8/M10	35 x 2	35/85	0.06	100	**110497**
A-SZ	M8/M10	35 x 2	35/46/38	0.06	100	**110499**







Ducting Angle LUW Stabil

Group: 1601

Application

Mounting element for rectangular, particularly for vertically running ducts. In combination with Sound Absorber SDE 1 suitable for soundproof fixing of ducts according to DIN 4109.

Installation

Fixation to duct with rivets (5 mm) or M10 bolts.

Technical Data

Max. Working Load:	2 kN, when bolted at fixing points A and B
Material:	Steel (60 x 2 mm), pre-galvanised according to DIN EN 10346

Type	W [kg]	Quantity [pack]	Part number
170/90	0.30	10	**158534**

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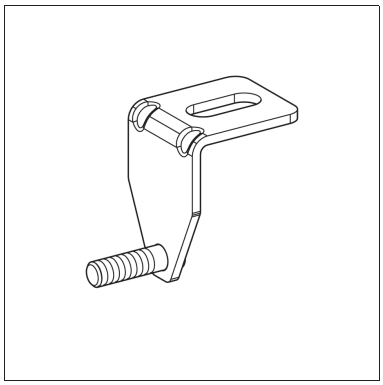
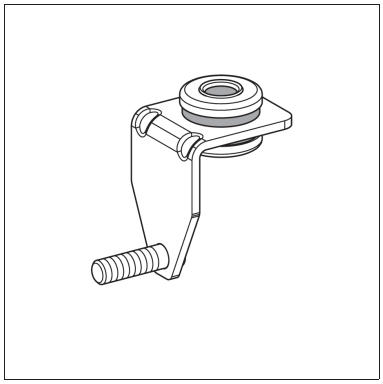
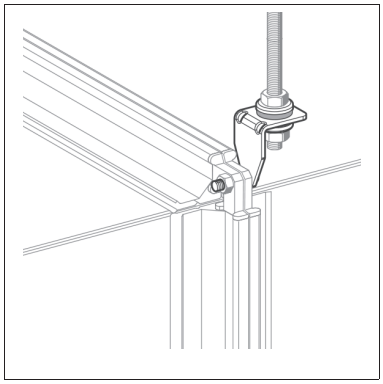






Ducting Angle LUW F

Group: 1605

Application

Ducting Angle for a direct installation to the flange of rectangular ventilation ducts. Due to this external connection it's not necessary to penetrate the duct, therefore flow losses do not occur. In addition there are no leakages and flow noises. No disturbing screw tips interfere with cleaning operations.
The Ductings Angles LUW F exceed the demands of VDI Standard 6022 (Hygiene requriements for ductings)
Type LUW SF is suitable for soundproof duct installations according to DIN 4109.
The slot allows adjustment facilities to compensate drill hole differences and construction tolerances.

Scope of delivery

With a pre-assembled sound absorption head

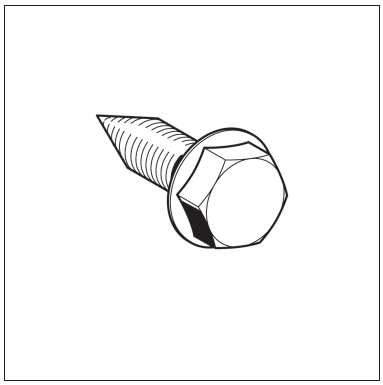
Installation

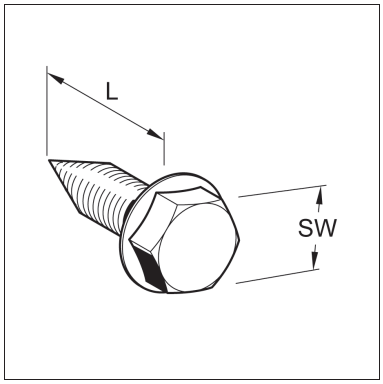
The ventilation duct could be connected directly to the pre-assembled grub screw.

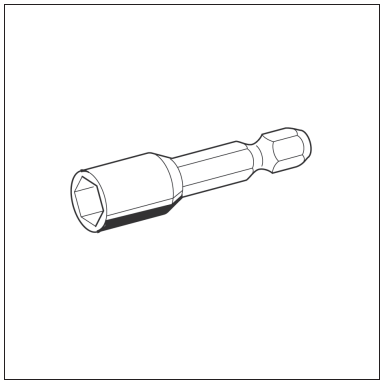
Technical Data

Working load:	0,8 kN
Material (Metal component):	Steel, pre-galvanised
Types SF:	
Inserted insulation:	Up to 8,7 dB (A)
Sound absorption unit:	EPDM, black
Hardness:	45+ / -5° Shore
Temperature range:	-50 up to +110°C

Type	Thread connection	Connection to building structure	Material [mm]	W [kg]	Quantity [pack]	Part number
F M8	M8	M8/M10	35 x 3.0	0.08	100	**113331**
SF M8	M8	M8/M10	35 x 3.0	0.08	100	**113329**
SF M10	M10	M8/M10	35 x 3.0	0.08	100	**113330**







Self Forming Screw SCR L

Group: 1370

Application

Non-cutting quick fastening for ventilation installations. The special cone of the screw turns very quickly into the metal sheet, creates a collar and under the same process forms the tight, metric screw thread.
For fixation of ducting angles / ducting brackets to ventilation ducts and pipes up to 1.0 mm sheet thickness. Also suitable for requirements according to airtightness class D - DIN EN 12237.

Scope of delivery

1 magnetic nut per packing unit

Installation

Screw with a high speed (ca. 2000 RPM) with high pressure at first. As soon as the screw displaces the material, reduce pressure and speed. A screwdriver with adjustable torque control is recommended.

Technical Data

4.0 x L mm
Recommended through hole of connecting component: 4.2 - 5.0 mm
Material: Steel, electro-galvanised

Type	Length L [mm]	A/F [mm]	W [kg]	Quantity [pack]	Part number
SCR L-14	14	6	0.01	1000	**110577**
SCR L-18	18	6	0.01	1000	**110877**

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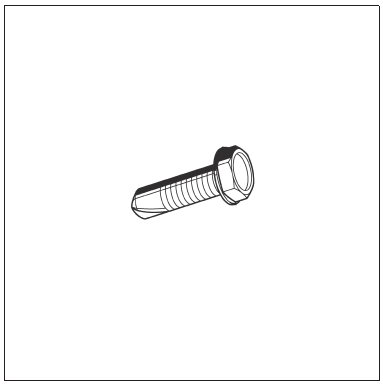


Hexagon Drilling Screw SKB

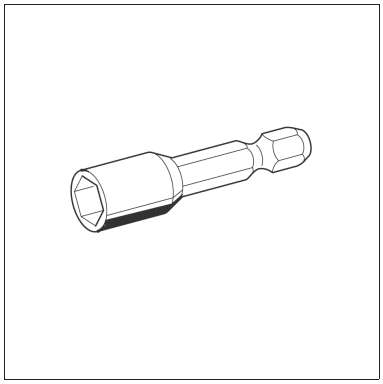
Group: 1370

Technical Data

Type	for metal sheet thickness
4.2 x 13	up to 3 mm max.
4.2 x 19	up to 3 mm max.
4.2 x 25	up to 3 mm max.

Material: Self-cutting according to DIN 7504, electro-galvanised

Type	Ø [mm]	Length [mm]	A/F	W [kg]	Quantity [pack]	Part number
4.2 x 13	4.2	13	7	0.01	1000	**413140**
4.2 x 19	4.2	19	7	0.01	1000	**413158**
4.2 x 25	4.2	25	7	0.02	1000	**413159**



Magnetic Holder MN

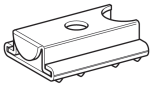
Group: 8101

Technical Data

Material: Tool steel, hardness HRC 60 - 63

Type	A/F	W [kg]	Quantity [pack]	Part number
SW 7	7.0	0.02	1	**412960**

Slide Set GS 1G



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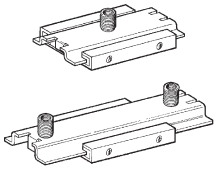
Slide Set GS 2G



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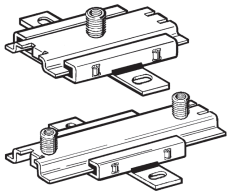
Slide Set GS 2G-PL



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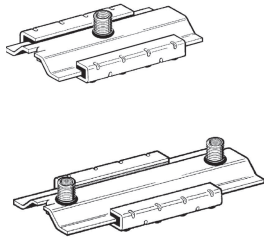
Slide Set GS H3G



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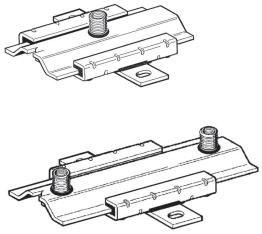
Slide Set GS H3G-PL



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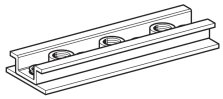
Slide Element GS 41



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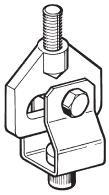
Slide Element GLE J



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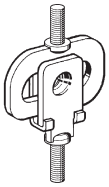
Slide Element GLE LC



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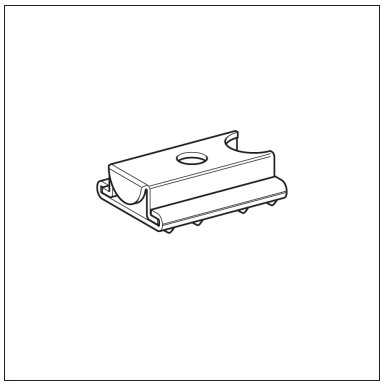
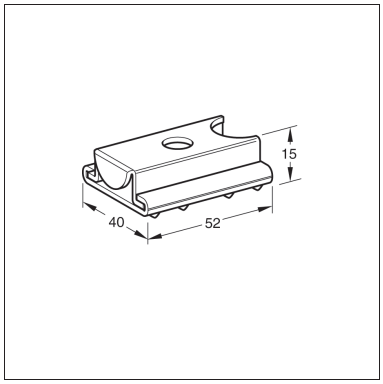
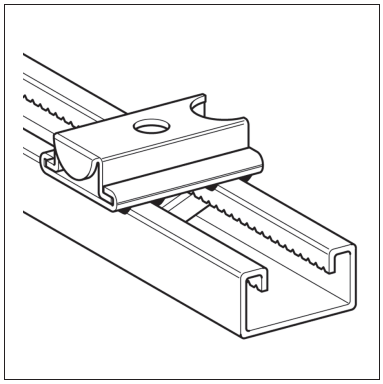






Slide Set GS 1G

Group: 1336

Application

Slide Set for mounting of small pipe lines with possible elongation of length. Space-saving and thus also to be used for smaller centre distances, especially in combination with pipe clamps Ratio S and LS. The stop at the skid avoids the pipe line from sliding and at the same time is a comfortable guide for rising pipes. Guiding corrugations guarantee the exact 90° arrangement and avoid the screwing up of the slide set.

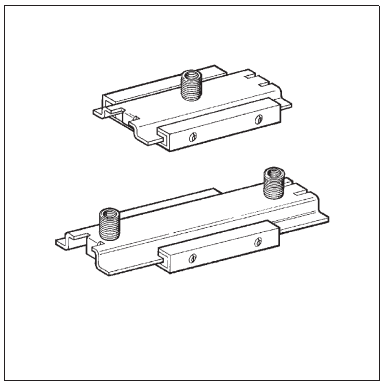
Installation

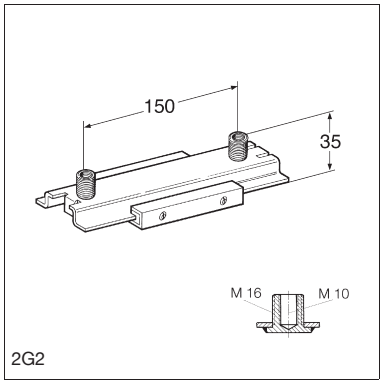
Connection to Channel System 41, ideally use flange screw M10 x 25. For drive plugs use flange screw M10 x 15. Fixation with hexagon bolt M8 or M10 is also possible.

Technical Data

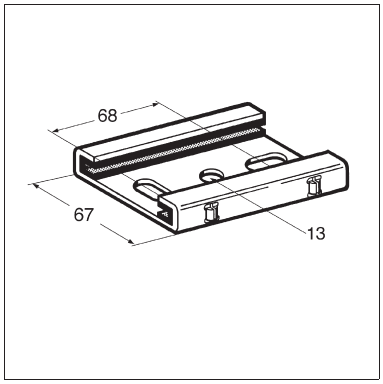
Permissible load for ceiling mounting:	0.6 kN
Permissible load for floor mounting:	1.2 kN
Lever arm L_{max} :	150 mm
Permissible bending moment for wall mounting:	20 Nm
Maximum sliding distance:	45 mm
Static friction coefficient μ_0 :	0.15
Sliding frition coefficient μ:	0.13
Material:	Steel, electro-galvanised

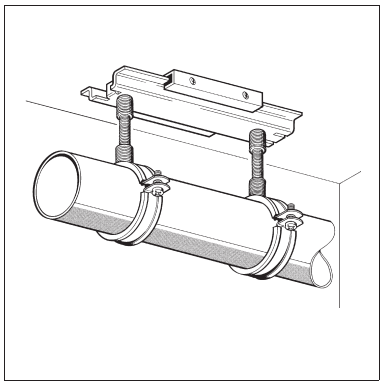
Type	Thread connection	W [kg]	Quantity [pack]	Part number
1G	M10	0.08	25	**198834**





2G2





Slide Set GS 2G

Group: 1336

Application

Slide Set for single and double mounting of mechanical equipment. To be used preferably in combination with Sikla Pipe Clamps Ratio S and Stabil D-3G. Various connection options with these pipe clamps ranging between M10 and R1". For adapters for these connection options (see Adapter AD f/f). Sound absorption by means of glass fibre reinforced PA slide rails. When using the version **ULTRAglide** the resultant shear force is halved. By this the realisation of optimized supporting structures is possible.

Technical Data

Permissible load for ceiling mounting:	0.6 kN
Permissible load for floor mounting:	1.2 kN
Lever arm L_{max} :	300 mm
Max. sliding distance Type 2G:	85 mm
Max. sliding distance Type 2G2:	140 mm
Temperature range (permanent exposure):	130°C
Version GS:	
Static friction coefficient μ_0 :	0.18
Sliding friction coefficient μ:	0.14
Version GS ULTRAglide:	
Static friction coefficient μ_0 :	0.07
Sliding friction coefficient μ:	0.07
Material:	
Metal components:	Steel, electro-galvanised
Slide bar:	Polyamide, glass fibre reinforced
Version ULTRAglide:	With additional Nano coating

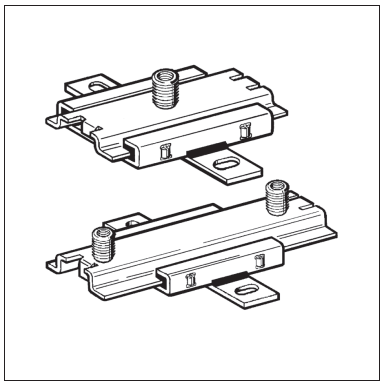
Adm. load FZ * under stress of fire

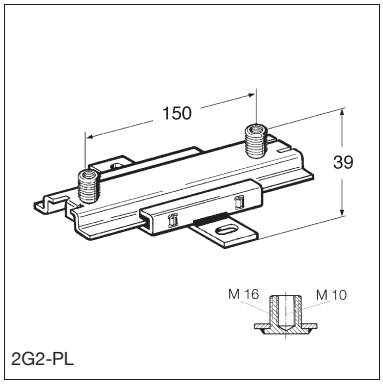
FWD 30 [N]	FWD 60 [N]	FWD 90 [N]	FWD 120 [N]
≤ 600	≤ 430	≤ 280	≤ 200

FZ = max. adm. tensile load

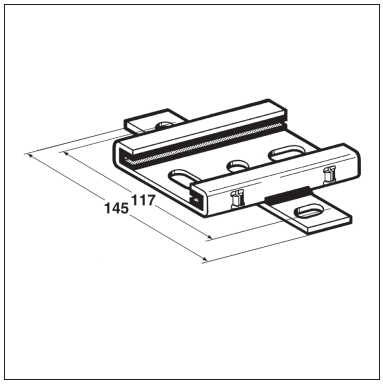
* The load capacity of connecting elements used is to be respected, this applies in particular under stress of fire.

Type	W [kg]	Quantity [pack]	Part number
2G	0.38	25	**126755**
2G2	0.49	25	**126764**
2G ULTRAglide	0.38	25	**110582**
2G2 ULTRAglide	0.49	25	**110584**





2G2-PL



Slide Set GS 2G-PL

Group: 1336

Application

Slide Set for single and double mounting of mechanical equipment, to be used on Sikla Channels, brick or concrete walls and on bearers.
To be used preferably in combination with Sikla Pipe Clamps Ratio S and Stabil D-3G.
Various connection options with these pipe clamps ranging between M10 and R1". For adapters for these connection options (see Adapter AD f/f).
Sound absorption by means glass fibre reinforced PA slide rails.
When using the version **ULTRAglide** the resultant shear force is halved. By this the realisation of optimized supporting structures is possible.

Technical Data

Permissible load for ceiling mounting:	0.6 kN
Permissible load for floor mounting:	1.2 kN
Lever arm L_{max} :	300 mm
Max. sliding distance Type 2G-PL:	85 mm
Max. sliding distance Type 2G2-PL:	140 mm
Temperature range (permanent exposure):	130°C
Version GS:	
Static friction coefficient μ_0 :	0.18
Sliding friction coefficient μ:	0.14
Version GS ULTRAglide:	
Static friction coefficient μ_0 :	0.07
Sliding friction coefficient μ:	0.07
Material:	
Metal components:	Steel, electro-galvanised
Slide bar:	Polyamide, glass fibre reinforced
Version ULTRAglide:	With additional Nano coating

Adm. load FZ * under stress of fire

FWD 30 [N]	FWD 60 [N]	FWD 90 [N]	FWD 120 [N]
≤ 600	≤ 430	≤ 280	≤ 200

FZ = max. adm. load

* The load capacity of the connecting elements used is to be respected, this applies in particular under stress of fire.

Type	W [kg]	Quantity [pack]	Part number
2G-PL	0.54	25	**127127**
2G2-PL	0.65	25	**127136**
2G-PL ULTRAglide	0.54	25	**110583**
2G2-PL ULTRAglide	0.65	25	**110585**

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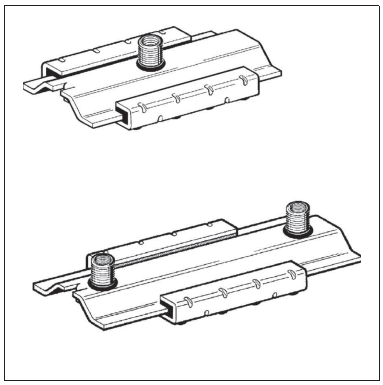
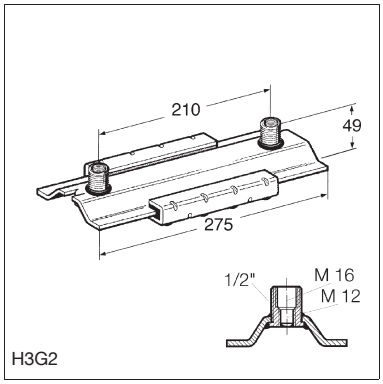
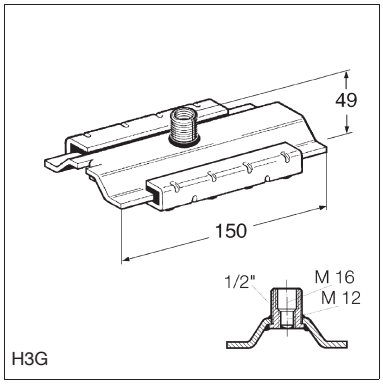
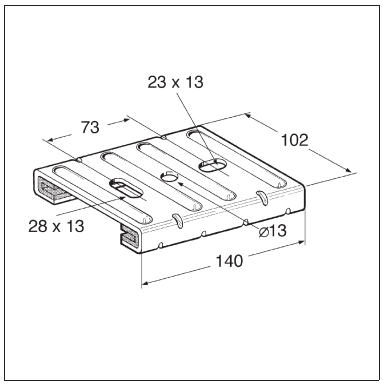




H3G2



H3G



Slide Set GS H3G

Group: 1336

Application

Heavy-duty Slide Set for plant construction. To be used preferably in combination with Sikla Pipe Clamp Stabil D-3G and Chilled Water Clamp SKS Top-2C.
Various connection options of the pipe clamps depending on the respective load: M12, M16 or with $^1/_2$" adapters using the external thread (see Adapter AD f/f). Sound absorption by means of glass fibre reinforced polyamide slide rails. Especially suitable for ceiling and floor mounting solutions and as a guide for rising pipes.
When using the version **ULTRAglide** the resultant shear force is halved. By this the realisation of optimized supporting structures is possible.
For wall mounting, we recommend the use of the Slide Set H3G on Sikla Support Bracket.

Installation

For pipes of NB 100 or larger having to be spaced at a distance from the Slide Set, or under conditions of reversed bending stress, the 3G triple thread nuts are to be secured by screwing on a $^1/_2$" Locking Nut.

Technical Data

Permissible load for ceiling mounting:	5.0 kN
Permissible load for floor mounting:	9.0 kN
Permissible bending moment for wall mounting* for H3G2:	350 Nm
Lever arm L_{max} :	400 mm
Maximum sliding distance	
H3G:	100 mm
H3G2:	135 mm
Temperature range (permanent exposure):	130°C
Version GS:	
Static friction coefficient μ_0 :	0.18
Sliding friction coefficient µ:	0.14
Version GS ULTRAglide:	
Static friction coefficient μ_0 :	0.07
Sliding friction coefficient µ:	0.07
Material:	
Metal components:	Steel, electro-galvanised
Slide bar:	Polyamide, glass fibre reinforced
Version ULTRAglide:	With additional Nano coating

* The permissible bending moment of the connecting element (threaded rod or threaded tube) may restrict the application!

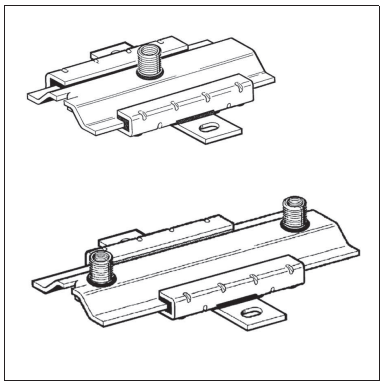
Adm. load FZ * under stress of fire

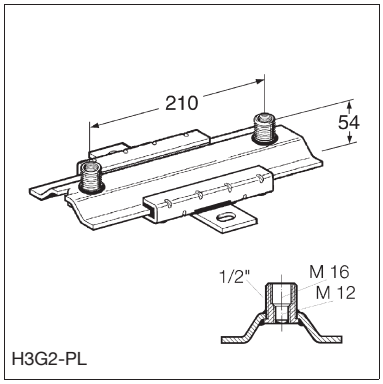
FWD 30 [N]	FWD 60 [N]	FWD 90 [N]	FWD 120 [N]
≤ 1.000	≤ 540	≤ 360	≤ 260

FZ = max. adm. tensile load

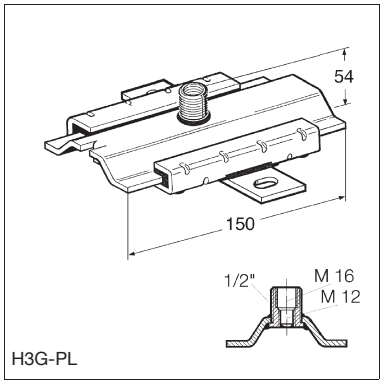
* The load capacity of the connecting elemente used is to be respected, this applies in particular under stress of fire.

Type	W [kg]	Quantity [pack]	Part number
H3G2	1.55	10	**126700**
H3G	1.12	10	**149295**
H3G ULTRAglide	1.12	10	**110586**
H3G2 ULTRAglide	1.55	10	**110588**

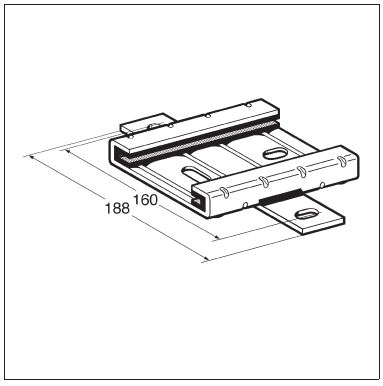




H3G2-PL



H3G-PL



Slide Set GS H3G-PL

Group: 1336

Application

Heavy-duty Slide Set for plant construction, to be used on Sikla Channels, brick or concrete walls and on bearers. This Slide Set version is especially suitable for bolted mounting to the building structure.
To be used preferably in combination with Sikla Pipe Clamp Stabil D-3G and Chilled Water Clamp SKS Top-2C.
Various connection options of the pipe clamps depending on the respective load: M12, M16 or with $^1/_2$" adapters using the external thread (see Adapter AD f/f).
Sound absorption by means of glass fibre reinforced polyamide slide rails.
When using the version **ULTRAglide** the resultant shear force is halved. By this the realisation of optimized supporting structures is possible.
Especially suitable for ceiling and floor mounting solutions and as a guide for rising pipes.

Installation

For pipes of NB 100 or larger having to be spaced at a distance from the Slide Set, or under conditions of reversed bending stress, the 3G triple thread nuts are to be secured by screwing on a $^1/_2$" Locking Nut.

Technical Data

Permissible load for ceiling mounting:	5.0 kN
Permissible load for floor mounting:	9.0 kN
Lever arm L_{max} :	400 mm
Maximum sliding distance:	
H3G-PL:	100 mm
H3G2-PL:	135 mm
Temperature range (permanent exposure):	130°C
Version GS:	
Static friction coefficient μ_0 :	0.18
Sliding friction coefficient μ:	0.14
Version GS ULTRAglide:	
Static friction coefficient μ_0 :	0.07
Sliding friction coefficient μ:	0.07
Material:	
Metal components:	Steel, electro-galvanised
Slide bar:	Polyamide, glass fibre reinforced
Version ULTRAglide:	With additional Nano coating

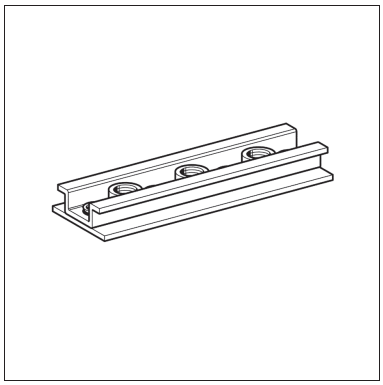
Adm. load FZ * under stress of fire

FWD 30 [N]	FWD 60 [N]	FWD 90 [N]	FWD 120 [N]
≤ 1.000	≤ 540	≤ 360	≤ 260

FZ = max. adm. tensile load

* The load capacity of the connecting elements used is to be respected, this applies in particular under stress of fire.

Type	W [kg]	Quantity [pack]	Part number
H3G2-PL	1.84	10	**126658**
H3G-PL	1.42	10	**149301**
H3G-PL ULTRAglide	1.42	10	**110587**
H3G2-PL ULTRAglide	1.84	10	**110589**

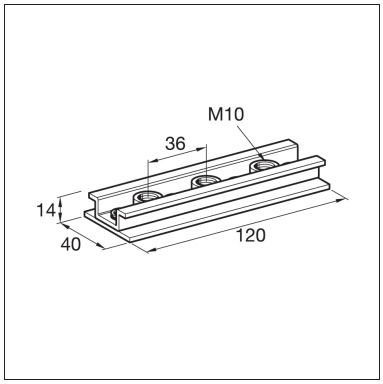


Slide Element GS 41

Group: 1336

Application

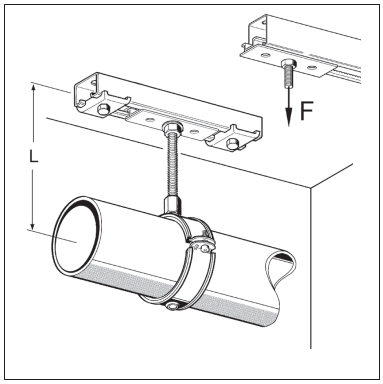
Slide element for use in Sikla Channels MS 41. For single and, using a Tandem Connector, double mounting options.
The sliding distance is determined by the length of the rail. Holding Brackets are to be used for securing the slide element. Alternatively, the Sikla Channel Holder SH may be used.
Any option in combination with Sikla Pipe Clamps Ratio S and Stabil D-3G may be realised.
Various connection options with pipe clamps in the range between M12 and R1". For these connection options, the corresponding Mounting Plate could be screwed directly with the slide element by means of bolts M10 x 20.
Suitable for ceiling and floor mounting solutions and as a guide for rising pipes.



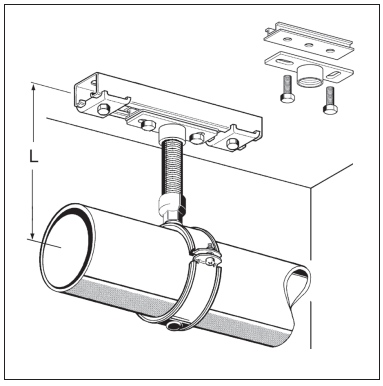
Technical Data

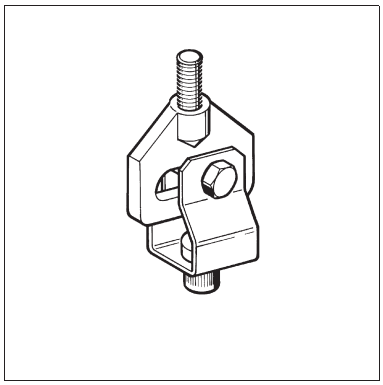
Permissible load overhead mounting:	
Single mounting:	6 kN
Double mounting:	8 kN
The permissible load capacity of the channel has to be respected.	
Permissible load floor mounting:	
Single mounting/Double mounting:	4 kN
Single mounting with mounting plate:	8 kN
Lever arm L_{max} for single mounting:	350 mm
Static friction coefficient μ_0 :	0.16
Sliding friction coefficient μ:	0.14
Material:	Steel, electro-galvanised

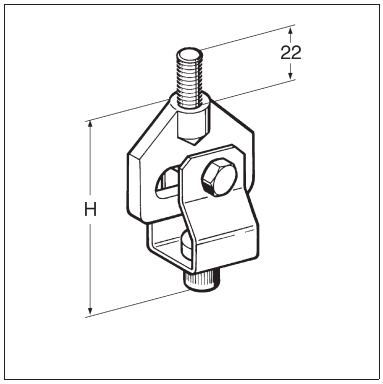
The permissible bending moment of the connection elements (threaded rod or threaded tube) may restrict the application!

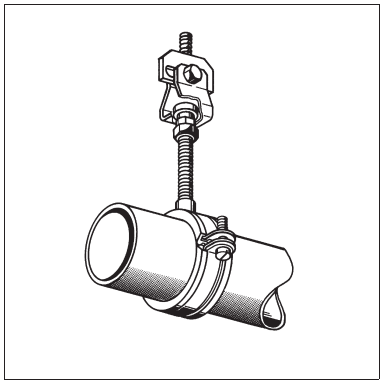


Type	Thread connection	W [kg]	Quantity [pack]	Part number
41 - M10	M10	0.18	10	**190658**









Slide Element GLE J

Group: 1343

Application
Height-adjustable suspension slide element for all mechanical services.
Can be fixed as a single mounting element directly to the ceiling or, in case of parallel pipe runs, to Sikla Channels.

The slide roller located in the suspended section provides for smooth, jerk-free and silent sliding.

Scope of delivery
Completely pre-assembled.

Installation
The selected height is to be secured by means of a locking nut.

Technical Data

Type	FZ * [kN]
J 8	3.5 kN
J 10	3.5 kN
J 12	6.0 kN
J 16	6.0 kN

Adm. load FZ * under stress of fire

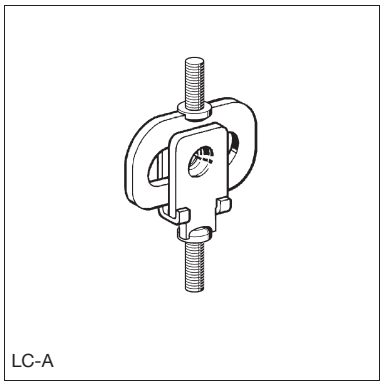
Type	FWD 30 [N]	FWD 60 [N]	FWD 90 [N]	FWD 120 [N]
J10	≤ 1.100	≤ 600	≤ 400	≤ 300

FZ = max. adm. tensile load

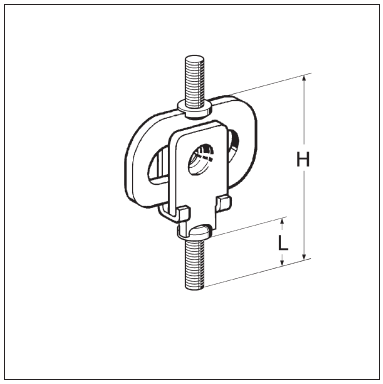
* The load capacity of the connecting elements used is to be respected, this applies in particular under stress of fire.

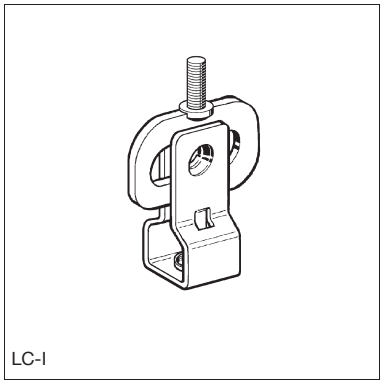
Maximum lateral deviation angle:	10°
Length of drop rod of threaded rod:	No limitation
Maximum sliding distance:	25 mm
Maximum height adjustment:	15 mm
Static friction coefficient μ_0 :	0,23
Sliding friction coefficient μ:	0,15
Material:	Steel/ cast iron, electro-galvanised

Type	Thread connection	Anchor size	Height H [mm]	W [kg]	Quantity [pack]	Part number
J 8	M8	M8	85	0.19	25	**126852**
J 10	M10	M10	85	0.19	25	**126861**
J 12	M12	M12	95	0.29	25	**126870**
J 16	M16	M12	95	0.27	25	**126889**

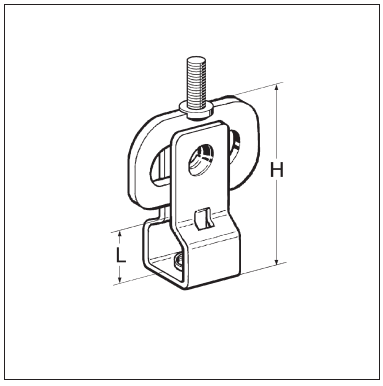


LC-A





LC-I



Slide Element GLE LC

Group: 1343

Application

Suspension slide element which can be fixed as a single mounting element directly to the ceiling or, in case of parallel pipe runs, to Sikla Channels.

- Pendular function allows for slight lateral movements.
- The slide roller located in the suspending section provides for smooth, jerk-free and silent sliding.
- For Type LC-A an additional extension is not needed, if a directed preselection of the thread length is done; especially suitable for different isolation.

Scope of delivery

Completely pre-assembled.

Installation

Type LC-I allows for height adjustment by offering a screw depth of up to 15 mm.
For fixing the position of the Slide Element, a locking nut has to be used.

Technical Data

Working load (tension):	1 kN
Sliding distance:	Max. 25 mm
Maximum swinging angle:	2°
Material:	Steel, electro-galvanised

Type	Thread connection to building structure	Thread connection to system x L	Height H [mm]
LC-A 22	M8 x 22	M8 x 22	76
LC-I	M8 x 22	M8 /15*	68

* range for height adjustment

Type	W [kg]	Quantity [pack]	Part number
LC-A 22	0.09	100	**151069**
LC-I	0.09	100	**151078**

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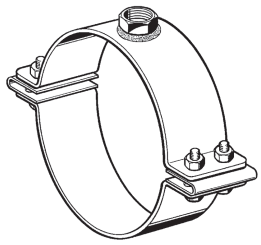
Fixed Point Clamp FS



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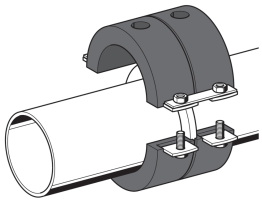
Chilled Water Fixed Point Clamp FKS



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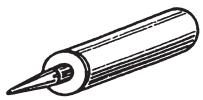
Sealant DP 30/45



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Mounting Kit VP A/B

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Mounting Kit VP SDE 2

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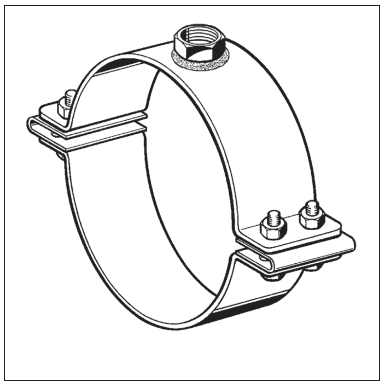
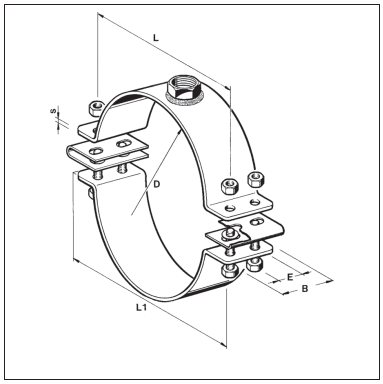
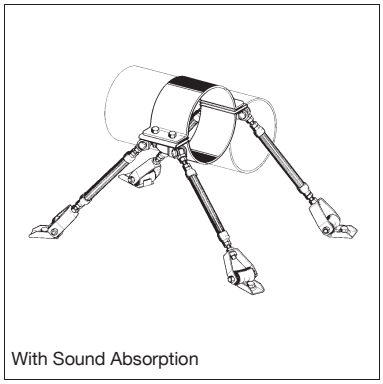
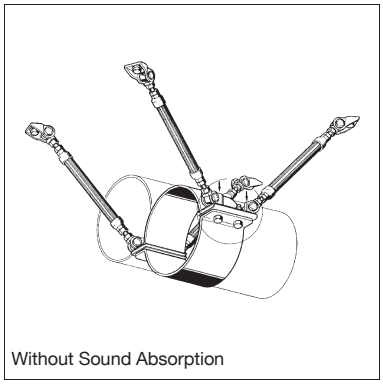






With Sound Absorption



Without Sound Absorption

Fixed Point Clamp FS

Group: 1380

Application

To be used for Fixed Point installations in combination with Mounting Kits.
For completion a Mounting Kit (with or without sound absorption) and 4 braces (Sikla threaded tubes or rods) are needed.
For professional dimensioning of these components according to fixed point loads (up to 25 kN with sound absorption or up to 35 kN without sound absorption) our staff members give advice.
The symetric construction enables absorption of axial loads in both directions.
The centrically welded M16 nut offers further connection possibilities.

Scope of delivery

Complete with 4 clamping bolts and 4 nuts M16, from size 108 mm onwards with spring inserts.
Clamping bolts and spring inserts are fixed and retained to the lower part of the clamp; nuts are supplied loose.

Installation

Tighten clamping bolts equally with the torque M as mentioned in the table.

Type	Tightening torque **M** (Nm) [1]
1/2" ... 1 1/2"	50
57 mm ... 3"	80
108 mm ... 521 mm	100

[1] Tightening torque for combination FP clamp with steel pipe DIN EN 10220 / normal wall thickness. For pipes with smaller wall thickness or other material, the values have to be reduced.

Technical Data

Material: Steel, all parts galvanised

Type d [mm]	NB	B [mm]	s [mm]	L [mm]	L_1 [mm]	E [mm]	W [kg]	Part number
21.3	1/2"	80	5	74	106	45	1.05	**159979**
26.9	3/4"	80	5	79	111	45	1.09	**159988**
33.7	1"	80	5	86	118	45	1.15	**159997**
42.4	1 1/4"	80	5	95	127	45	1.25	**160007**
45		80	5	97	129	45	1.29	**160016**
48.3	1 1/2"	80	5	101	133	45	1.31	**160025**
57		80	6	109	141	45	1.67	**160034**
60.3	2"	80	6	113	145	45	1.69	**160043**
76.1	2 1/2"	80	6	129	161	45	1.87	**160052**
88.9	3"	80	6	141	173	45	2.09	**160061**
108		100	6	166	214	50	3.31	**160070**
114	4"	100	6	172	220	50	3.35	**160089**
133		100	6	191	239	50	3.67	**160098**
139	5"	100	6	198	246	50	3.78	**160104**
159		100	6	207	255	50	4.05	**160113**
168	6"	100	6	217	265	50	4.07	**160122**
219	8"	100	6	278	326	50	4.91	**160131**
274	10"	100	6	331	379	50	5.57	**160140**
324		100	8	390	438	50	8.22	**160159**
356		100	8	422	470	50	8.94	**160168**
368		100	8	434	482	50	9.17	**160177**
419		100	8	485	533	50	9.99	**160195**
508		100	8	574	622	50	11.68	**160201**
521		100	8	587	635	50	13.20	**160210**

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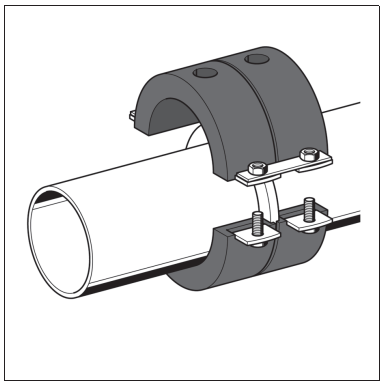
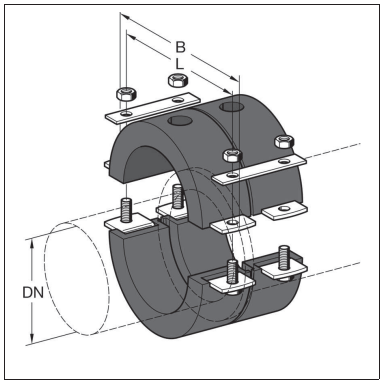
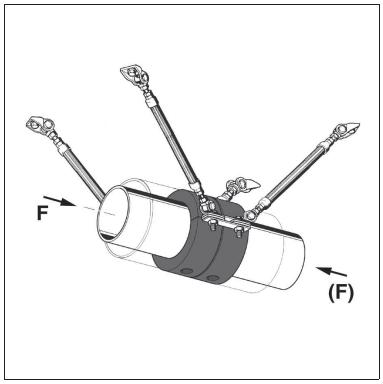






Chilled Water Fixed Point Clamp FKS

Group: 1382

Application

Chilled Water clamp for the absorption of axial forces.
Especially used for risers or as fixed point clamp. The contraction forces are transferred to the pipe clamp by a pressure ring welded to the perimeter of the pipe. The clamp is anchored to the building structure via an installed anchor bracket.

Scope of delivery

4 half shells, 2 splice plates, 1 pressure ring as well as bolts and nuts.
Delivery time: 10 working days

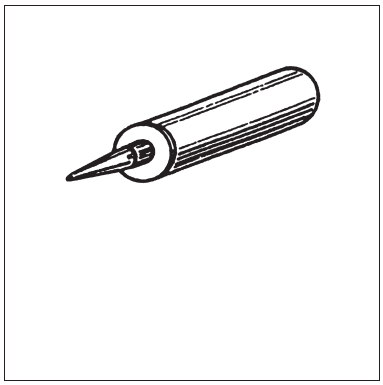
Installation

1. Weld pressure ring to pipe at location of required anchor point and conserve subsequently.
2. Apply a thin bead of sealant to the inside adjacent shell faces of the clamp.
3. Position clamp shells on either side of the pressure ring and connect via splice plate.
4. Check if joint between the clamps is closed tightely by the sealant.
5. Install refrigeration clamp by means of Mounting Kit.

Technical Data

Insulation:	Closed-cell PUR-foam RG 250 kg/m^3
Diffusion resistance:	μ = 2500
Thermal conductivity:	λ = 0.040 W/mK (0°C)
Fire resistance:	B2

Type [NB]	Insulation thickness S [mm]	Max. Load of Fixed Point shear [kN]	L [mm]	B [mm]	W [kg]	Quantity [pack]	Part number
76.1	30	2.0	171	202	2.02	1	**190271**
88.9	30	2.0	179	206	2.28	1	**190289**
108	30	2.5	200	220	3.48	1	**190298**
114.3	40	3.0	230	274	4.24	1	**190307**
133	40	3.5	264	300	4.52	1	**190316**
139.7	40	5.0	264	300	4.82	1	**190325**
168.3	40	5.5	288	328	5.62	1	**190343**
219.1	60	9.5	399	439	16.14	1	**190352**
273	60	13.0	453	493	17.54	1	**190379**
323.9	60	14.5	504	544	23.34	1	**190388**



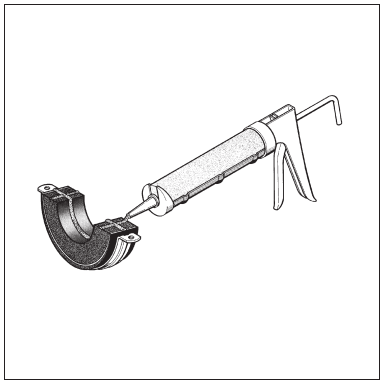
Sealant DP 30/45

Group: 1252

Application
For diffusion-proof installation of Sikla Chilled Water Fixed Point Clamp.

Scope of delivery
In cartridges of 310 ml.

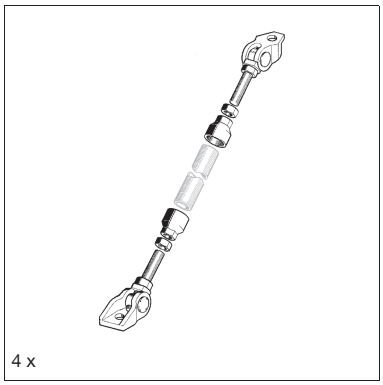
Installation
Prior to fitting a Chilled Water Fixed Point Clamp, a thin ring-shaped Sealant 30/45 is to be applied to the enhanced ring. After mounting of the clamp, check if the cant of the PUR-clamp fits exactly. The most favourable processing temperature is 20°C up to 25°C.



Technical Data

Steam diffusion resistance:	μ ≈ 10 000
Temperature range:	-80°C up to +90°C
Silicone-free	

Type	W [kg]	Quantity [pack]	Part number
30/45	0.49	1	**146283**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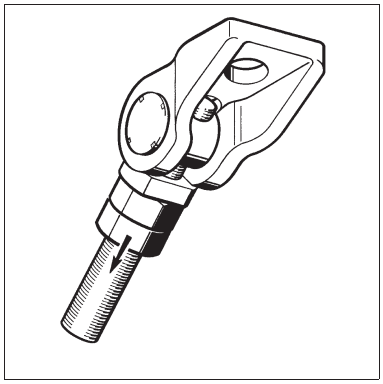
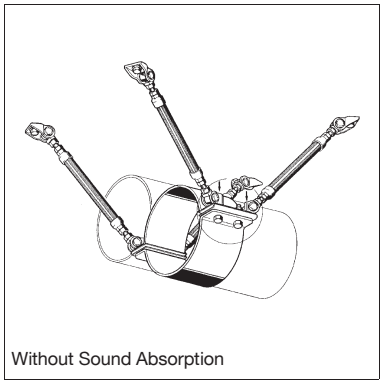



Without Sound Absorption

Mounting Kit VP A/B

Group: 1380

Application

Assembly of sloped supports for Fixed Points. With the beveled Universal Joint UG FP, the sloped supports could be mounted directly to the Fixed Point Clamp.

Scope of delivery

The Universal Joints UG and UG FP are already pre-assembled as Mounting Kits, containing Threaded Stud, Hexagon Nut and Rod Coupling.
By this, mistakes during assembly are almost impossible. Needed anchors have to be ordered separately.

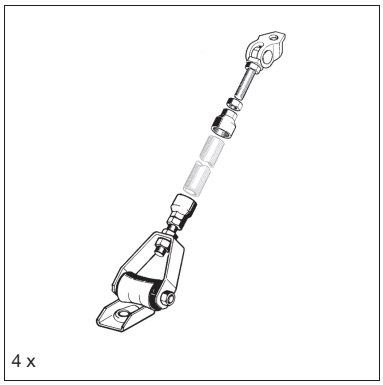
Installation

With the optionally cutted Threaded Tubes and Threaded Studs the Universal Joints UG and UG FP each are connected to a sloped support each.
Afterwards the four sloped supports are directly assembled with the UG FP and the Fixed Point Clamp.

Technical Data

Material: Steel, all parts galvanised

Type	W [kg]	Quantity [pack]	Part number
A/B-M12	3.85	1	**160663**
A/B-M16	4.65	1	**160672**
A/B-$^1/_2$"	4.05	1	**160681**
A/B-$^3/_4$"	4.80	1	**160690**
A/B-1"	5.39	1	**160706**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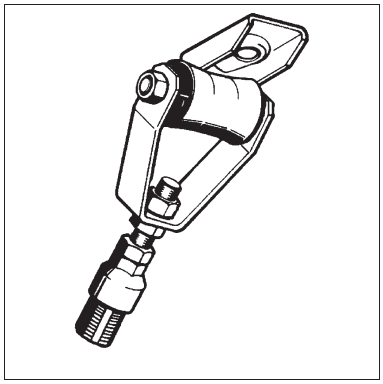

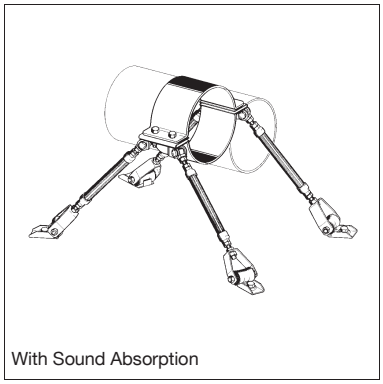
With Sound Absorption

Mounting Kit VP SDE 2

Group: 1380

Application

Pre-assembled supports kits for Fixed Points. With the beveled Universal Joint UG FP, the sloped supports can be mounted directly to the Fixed Point Clamp.

Scope of delivery

The Universal Joint UG FP and Sound Absorber SDE 2-UG 16 are already pre-assembled as Mounting Kits, containing Threaded Stud, Hexagon Nut and Rod Coupling. By this, mistakes during assembly are being eliminated. Anchors to be ordered separately.

Installation

By either using Threaded Tubes or Threaded Studs the Universal Joint UG FP and Sound Absorber SDE 2-UG 16 are then connected to make up a support . The four supports can then be directly mounted with the UG FP to the Fixed Point Clamp.

Technical Data

Material: Steel, all parts galvanised

Type	W [kg]	Quantity [pack]	Part number
SDE 2 A/B-M16	7.55	1	**178166**
SDE 2 A/B-$^1/_2$"	6.62	1	**178175**
SDE 2 A/B-$^3/_4$"	7.38	1	**178184**
SDE 2 A/B-1"	9.98	1	**178193**

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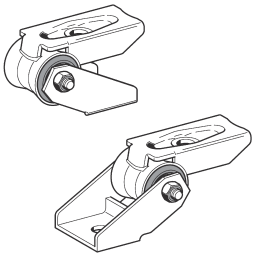
Sound Absorber SDE 2-SBV/ SBZ



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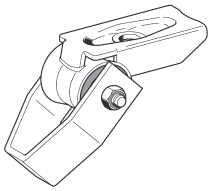
Sound Absorber SDE 2-UG 16



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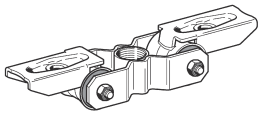
Sound Absorber SDE 2-FP 1



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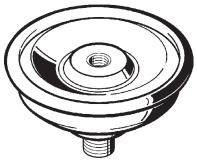
Sound Absorber SDE 1



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Pin Spanner SDE

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Sound Absorber SDE 0

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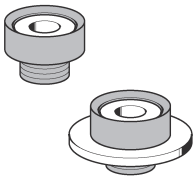
Sound Absorption Unit SDE



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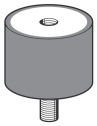
Acoustic Absorption Element AKE



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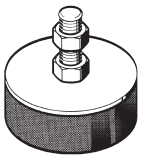
Rubber-Metal-Combination Element GMT



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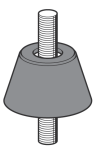
Sound Absorption Element GMT M8



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Rubber Profile SAL SBR/EPDM

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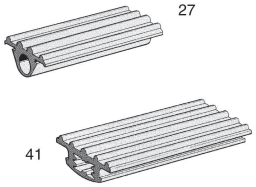
Rubber Profile SAL Silicone

Page **8**-12

Channel Lining SAL



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Sponge Rubber Lining MSK

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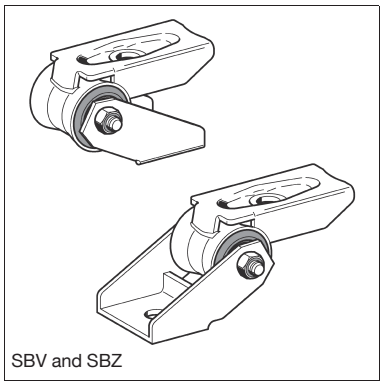
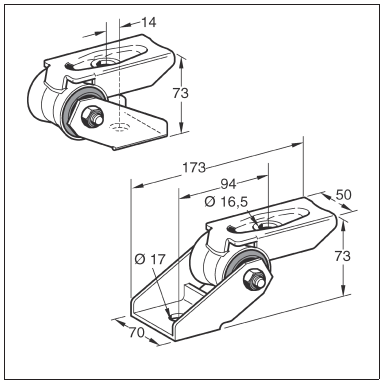
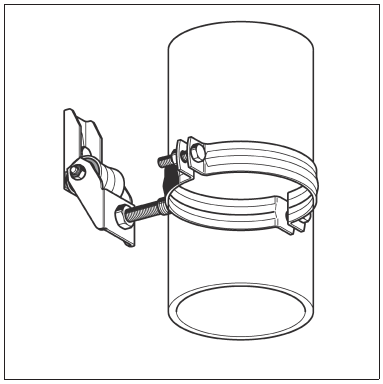
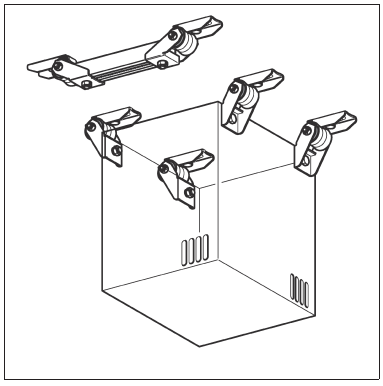
Glass Fibre Tape GSK

Page **8**-14


SBV and SBZ







Sound Absorber SDE 2-SBV/SBZ

Group: 1612

Application

Universal sound absorption element for heavy loads. Particularly suitable for soundproof installation

- of sound-insulated fixed points
- of devices in the fields of ventilation and air conditioning.

Can be fixed either directly to building components by means of an M16 heavy duty anchor or to steel structures. It is also possible to mount the Sound Absorber onto Sikla Channels (recommended from size 41/41 onwards), or to insulate complete channel structures from the building structure.
The element is also suitable as joint fixing for channels on angular ceilings, walls and floors.

Scope of delivery

Both types (SBV or SBZ) consist of identical components; the joint bracket, which is to be connected with the support system is pre-assembled by means of an M10 hexagon bolt and safety nut; the position of this bracket determines the type.

Installation

For soundproof fixed points, the use of Sikla Stabil Pipe Clamps is recommended. Installation can be made either as
a) single point connection (centric on the 3G nut of a Stabil D-3G) or as
b) two point connection (on both sides of a Stabil D)

Technical Data

Working load (under tension or pressure for all directions in the plane of rotation):	Max. 10 kN
Sound absorption value:	Up to 15 dB(A)

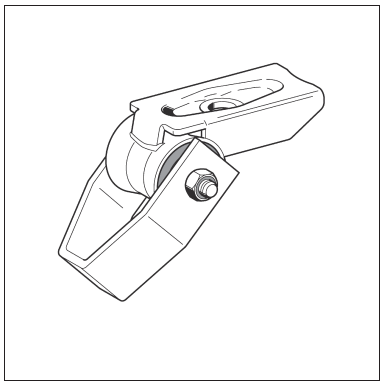
Note:
Lateral forces require additional support.
Dimensioning of the anchor and of further joining elements may restrict the application.

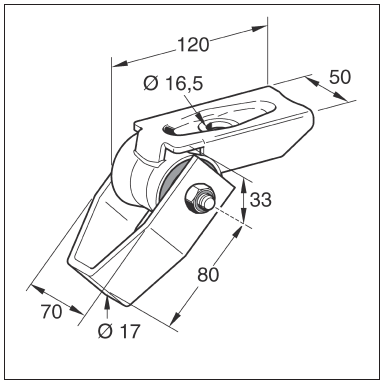
Type	Connection to building structure [mm]	Connection to system [mm]	Spring constant c [kN/mm]
SDE 2 - SBV	Ø 16.5	Ø 17.0	3.5
SDE 2 - SBZ	Ø 16.5	Ø 17.0	3.5

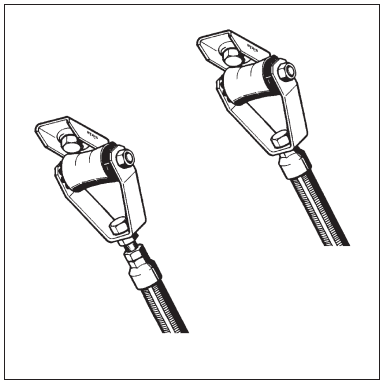
Material:

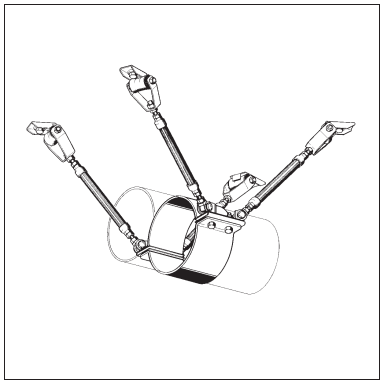
Metal Body:	Welded steel, electro-galvanised
Sound absorption insert:	PUR (foamed), RG 650 kg/m^3
Temperature range:	-30 up to +100°C

Type	W [kg]	Quantity [pack]	Part number
SDE 2 - SBV	1.00	10	**161406**
SDE 2 - SBZ	0.99	10	**161062**









Sound Absorber SDE 2-UG 16

Group: 1612

Application

Universal sound absorption element for heavy loads. Particularly suitable for soundproof Installation according to DIN 4109

- of single connections to M16 Threaded rods, also on girders or roof structures of any gradient
- of soundproof Fixed Points in trestle arrangement using 4 SDE 2-UG 16.

Suitable for installation of soundproof inclined supports, or onto Sikla Channels (recommended from size 41/41).

Scope of delivery

The joint bracket, which is to be connected with the support system, is pre-assembled using an M10 hexagon bolt and safety nut.

Installation

For soundproof single point installation we recommend to connect the SDE 2-UG 16 to the centric thread connection of the Stabil D-3G.
For soundproof Fixed Points in trestle arrangement (see picture below), please see the notes in the Fixed Point section.
Instead of the normally used 4 Universal Joints, 4 Sound Absorber SDE 2-UG 16 are used to fix on the building structure.

Technical Data

Working load (tension or pressure for all directions in the plane of rotation):	Max. 10 kN
Fixed Point force in pipe axis direction for trestle arrangement as per picture below:	Max. 25 kN
Sound absorption value:	Up to 15 dB(A)

Note:
Lateral forces require additional support.
Dimensioning of the anchor of further joining elements may restrict the application.

Type	Connection to building structure [mm]	Connection to system [mm]	Spring constant c [kN/mm]
SDE 2 - UG 16	Ø 16.5	Ø 17.0	3.5

Material:

Metal Body:	Welded steel, electro-galvanised
Sound absorption insert:	PUR (foamed), RG 650 kg/m^3
Temperature range:	-30 up to +100°C

Type	W [kg]	Quantity [pack]	Part number
SDE 2 - UG 16	0.98	10	**161053**

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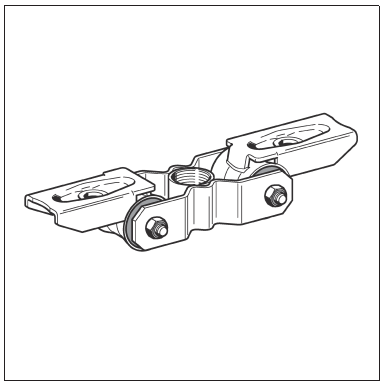
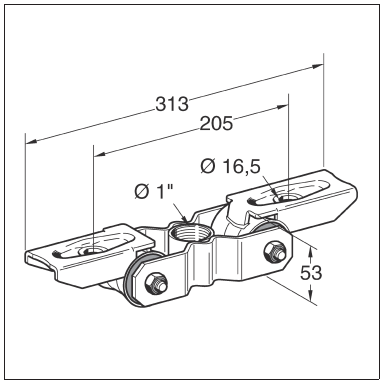
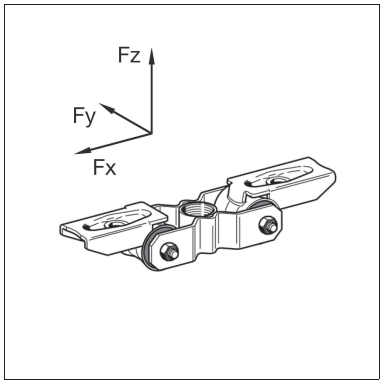
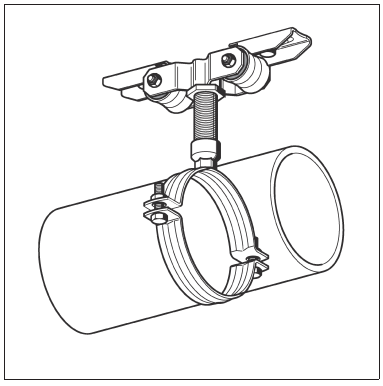








Sound Absorber SDE 2-FP 1

Group: 1612

Application

Universal sound absorption element for heavy loads. Particularly suitable for soundproof installation according to DIN 4109

- of single point connections to threaded tubes up to 1"
- as a base for soundproof fixed points

Can be fixed either directly to building components by means of two M16 heavy duty anchors or to steel structures, or onto Sikla Channels (recommended from size 41/45).

Scope of delivery

The joint bracket, which is to be connected with the support system, is pre-assembled with two identical base components using two M10 hexagon bolts and safety nuts.

Installation

For soundproof single point installations and for fixed points we recommend to connect the SDE 2-FP 1 to the centric thread connection of the Stabil D-3G. When using the 1" thread of the clamp, a 1" Locking Nut (part No. 157117) has to be used.

Technical Data

Sound absorption value: Up to 15 dB(A)

Type	Connection to building structure [mm]	Connection to system [female thread]
SDE 2 - FP 1	Ø 16.5	1"

Working load (tension or pressure):

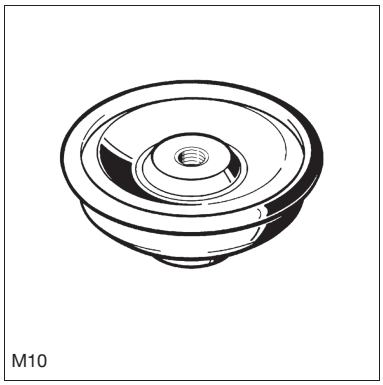
Type	+/- Fx [kN]	Fy [kN]	+/- Fz [kN]
SDE 2 - FP 1	20.0	-	20.0

Note:
Lateral forces require additional support
Dimensioning of the anchor and of further joining elements has to be taken into consideration.
In fixed point constructions as shown in the picture below, the fixed point force is limited by the permissible bending moment of the threaded tube. (For load chart see "Installation Guideline").

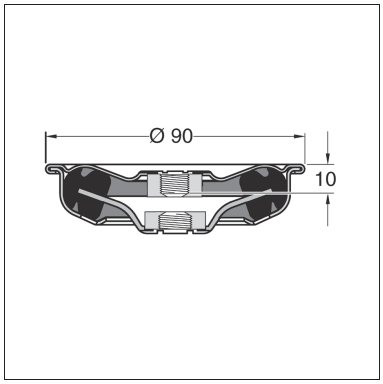
Material:

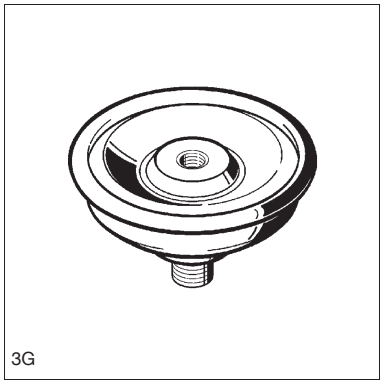
Metal Body:	Welded steel, electro-galvanised finish
Sound absorption insert:	PUR (foamed), RG 650 kg/m^3
Temperature range:	-30 up to +100°C

Type	W [kg]	Quantity [pack]	Part number
SDE 2 - FP 1	2.02	10	**161071**

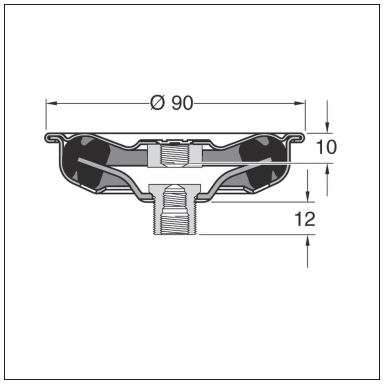


M10





3G



Sound Absorber SDE 1

Group: 1612

Application
Various applicable sound absorption element with M10, M12 or triple thread connection options (also according to DIN 4109). Suitable for overhead, floor and wall mounting purposes in the plant construction.

Scope of delivery
With M10 x 25 grub screw (supplied loose).

Installation
The grub screw has to be screwed as much as possible into the thread for connection to the building structure using an anchor with an internal thread. Tighten the Sound Absorber with Pin Spanner SDE.

Note:
When implementing wall mounting solutions, high bending moments should be avoided, e.g. by arranging a Channel section or a Support Bracket onto several Sound Absorbers.

Technical Data

Permissible static loads (permanent exposure):	
Tensile force:	2.5 kN
Pressure:	3.0 kN
Shear:	0.5 kN
Spring constant cd, depending on static load:	
at 0.12 kN:	13.7 kN/cm
at 0.40 kN:	16.9 kN/cm
at 0.80 kN:	30.5 kN/cm
Sound absorption value:	Up to 18.9 dB(A)
Temperature range:	-50°C up to +110°C

Type	Connection to building structure	Connection to system
SDE 1 - M10	M10	M10
SDE 1 - 3G	M10	3G-thread M8/M10/M16

Material:

Metal parts:	Steel, electro-galvanised
Sound absorption insert:	EPDM, hardness 45+/-5° Shore

Type	W [kg]	Quantity [pack]	Part number
SDE 1 - M10	0.27	25	**162735**
SDE 1 - 3G	0.27	25	**136989**

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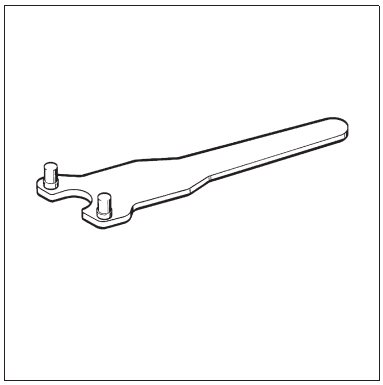


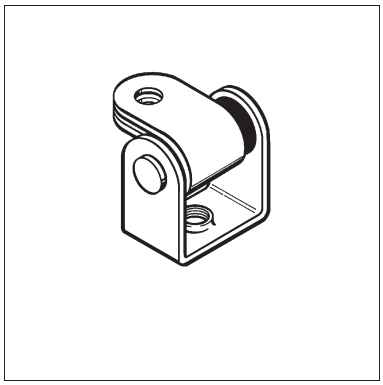
Pin Spanner SDE

Group: 8108

Application

Tool for safely tightening the Sound Absorber SDE.

Type	W [kg]	Quantity [pack]	Part number
Pin Spanner SDE	0.21	1	**146609**



Sound Absorber SDE 0

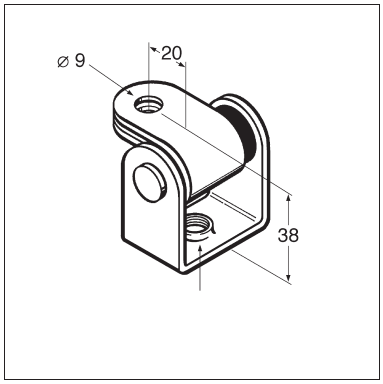
Group: 1610

Application

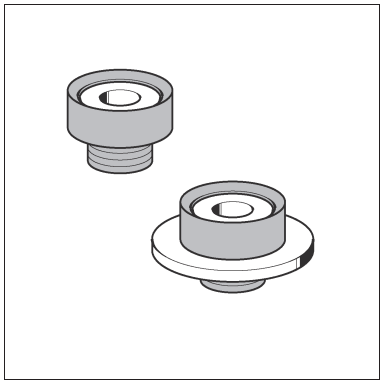
May be used for ventilation systems and other M&E services, mainly for direct ceiling attachment.
Can be combined with other support components such as Ducting Angles, Pipe Clamps, Channels or special structures. May also function as an efficient band hanger when turned by 180°.

Technical Data

Working load:	1.0 kN
Sound absorption insert:	SBR/EPDM (black)
Hardness:	45+/-5° Shore
Temperature range:	-50°C up to +110°C
Class:	B2 according to DIN 4102
Sound absorption value:	Up to 15 dB(A)
Material:	Steel, electro-galvanised



Type	Connection to building structure	System connection	W [kg]	Quantity [pack]	Part number
SDE 0 - M8	Ø 9 für M8	M8	0.07	100	**105068**
SDE 0 - M10	Ø 9 für M8	M10	0.07	100	**105077**



Sound Absorption Unit SDE

Group: 2712 / 1610

Application

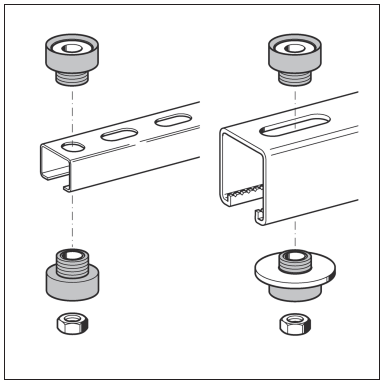
Sound Absorption Element for use in combination with Sikla Channels in ducting systems (suitable also for sound proof requirements according to DIN 4109).

Scope of delivery

With inserted and retained washer.

Technical Data

Material:	TPE, black
Temperature range:	-50°C up to +110°C
Fire resistance:	B2 according to DIN 4102, non-dripping
Hardness:	50°+/-5° Shore
Washer:	Steel, galvanised



Type	For channel	Thread connection	Total-Height [mm]	Height of collar [mm]	W [kg]	Quantity [pack]	Part number
27		M8	15	7	0.01	100	**197973**
41	41	M8/M10	18	10	0.01	100	**107802**

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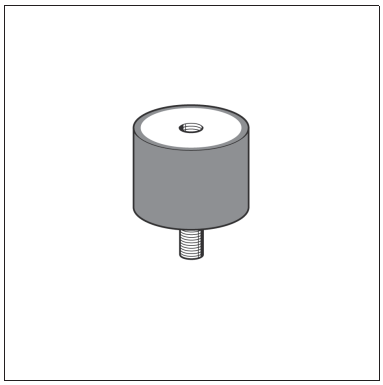
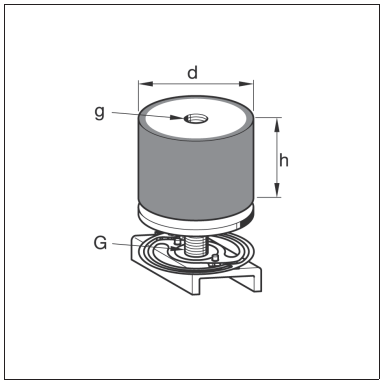
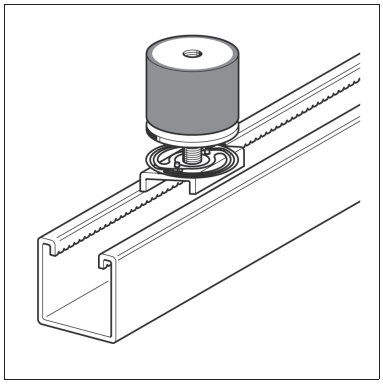






Acoustic Absorption Element AKE

Group: 1399

Application

Universally applicable sound absorption element for higher loads. Suitable for soundproof installation according to DIN 4109. Especially suitable for sound isolation of constructions made of Channels 41 or electrical equipment, e.g. pumps or ventilators.

Installation

Assembly in Channel 41 by means of Washer 8/40 and Speed Nut M8. The Acoustics Element is designed for pressure loads. Installation with dominant tensile loading or shear stress has to be avoided.
For these exceptional cases the load pressure has to be reduced to 1/3.

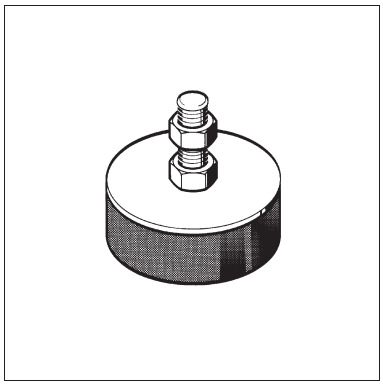
Technical Data

Type	d [mm]	h [mm]	Female thread g	Male thread G
41	40	30	M8 x 10	M8 x 23

Perm. pressure load: 0.15 - 0.70 kN
Spring deflection: 0.50 - 2.60 mm

Material
Metal part: Steel, galvanised
Insulation part: NR natural rubber, density 45 +/-5° Shore

Type	W [kg]	Quantity [pack]	Part number
AKE 41	0.09	20	**193983**



Rubber-Metal-Combination Element GMT

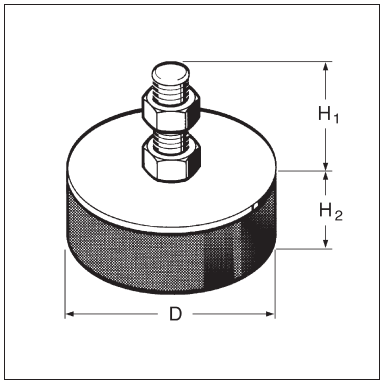
Group: 1399

Application

The Rubber-Metal Combination Element GMT suppresses vibrations originating from various systems. Such vibrations generated by the system (such as motors, boilers..) are normally transmitted as sound to the environment via rigid building structures. The mounting situation does not affect the efficiency of the Sikla Rubber-Metal Combination Element GMT, this element may also be applied as a horizontal stop buffer.

Scope of delivery

1 Set = 4 elements
Each element is accompanied by two hexagon nuts.

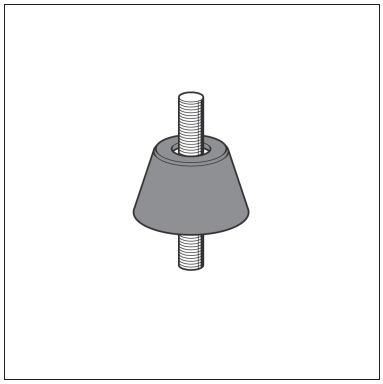


Technical Data

Type	Maximum load F_{max} [kN]	Mean spring constant c [kN/mm]
M12	5.0	2.2

Temperature range: -30°C up to +70°C
Material:
Sound absorption insert: Natural rubber, 57+/-5° Shore
Metal parts: Steel, electro-galvanised

Type	Connection	D [mm]	H1 [mm]	H2 [mm]	W [kg]	Pack. [Set]	Part number
GMT M12	M12	75	37	25	1.14	1	**117090**



Sound Absorption Element GMT M8

Group: 1610

Application

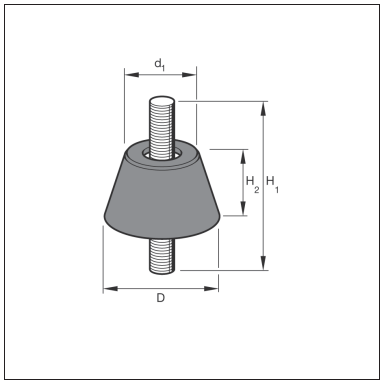
The rubber element suppresses vibrations generated by the system (such as motors, boilers, pumps, air conditioners, etc.) are normally transmitted as sound to the environment via rigid building structures.

Scope of delivery

1 box = 400 pieces

Technical Data

Typ	Max. permissible load (tension)
M8	0.2



Type	Thread [mm]	D [mm]	de_1 [mm]	H_1 [mm]	H_2 [mm]	W [kg]	Quantity [pack]	Part number
GMT M8	M8	40	26	63	24	0.05	400	**192584**

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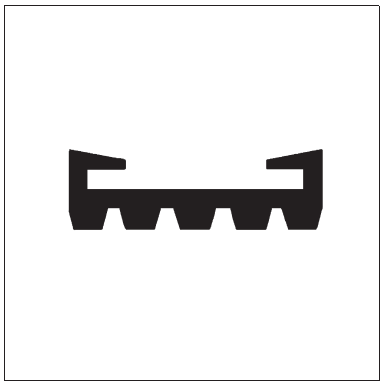
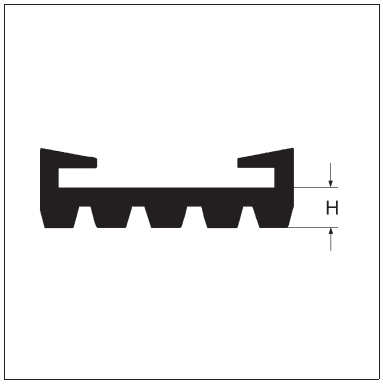




Rubber Profile SAL SBR/EPDM

Group: 1294

Application

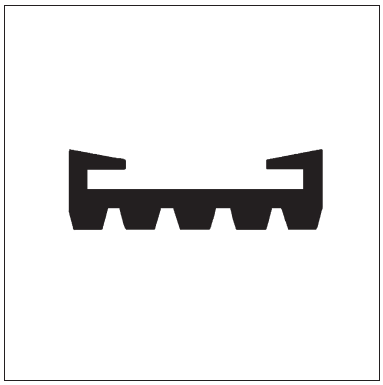
Sound absorption lining for steel straps and pipe clamps (also according to DIN 4109).

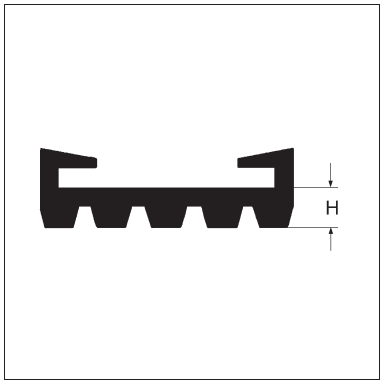
Application up to +110°C.

Technical Data

Material:	SBR/EPDM, black
Hardness:	45+/-5° Shore
Temperature range:	-50°C up to +110°C
Breaking elongation:	560 %
Tear strength:	500 N/cm^2
Impact absorption:	39 %
Fire resistance:	Material category B2 (DIN 4102), non-dripping
Sound absorption:	Up to18 dB(A) (from height 4.5 mm on)
Surface resistance:	2 x 10^{13} Ohm
Volume resistance:	2 x 10^{13} Ohm
Fully resistant to:	Diluted acids, lyes, alkaline solutions, water, aqueous solutions up to 70°C; No absorption of moisture
Partially resistant to:	Grease, mineral oil, animal or vegetable fats, ester and ketones
Not resistant to:	Hot oils, fuels, aliphatic and aromatic hydrocarbons and chloric gas
Durability:	Weatherproof, ageing and ozone-resistant, DIN 53508 and 53509 tested

Type	Steel strap [mm]	H [mm]	Number of ribs	Weight [kg/m]	Quantity roll [m]	Part number
STD 1	25 x 3.0	4.5	4	0.22	30	**146502**
STD 2	30 x 3.0	4.0	4	0.23	30	**146511**
STD 3	40 x 4.0	6.0	5	0.37	30	**146520**
STD 4	50 x 5.0	7.0	5	0.54	30	**146539**
STD 5	70 x 6.0	7.0	7	0.65	30	**146548**





Rubber Profile SAL Silicone

Group: 1292

Application

Sound absorption lining for steel straps and pipe clamps, also according to DIN 4109.

Application up to +200°C (temporarily up to +300°C, see technical data).

Technical Data

Material:	Silicone, red
Hardness:	45+/-5° Shore
Temperature range:	-60°C up to +200°C, permanent exposure approx. 2,000 h up to +250°C approx. 100 h up to +300°C
Breaking elongation:	350 %
Tear strength:	800 N/cm^2
Impact absorption:	30 %
Fire resistance:	Material class B2 (DIN 4102), non-dripping
Sound absorption:	Up to 16 dB(A)
Surface resistance:	1 x 10^{11} Ohm
Volume resistance:	1 x 10^{15} Ohm
Resistant to:	Animal and vegetable fats, glycerine and ethyl alcohol
Partially resistant to:	Diluted acids and lyes, chlorinated and aromatic solvents, and to lubricating oils
Not resistant to:	Chlorinated, aliphatic hydrocarbons, aromatic hydrocarbons, strong acids and strong lyes
Durability:	Weather-proof and ozone-resistant according to DIN 53509 and ageing-resistant according to DIN 53508
Sprinkler installations:	Approved and accepted by the VdS for use in sprinkler installations.

Approvals

In combination with Stabil Pipe Clamps or Pipe Loop Praktica S approved and accepted by VdS for use as sound absorption lining in sprinkler installations.

Type	Steel strap [mm]	H [mm]	Number of ribs	Weight [kg/m]	Qty. [m]	Part number
STD 1 SIL	25 x 3.0	4.5	4	0.17	30	**145644**
STD 2 SIL	30 x 3.0	4.0	4	0.17	30	**145653**
STD 3 SIL	40 x 4.0	6.0	5	0.33	30	**145662**
STD 4 SIL	50 x 5.0	7.0	5	0.43	30	**146557**

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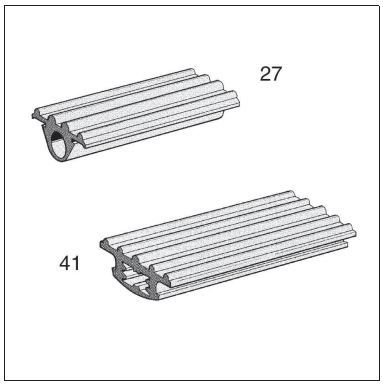
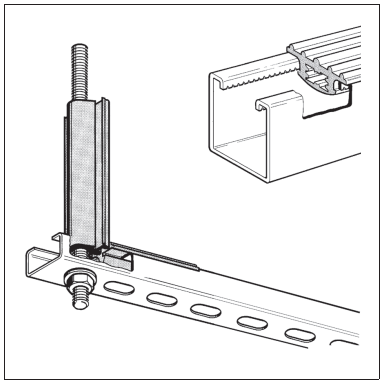




Channel Lining SAL

Group: 1611

Application

Sound Absorption Lining for inserting into Sikla Channels or fitting around threaded rods; mainly for use in ducting systems, also for sound proof installations as per DIN 4109.

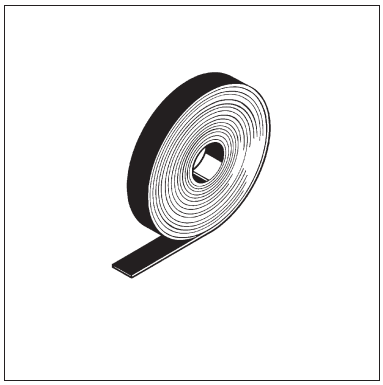
Scope of delivery

Rolls of 30 m or pieces of 50 mm each.

Technical Data

Material:	SBR/EPDM, black
Temperature range:	-50°C up to +110°C
Fire resistance:	B2 according to DIN 4102, non-dripping
Hardness:	50°+/-5° Shore

Type	Thread connection	Length of piece [mm]	Roll [m]	W [kg]	Quantity [pack]	Part number
27	M8/M10	-	30	6.00	1 Rolle	**195963**
27/L100	M8/M10	100	-	0.01	100	**195970**
41	M8/M10	-	30	14.27	1 Rolle	**101189**
41/L50	M8/M10	50	-	0.02	100	**101204**



Sponge Rubber Lining MSK

Group: 1293

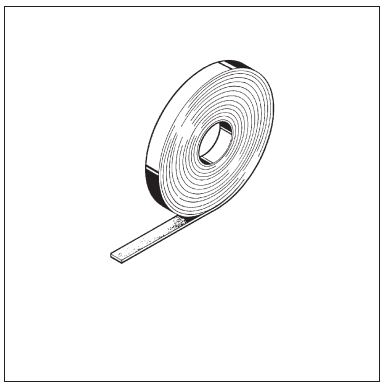
Application
Sound absorption lining for steel straps and pipe clamps.

Scope of delivery
In rolls, self-adhesive on one side, coated with peel-off foil on the adhesive side.

Technical Data

Sound absorption value:	12 dB(A)
Hardness:	20° Shore
Temperature range:	-25°C up to +95°C
Resistent to:	Diluted acids, lyes, alkaline solutions, water, aqueous solutions up to 70°C, No absorption of moisture
Not resistant to:	Hot oils, fuels, aliphatic and aromatic hydrocarbons and chloric gas

Type	Width [mm]	Thickness [mm]	Roll [m]	Qty. [m]	Part number
20 x 3.0	20	3.0	10	150	**137616**
20 x 4.0	20	4.0	10	150	**137412**
20 x 6.0	20	6.0	10	150	**143590**
25 x 3.0	25	3.0	10	120	**137722**
30 x 3.0	30	3.0	10	100	**137607**



Glass Fibre Tape GSK

Group: 1291

Application
Insulation insert for pipe clamps to prevent from contact corrosion and to ensure thermic separation.

Scope of delivery
In rolls, self-adhesive on one side, coated with PE peel-off foil on the adhesive side. Adhesive: epoxy resin.

Technical Data

Temperature range:	Up to +1100°C permanent exposure
Thermal conductivity:	λ = 0,07 W/(mK) bei 200°C λ = 0,10 W/(mK) bei 400°C λ = 0,15 W/(mK) bei 600°C λ = 0,22 W/(mK) bei 800°C
Specific gravity:	180 - 240 kg/m^3
Chemical behaviour:	Neutral

Type	Width [mm]	Thickness [mm]	Roll [m]	Qty. [m]	Part number
25 x 2	25	2.0	10	120	**193037**
30 x 2	30	2.0	10	100	**193044**
40 x 2	40	2.0	10	70	**193051**
50 x 2	50	2.0	10	60	**193068**
60 x 2	60	2.0	10	50	**193075**
70 x 2	70	2.0	10	40	**193082**

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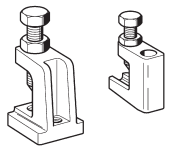
Beam Clamp TCS



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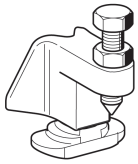
Beam Clamp TCS 41



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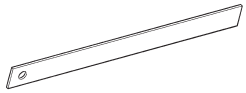
Safety Strap SL VdS



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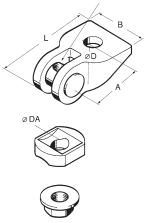
Universal Joint UG



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Beam Clip P

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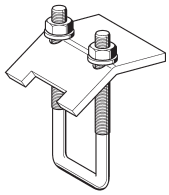
U-Holder SB 41



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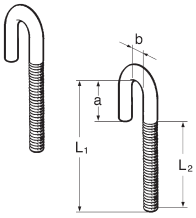
Threaded Hook GH



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Hook Sleeve SP

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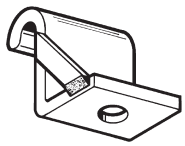
Hook Bracket SPK



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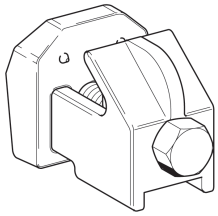
Bulb Flat Steel Beam Clamp



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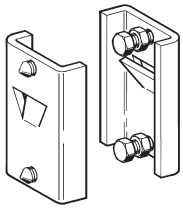
Clamping End SKL



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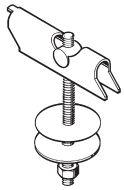
Toggle Stud KD



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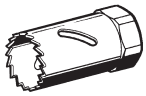
Hole Saw



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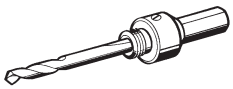
Holder with Centre Drill ZBT



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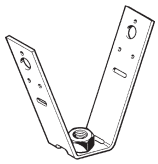
Roof Hanger TRH



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Piercing Tool LOT

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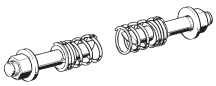
Hole Punch LOT



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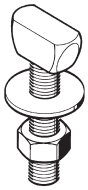
Wedge Bolt KB



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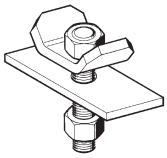
Clamp VBO C 40



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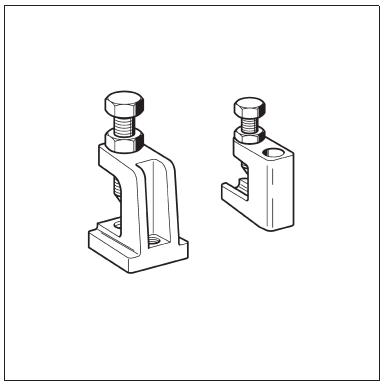
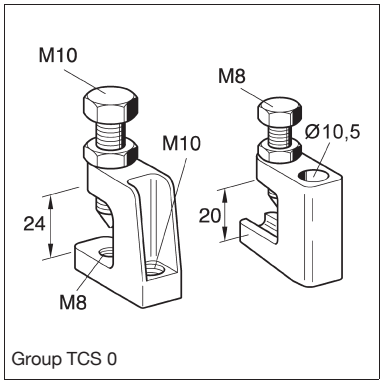
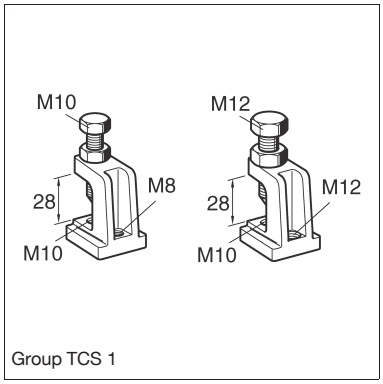
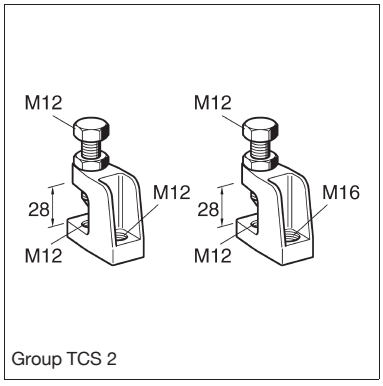




Group TCS 0



Group TCS 1



Group TCS 2

Beam Clamp TCS

Group: 1337

Application

Heavy-duty connection element which, in combination with grub screws (M8 up to M16), are suitable for mounting pipes, ducts and equipments to steel beams (I-, T-, U-and angle steel beams).

- The combination with a Universal Joint provides for vertically aligned attachment to inclined beams.
- Can serve as single mounting element for installing crossbars and for fixing cantilever structures.
- Due to their special base profile, Beam Clamps TCS 1 can also be slid along and retained in the opening of Sikla Channels of the 41 series.

Scope of delivery

Pre-assembled with clamping bolt and locking nut.

Installation

Tighten the clamping bolt of the Beam Clamp first by hand, then tighten down with a spanner according to the mounting structures. The hardened point of the clamping bolt will penetrate the comparatively soft material of the beam, ensuring a solid and highly secure connection. Tighten the locking nut for securing the installation.

For installation near a cutting edge of a channel, an additional Holding Bracket HK 41 has to be mounted.

Note: Respect relevant mounting instructions!
For FM-construction use thread ≥ M10 only!

Technical Data

The nominal loads indicated apply to new Beam Clamps fixed to undamaged beam flanges only.

Working load: Type TCS 0: 3.5 kN
Type TCS 1: 5.0 kN
Type TCS 2: 8.5 kN

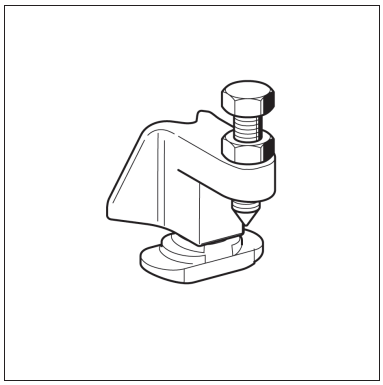
Material: Body in cast-iron, electro-galvanised and clamping bolts in steel, class 8.8., electro-galvanised

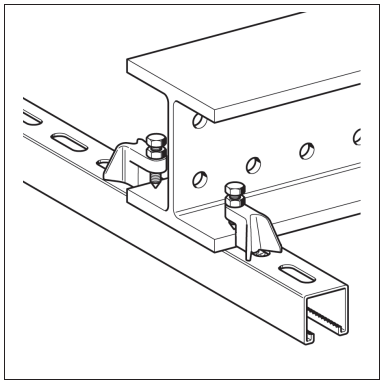
Approvals

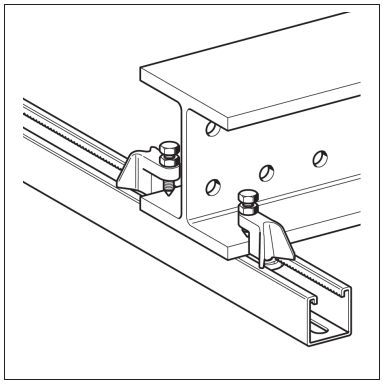
Approved and accepted by VdS and FM for use with stationary fire extinguishing systems.

TCS O LC Approval: G4950065 and G4950066 (erected mounting with M10 up to a maximum height h_{max} = 150 mm and up DN 50 only). For further types and different application fields: G4820023; G4830054; G4800039/ ...45; G4990027.

Type	Connection [fore/aft]	Clamping range on parallel flange [mm]	W [kg]	Quantity [pack]	Part number
TCS 0 LC	Ø 10.5	18	0.10	50	**156648**
TCS 0 M8/M8	M8/ M8	22	0.14	50	**178283**
TCS 0 M8/M10	M8/M10	22	0.14	50	**174206**
TCS 1 M10/M8	M10/M 8	26	0.21	50	**116770**
TCS 1 M10/M10	M10/M10	26	0.21	50	**116150**
TCS 1 M10/M12	M10/M12	26	0.22	50	**167332**
TCS 2 M12/M12	M12/M12	26	0.28	25	**174224**
TCS 2 M12/M16	M12/M16	26	0.27	25	**174215**







Beam Clamp TCS 41

Group: 1337

Application
The Beam Clamp 41 allows for a direct connection of Sikla 41mm slotted strut channel to beam without having this obstruction. In order to achieve this, the foot of the Beam Clamp must be inserted into the slot on the back of the channel.

Scope of delivery
Cast iron part, completely pre-assembled with clamping bolt and locking nut.

Installation
Insert the foot of the Beam Clamp into the slot on the back of the channel, twist by 90° and push it against the beam's flange. First tighten bolt of Beam Clamp (hand-tight), then tighten further with 1 1/2 turns. The sharpened tip of the bolt will dent the beam thus providing a high level of safety. At last tighten locking nut. Every channel (statically determined) has to be fixed at least twice.

Technical Data
The following nominal load applies for a new Beam Clamp fixed to an undamaged beam flange.

Nominal load: 4.0 kN
Material: Cast iron, clamping bolt 8.8, electro galvanised

Type	Clamping range on parallel flange [mm]	W [kg]	Quantity [pack]	Part number
TCS 41	20	0.12	50	**110004**

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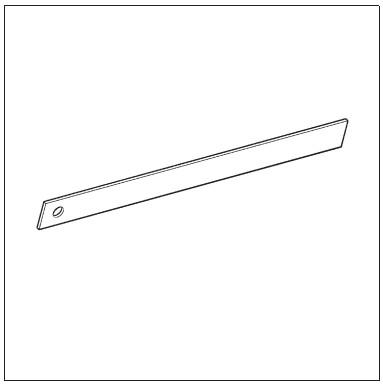
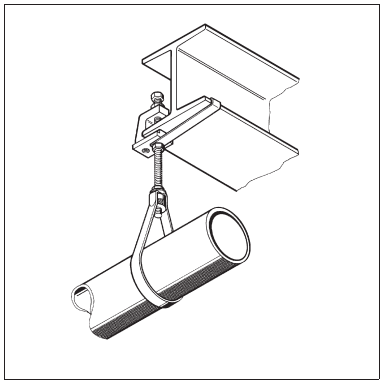




Safety Strap SL VdS

Group: 1338

Application

Additional safety feature for Beam Clamps supporting tubes of nominal diameter NB 80 and larger, required for installations meeting the Vds standard. Dimensions and material meet the VdS CEA-guideline for Sprinkler systems.

Installation

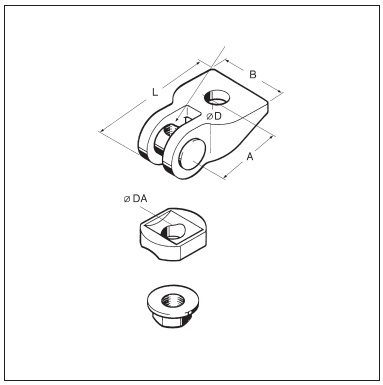
The safety strap is bent on the construction site to the form of the beam, so that it securely encompasses the edge of the beam flange.

Technical Data

Application
Type I: NB 80 - NB 100
Type II: NB 125 - NB 150
Type III: NB 200

Material: Steel strip, pre-galvanised

Type	Length [mm]	Bore [mm]	Dimensions w x th [mm]	W [kg]	Quantity [pack]	Part number
SL 1	400	11	20 x 2.5	0.16	50	**116798**
SL 2	400	13	30 x 2.5	0.23	50	**116804**
SL 3	400	17	40 x 3.0	0.36	50	**116813**



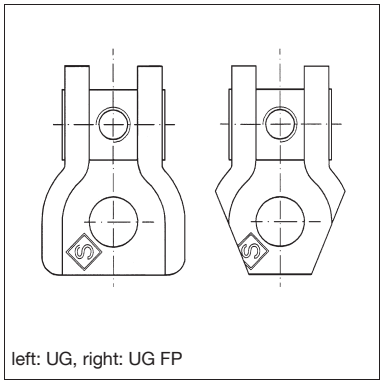
Universal Joint UG

Group: 1342

Application

Universal connection for attachment to non-horizontal components.
May be fixed directly to building surfaces, Beam Clamps, channels, etc. Typical uses would include easy on-site manufacture of various tie rod assemblies to support brackets, or reinforcement struts for sliding and fixed point applications (UG FP types are specifically designed for assembly for pipe clamp wings for fixed point constructions).

- Infinitely variable angle adjustment
- Length and height adjustment via rotation of the grub screw in the threaded pivot head
- Securely retained threaded pivot head
- Secure attachment of nut on the adapter plate.



left: UG, right: UG FP

Scope of delivery

With adapter plate and locking nut.

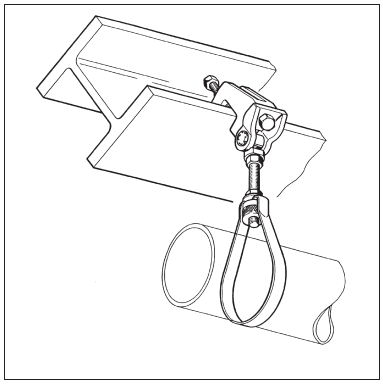
Installation

Screw the grub screw completely into the pivot head (visual control).
Fix the adjusted angle by tightening the supplied nut against the adapter plate.

Technical Data

Type	Working load [kN]	Adapter plate Ø DA [mm]	Nut
UG M8	5.8	10.5	Flange nut
UG M10	8.0	10.5	Flange nut
UG M12	13.0	16.5	Flange nut
UG M16	13.0	16.5	Hexagon nut
UG FP M12	13.0	16.5	Hexagon nut
UG FP M16	13.0	16.5	Hexagon nut

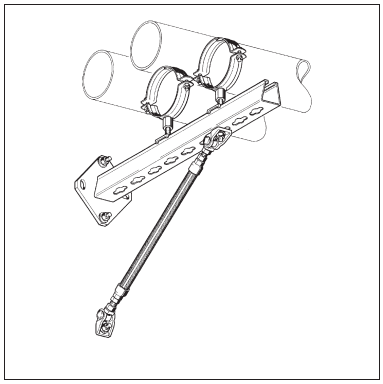
Material: Steel, electro-galvanised (versions M8 and M10)
Malleable cast iron, electro-galvanised (versions M12 and M16)



Approvals

VdS Approval G4980055 for types UG M8 to UG M16.

Type	Pivot head	A [mm]	B [mm]	Ø D [mm]	L [mm]	W [kg]	Quantity [pack]	Part number
UG M8	M 8	26	40	10.5	51	0.18	50	**198636**
UG M10	M10	26	40	10.5	51	0.12	50	**198643**
UG M12	M12	33	50	17.0	71	0.37	25	**158075**
UG M16	M16	33	50	17.0	71	0.36	25	**158084**
UG FP M12	M12	33	50	17.0	71	0.32	25	**158093**
UG FP M16	M16	33	50	17.0	71	0.31	25	**158109**



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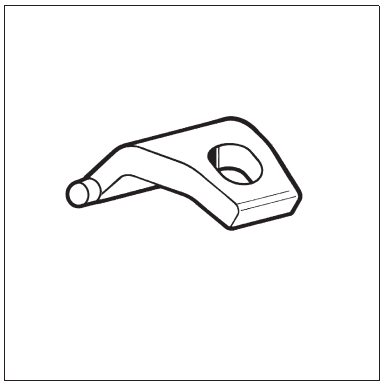
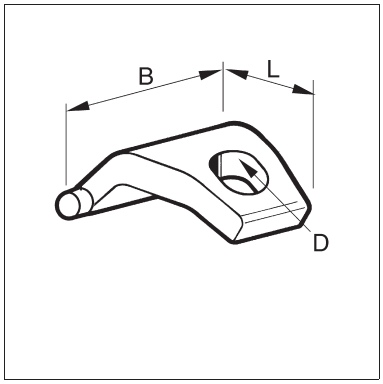
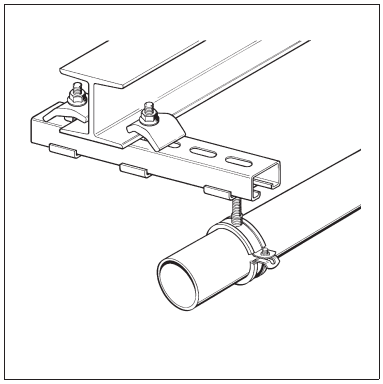
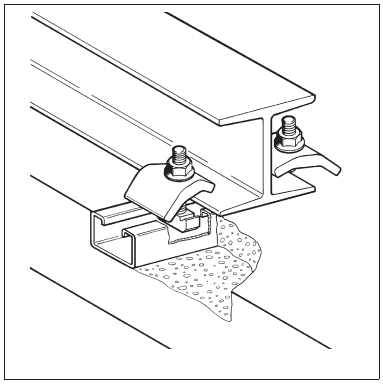








Beam Clip P

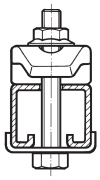
Group: 1331

Application

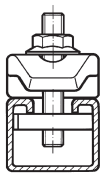
Universal clamping element for bi-lateral attachment of crossbars for pipe runs, ducts, cable lines and equipment to steel beams.
The maximum clamping range may be extended by up to 10 mm by using spacers. Any thicker spacers should be welded to the crossbar.

Installation

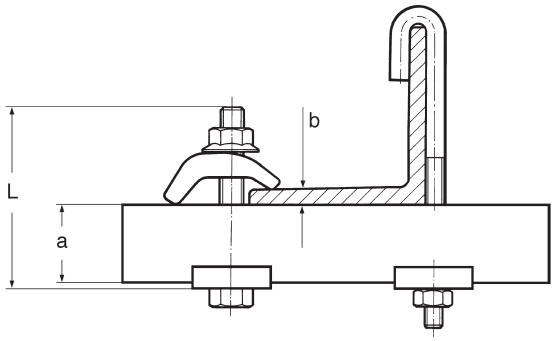
Determination of the required bolt length L_{min}:



Bolts:	Torque ± 10%
P 1: M8 or M10	50 Nm
P 2: M12	85 Nm
P 3: M16	150 Nm
P 4: M16	150 Nm



Arrangement A Pass-through bolt with holding bracket	Arrangement B Channel nut HZ
P 1: L_{min} = a + b + 37 [mm]	P 1: L_{min} = b + 40 [mm]
P 2: L_{min} = a + b + 43 [mm]	P 2: L_{min} = b + 45 [mm]
P 3: L_{min} = a + b + 48 [mm]	P 3: L_{min} = b + 50 [mm]
P 4: L_{min} = a + b + 55 [mm]	P 4: L_{min} = b + 60 [mm]



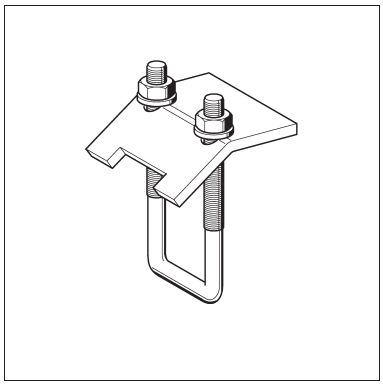
Technical Data

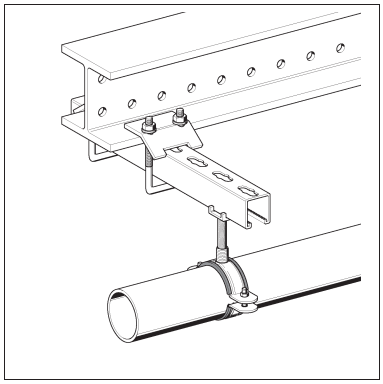
Type	Working load
P 1	4.0 kN
P 2	5.0 kN
P 3	7.0 kN
P 4	8.0 kN

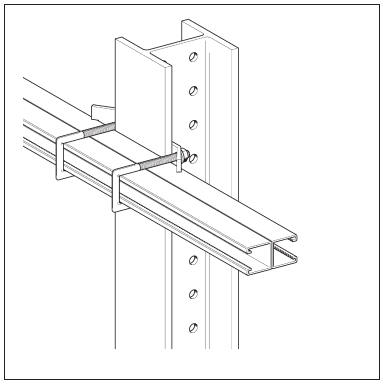
Note: For vertical installation please contact Sikla Technical Department

Material: Cast iron or steel, electro-galvanised

Type	Size range [mm]	Ø D [mm]	L [mm]	B [mm]	W [kg]	Quantity [pack]	Part number
P 1	1 - 23	11	50	36	0.10	50	**116196**
P 2	1 - 33	13	62	50	0.24	25	**116202**
P 3	1 - 33	17	69	50	0.26	25	**116248**
P 4	4 - 40	17	75	54	0.30	25	**116257**







U-Holder SB 41

Group: 1331

Application
Clamping element for bi-lateral attachment of crossbars to steel beams, independent from the channel's opening.

Installation
To be used in pairs.
Length calculation = Beam/Girder flange thickness + min. 2 x 50 mm overhang

Technical Data

Type	Max. perm. load tension	Tightening torque
M8	3.5 kN per U-Holder	20 Nm
M10	5.0 kN per U-Holder	30 Nm

Material: Steel, electro-galvanised

Type	For channel height [mm]	Max. flange thickness [mm]	Thread	W [kg]	Quantity [pack]	Part number
41 - M8	20 - 62	16	M8	0.31	20	**192566**
41 - M10	20 - 62	16	M10	0.41	20	**183620**
41 D - M10	80 - 124	16	M10	0.48	20	**191657**

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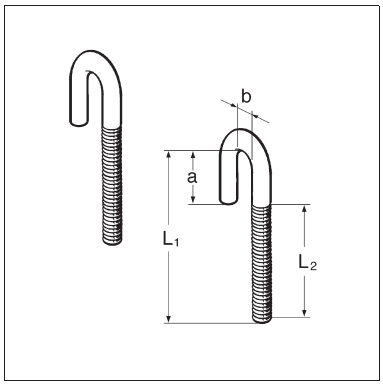


Threaded Hook GH

Group: 1367

Application

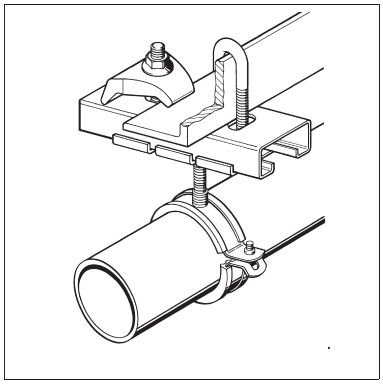
Used in combination with profiled beams as a holder for mounting crossbars composed of Sikla Channels or other standard profiles.

Technical Data

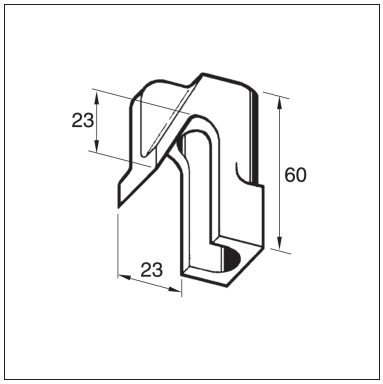
Load values:

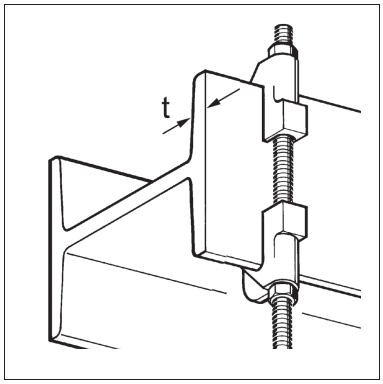
Type	Working load
M8	2.5 kN
M10	4.0 kN

Material: Steel, electro-galvanised



Type	L_1 [mm]	L_2 [mm]	a [mm]	b [mm]	W [kg]	Quantity [pack]	Part number
M8 x 75	75	50	15	12	0.03	100	**101587**
M8 x 115	115	70	25	12	0.05	100	**101596**
M10 x 150	150	90	30	15	0.10	50	**101602**





Hook Sleeve SP

Group: 1331

Application

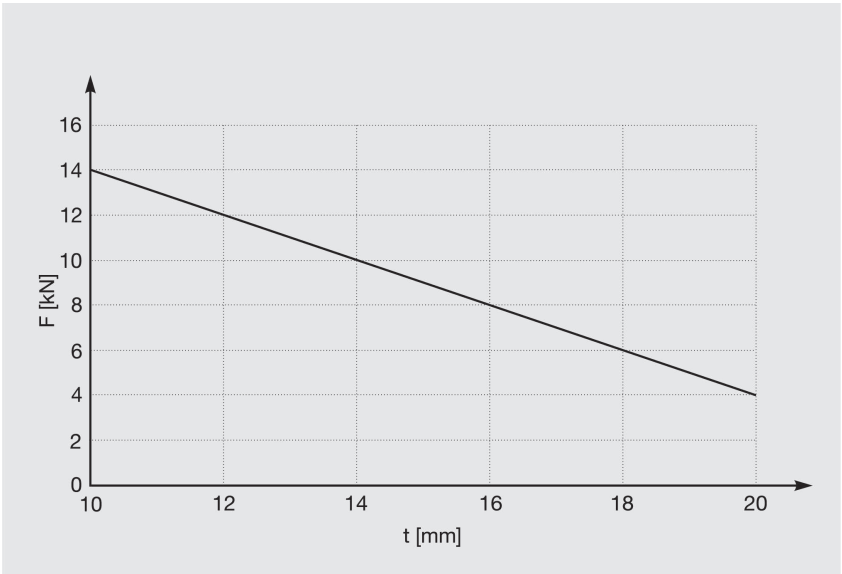
Used in combination with profiled beams as a holder for single-point mountings or for mounting crossbars.

Installation

Equipped with a (Ø 13 mm) boring for use with M8 to M12 grub screws. When using an M8 grub screw, we recommend the use of a flange nut. First tighten sturdy, after that tighten up with max 1 1/2 turns.

Technical Data

Load values



Material: Malleable cast iron, electro-galvanised

Type	W [kg]	Quantity [pack]	Part number
Hook Sleeve	0.12	50	**106777**

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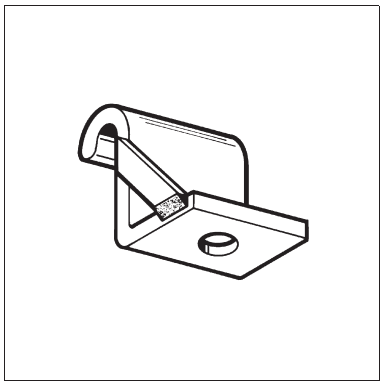
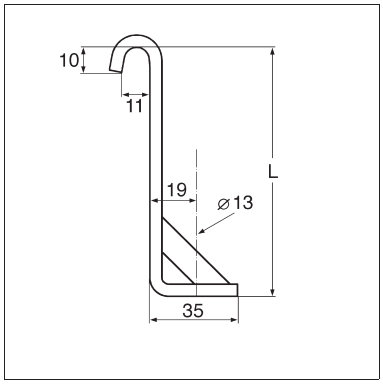
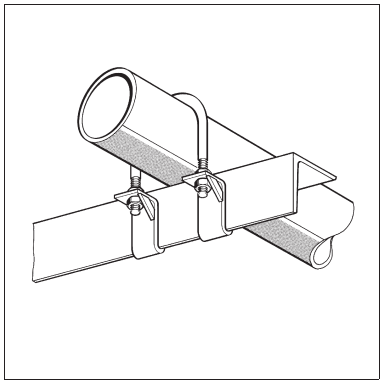






Hook Bracket SPK

Group: 1366

Application

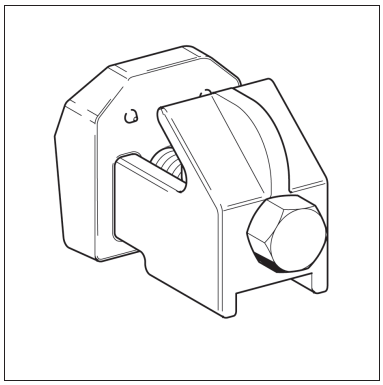
In combination with U bolts up to size M12, the Hook Bracket may be used for directly installing horizontal or vertical pipe strands to U or angle beams.

Technical Data

Type	Working load
Hook Bracket	6.0 kN
with M8	3.0 kN
with M10	5.0 kN
with M12	6.0 kN

Material: Steel, electro-galvanised

Type	L [mm]	b x s [mm]	W [kg]	Quantity [pack]	Part number
SPK 150	150	35 x 5	0.29	10	**116017**



Bulb Flat Steel Beam Clamp

Group: 1337

Application

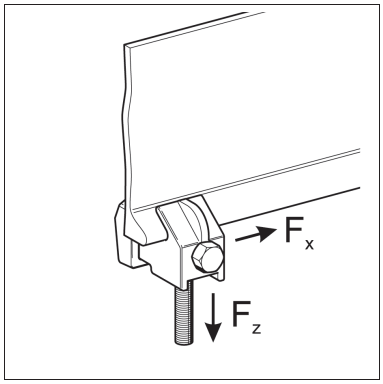
Solid connection element to fix pipework, electrical containment services to flat-steel bulk profiles.
May also be used for assemblies after the welding process or repair works to the steel profile. Possible to use as a single fixing or to assemble cross beams for multiple connections. No damage of the coating during installation.

Scope of delivery

Pre-assembled unit with hexagon bolt.

Installation

Tighten the bolt with max. 40 Nm torque. Connections made to M10 female thread.

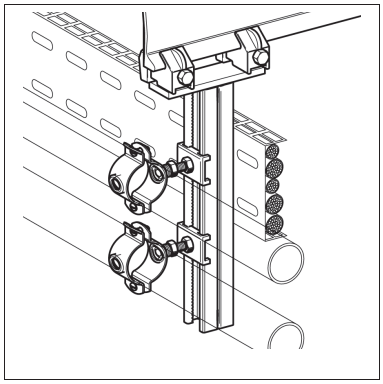


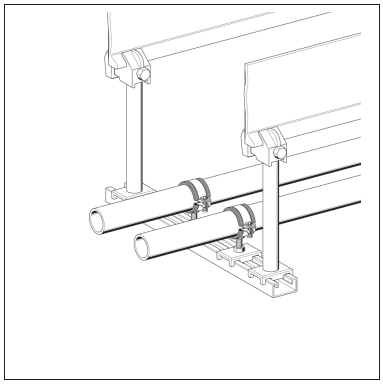
Technical Data

For bulb profiles from 80 to 120 mm
F_z adm. = 4.0 kN
F_x adm. = 2.0 kN

Material:
Main material: Malleable iron
Bolt: 8.8, galvanised

Type	Connection	W [kg]	Quantity [pack]	Part number
WFK	M10	0.41	20	**198056**





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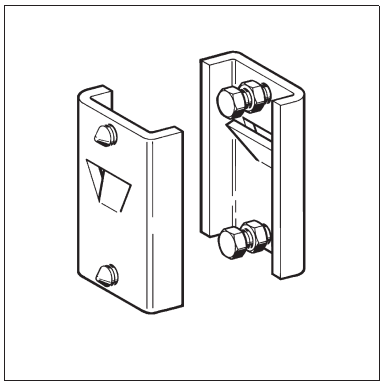
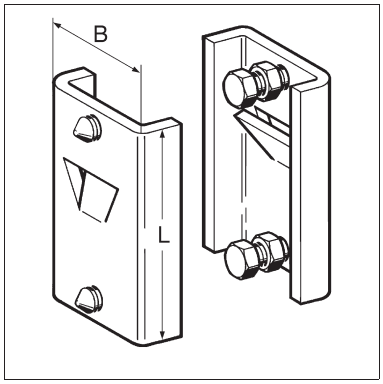
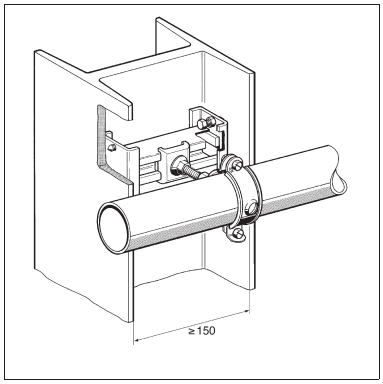






Clamping End SKL

Group: 1350

Application
Mounting element to be fixed within the flanges of I- and U-shaped beams. The systems (such as pipes, etc.) supported this way may run parallel or at right angles to the direction of the I or U beam.

Also suitable as support for crossbars between two vertically adverse arranged profiles.

Scope of delivery
Pre-assembled

Installation
The tightening moment of the clamping bolts must be between 1 (minimum) and 1 1/2 (maximum) turns; then tighten locking nuts.

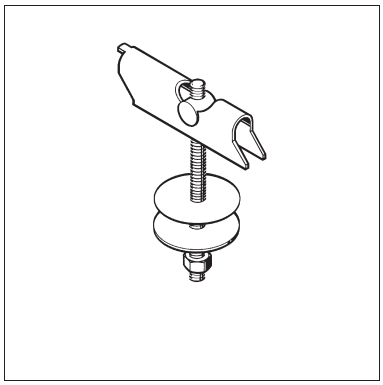
Note:
The length of the channel to be cut : inside diameter of beam less 25 mm

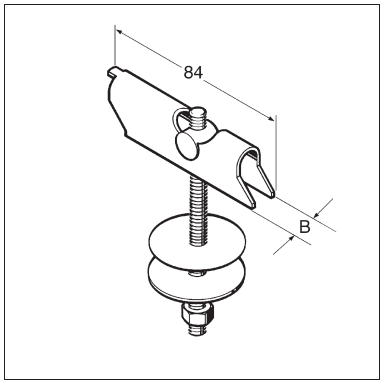
Technical Data
Permissible load per set: Crossbar support: (2 sets) 5.0 kN/crossbar
Single attachment: (1 set) 2.5 kN

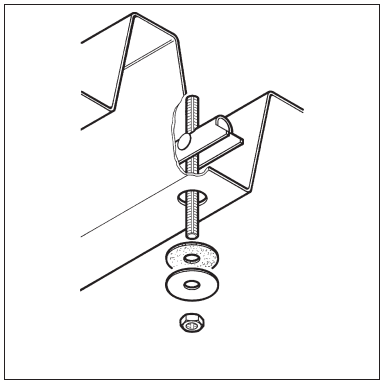
The maximal torsional moment of the channel is to be taken into consideration.

Material: Cold-worked steel, electro-galvanised

Type	For Channel size	Minimum beam type [mm]	L [mm]	B [mm]	W [kg]	Pack. [Set]	Part number
SKL	41/41/2.5 u. 41/45/2.5	IP 140. U 200	100	62	0.93	5	**145671**







Toggle Stud KD

Group: 1427

Application

For fixing pipes up to a nominal diameter of NB50 directly to ceilings made of trapezoidal corrugated sheet according to VdS/FM standards or as single point mounting solution.

In cases where VdS or FM regulations are not applicable or in cases of ventilation systems, larger loads may be fixed via crossbars and by an appropriate number of toggle studs.
By turning the threaded rod, it is possible to make height adjustments. This threaded rod is secured and cannot be unscrewed completely.
The Hypalon washer is weather-resistant and thus a crucial safety factor when sealing the mounting bore.

Installation

For the installation hole in the trapezoidal sheet the Hole Saw LS is to be used:
Type M8 = LS 22, type TD10 = LS 25.

Technical Data

Nominal load:	0.8 kN for each fixing point
Note:	Permissible carrying capacity of the trapezoidal sheet has to be considered.
Material:	Steel, electro-galvanised, gasket elastomer

Approvals

Types M8 for Sprinkler Systems according to Vds Standards. VdS: G4780118
Types TD 10 are approved for Sprinkler Systems by FM

Type	Sprinkler application	Length of grub screw [mm]	Fitting bore [Ø mm]	B [mm]	W [kg]	Quantity [pack]	Part number
M8 x 100	VdS	100	22	14	0.11	100	**113810**
M8 x 200	VdS	200	22	14	0.14	50	**125569**
TD10 x 100	FM	100	25	16	0.13	100	**126065**
TD10 x 200	FM	200	25	16	0.18	50	**125578**

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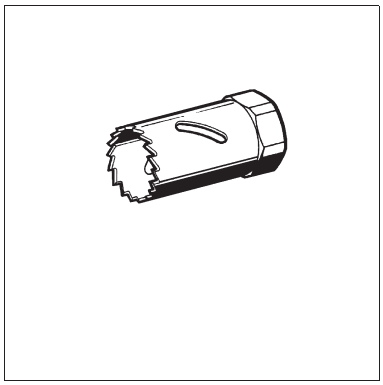


Hole Saw

Group: 8139

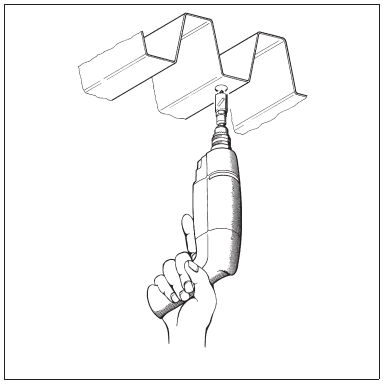
Application
Instrument for making holes for Sikla Toggle Studs.

Scope of delivery
Without Holder and Centre Drill.

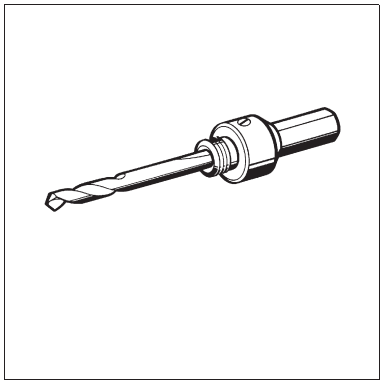
Installation
For boring purposes, screw the Hole Saw to a holder with centre drill (to be ordered separately).

Technical Data
Maximum service life may be achieved by using the Hole Saw at a speed of approx. 350 rpm.

Material: The bimetal Hole Saw has a drill bit of highly alloyed tool steel.



Type	Bore Ø [mm]	Toggle Stud application	W [kg]	Quantity [pack]	Part number
LS 22	22	M8	0.04	1	**133144**
LS 25	25	TD 10	0.05	1	**133135**



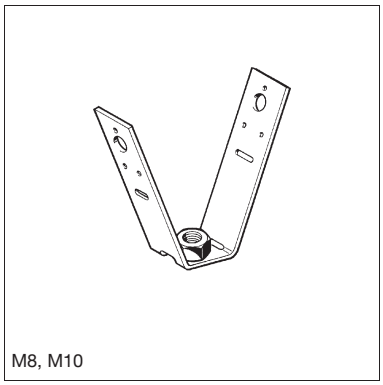
Holder with Centre Drill ZBT

Group: 8139

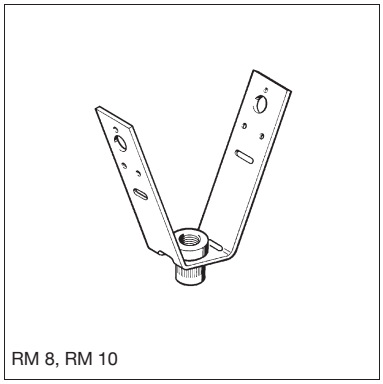
Application
Suitable for Hole Saws LS 22 and LS 25. Can be fitted into all standard drills via hexagon holder.

Technical Data
Material: Tool Steel

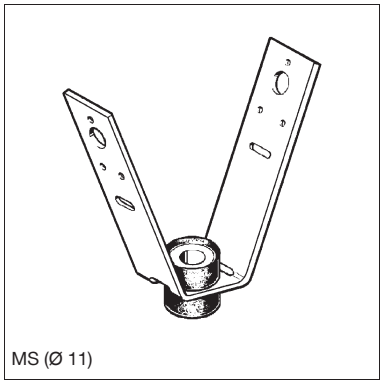
Type	W [kg]	Quantity [pack]	Part number
AS-ZB 1	0.08	1	**133126**



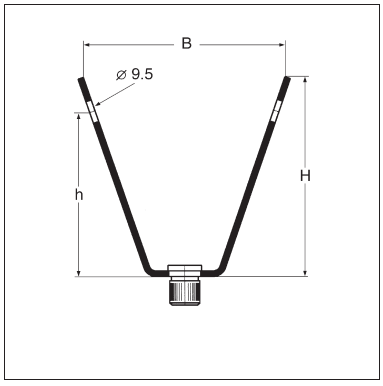
M8, M10



RM 8, RM 10



MS (Ø 11)



Roof Hanger TRH

Group: 1428

Application

Pipes up to NB 50 may be attached to trapezoidal metal sheet roofings. For devices or ducts, a load comparable to a NB 50 pipe is used for each holder for proving permissibility. Should it be necessary to fix larger loads, the respective load is to be distributed uniformly between several hangers, e.g. by way of a crossbar. The individual load for each hanger may not exceed the load exerted on a pipe of NB 50. Fixing several pipes to a crossbar is not permissible in such circumstances.

Types RM8 and RM10 provide subsequent height adjustment; their revolving knurled nut is safely retained, thus preventing any accidental unscrewing.
Type MS is equipped with a sound absorption unit
with integrated and secured distance sleeve for soundproof installation according to DIN 4109.

Scope of delivery

Completely pre-assembled (see drawings). Types M8, M10 with riveted nuts.

Installation

For drilling trapezoidal corrugated sheets, we recommend to use the Piercing Tool LOT 3; for fixing, we recommend and M8x100 (Part No. 138608) cross bolt.

Note:
Each through bolt is to be secured by means of a locking nut; the same applies to dynamic loads.
Blind steel rivets or sheet metal screws may not be used in Sprinkler Systems.

Technical Data

Working load:	0.8 kN for each fixing point (0.3 kN for Typ MS)
Note:	The carrying capacity of the trapezoidal corrugated sheet may restrict the application.
Material:	Steel strip 25 x 2.5 mm, pre-galvanised
Type M8, M10:	Riveted nut

Approvals

Type M8 for Sprinkler Systems according to VdS Standards: G4820032.
Type M10 for Sprinkler Systems according to FM ≤ 3.

Type	H [mm]	B [mm]		Connection to system	W [kg]	Quantity [pack]	Part number
M8	90	90	75	M8	0.10	100	**125693**
M10	90	90	75	M10	0.10	100	**125806**
RM 8	90	90	75	M8	0.11	100	**125675**
RM 10	90	90	75	M10	0.11	100	**125684**
MS	90	90	75	Ø 11	0.10	100	**151564**

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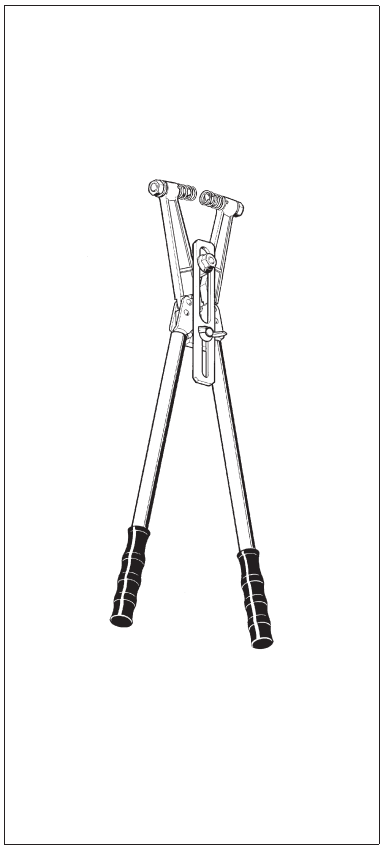


Piercing Tool LOT

Group: 8140

Application

For simultaneously punching two holes of □Ø 10.5 mm into trapezoidal corrugated roofing of a maximum thickness of 1.2 mm, providing for the subsequent mounting of a Sikla Roof Hanger.

The optimised transformation allows already with very less strength a high cutting force at the hole punches. Thus several successively piercings or piercings in thicker sheets are possible without problems.
Further advantages are:

- Continous adjustment of the cutting width for application of various profiles from 40 - 100 mm
- Continous adjustment of the height position for an exact and uniform alignment of the hole positions taken from the lower edge of the trapezoidal corrugated sheet.
- After piercing, ejector springs ensure a safe return stroke of the hole punches.

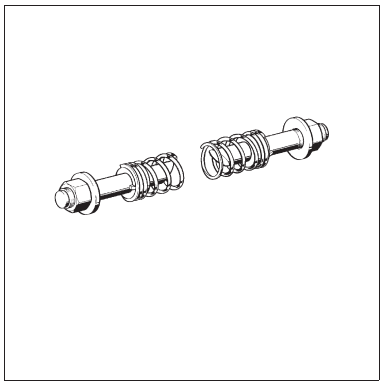
Scope of delivery

Completely with hole punches.
Hole Punches could be re-ordered or exchanged if required.

Technical Data

Total length:	710 mm
Material:	
Holders:	Steel tube, lacquered with plastic grip
Joint parts:	Steel
Hole Punch:	Steel, tempered, Ø 10,5 mm
Ejector springs:	Stainless steel

Type	W [kg]	Quantity [pack]	Part number
LOT 3	2.47	1	**171296**



Hole Punch LOT

Group: 8144

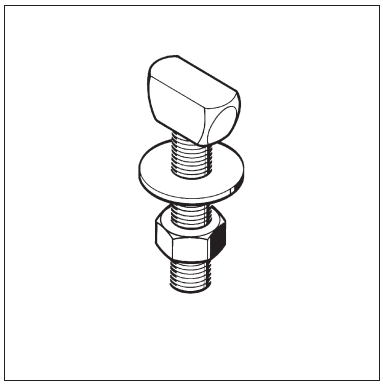
Application

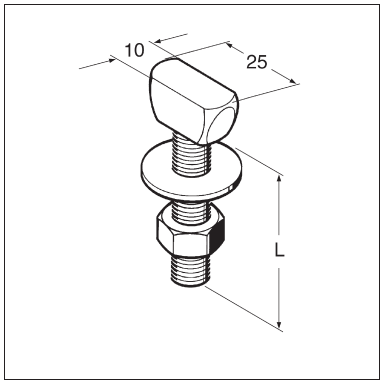
Spare part for Piercing Tool LOT 3.

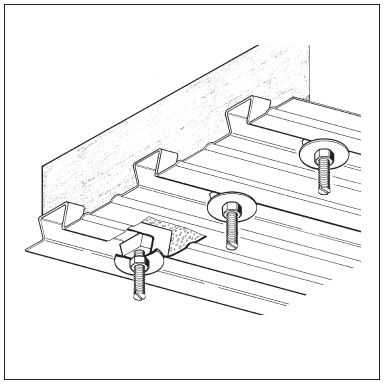
Technical Data

Material:	
Punching die:	Hardened steel, Ø 10.5 mm
Ejector springs:	Stainless steel

Type	W [kg]	Pack. [Set]	Part number
LS LOT 3	0.06	1	**159252**







Wedge Bolt KB

Group: 1312

Application
Developed for HOLORIB composite ceilings.
May be used for single or multi-point mounting solutions for crossbars or mounting plates.

Scope of delivery
Pre-assembled with washer and nut.

Technical Data
Load values of the wedge bolt M8 respectively M10:

Type of ceiling	Working load
51/150	2.20 kN

When using crossbars or mounting plates, the individual load values as indicated in the table may be multiplied on the basis of the number of wedge bolts applied. The carrying capacity of the other elements (crossbars, etc.) may restrict the application. Distance of profile beads: 150 mm

Material: Cold-worked steel, electro-galvanised

Type	L [mm]	W [kg]	Quantity [pack]	Part number
M8 x 42	46	0.06	100	**138042**
M10 x 57	65	0.09	100	**138051**

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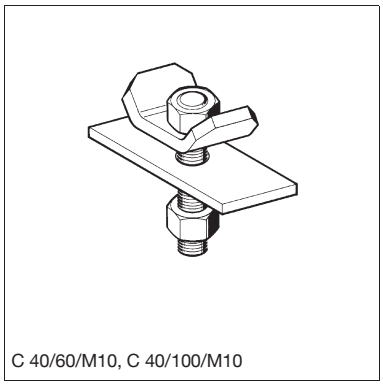
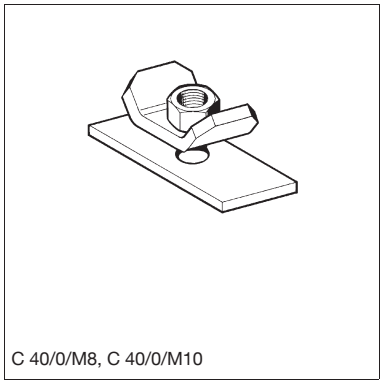
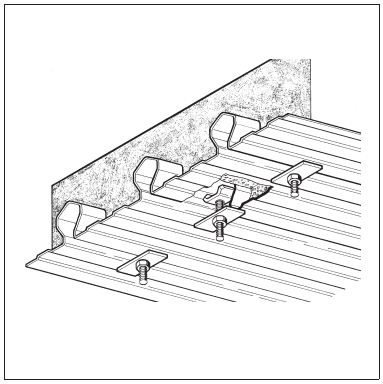


C 40/60/M10, C 40/100/M10



C 40/0/M8, C 40/0/M10



Clamp VBO C 40

Group: 1312

Application
Developed for COFRASTA 40 composite ceilings.
May be used for single or crossbar mounting solutions.

Type C40/0 is mainly used in ventilation systems. In such case, the threaded rods are to be fixed to the system on site. When mounting, make sure that the threaded rods are screwed in sufficiently and retained well, thus preventing any accidental unscrewing.

Scope of delivery
Types C 40/60/M10 and C 40/100/M10 are completely pre-assembled, the grub screw is retained and cannot fall out.
Types C 40/0/M8 and C 40/0/M10: Special washer (rectangular) is included in loose form; without grub screw. With riveted hexagon nut.

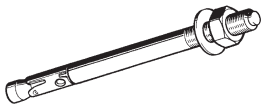
Technical Data
Max. working load: 2 kN

When using crossbars or mounting plates, the working load may be increased on the basis of the number of clamps used for the overall structure. The carrying capacity of the ceiling may restrict the application. Distance of profile beads: 150 mm

Material: Steel, electro-galvanised

Type	Available length of thread [mm]	Thread connection	W [kg]	Quantity [pack]	Part number
C 40/0/M8	variabel	M8	0.13	100	**146575**
C 40/0/M10	variabel	M10	0.14	100	**146478**
C 40/60/M10	30	M10	0.17	100	**146487**
C 40/100/M10	70	M10	0.18	100	**146496**

Bolt Anchor AN BZ plus



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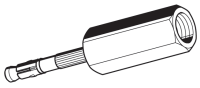
Nail Anchor AN



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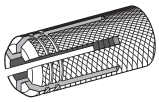
Brass Anchor ANM



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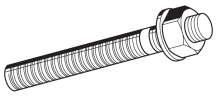
Resin Anchor Rod VMU-A



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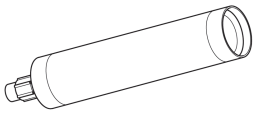
Injection System VMU - Resin



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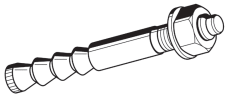
Resin Anchor Rod VMZ-A



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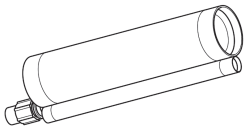
Injection System VMZ - Resin



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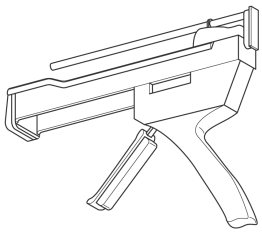
Injection System VMZ / VMU / VM-K - Accessories



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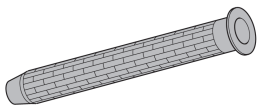
Perforated Sleeve SH



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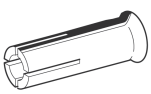
Drive Plug AN ES



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Setting Tool for Drive Plug ANT

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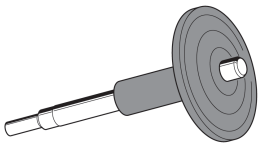
Expanding Mandrel ANT MSH



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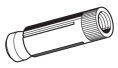
Hollow Core Anchor AN Easy



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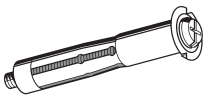
Hollow Space Anchor Metal ANC-M



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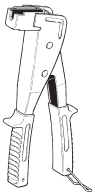
Assembly Pliers ANC-M MZ



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Screwbolt MMS-PR

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Screwbolt MMS-ST

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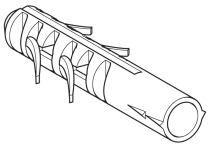
Nylon Plug ANN



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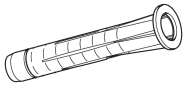
Universal Plug ANU



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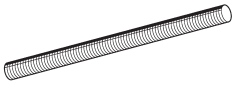
Threaded Stud GST



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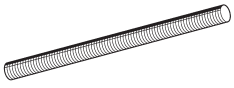
Threaded Rod GST



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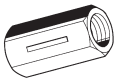
Rod Coupling AD f/f



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Round Rod Coupling AD RD f/f

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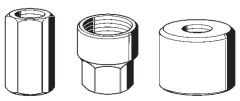
Adapter AD f/f



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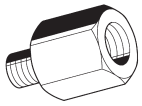
Reducer AD f/m



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Reducer AD m/f

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Hexagon Nut NT

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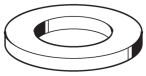
Washer US



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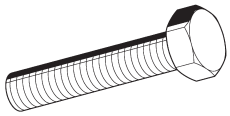
Hexagon Bolt SKT



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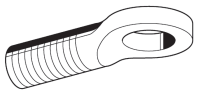
Eye Bolt SCR



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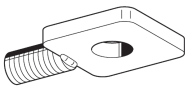
Flat Leaf Bolt SCR



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Link Eye SCB

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Threaded Tube GR

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Locking Nut NT G

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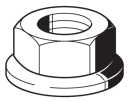
Flange Nut NT FLA



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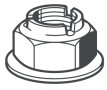
Safety Nut with flange NT SEC HCP



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Torx Flat Head Coach Screw FLAH

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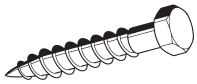
Hexagon Wood Screw SKH



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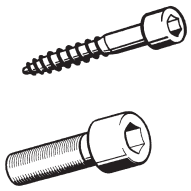
Hexagon Socket Screw SCR



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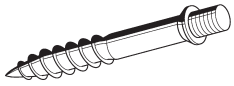
Bolt Screw BSCR with Collar



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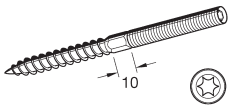
Bolt Screw BSCR without Collar



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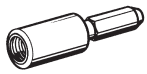
Bolt Screw Adapter ANT BIT



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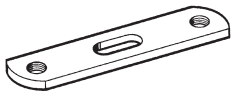
Twin Holder DHP M8



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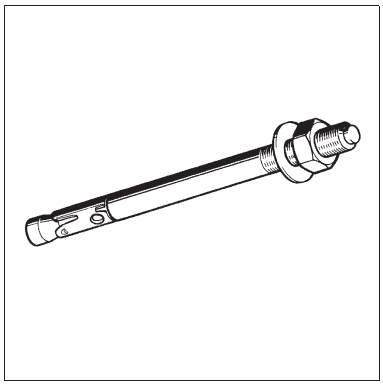

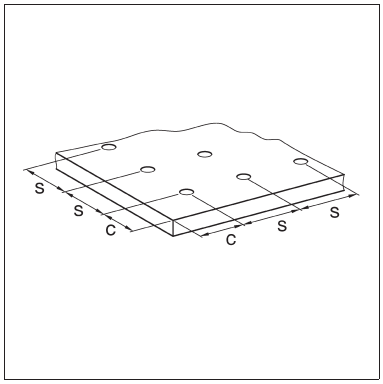

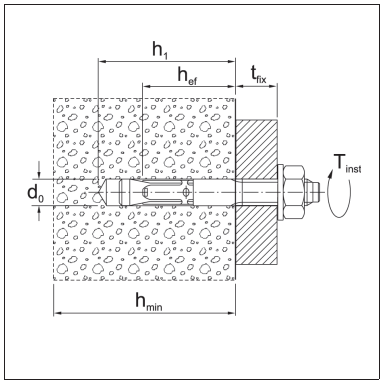

Bolt Anchor AN BZ plus

Group: 1408

Application

Anchor for push-through mounting in M&E services and plant construction in concrete tensile zones.
This anchor combines high permissible loads with close edge and centre distances.
Suitable for anchoring in cracked and non-cracked concrete - fixation of pipelines, channels, brackets, etc. in closed rooms - except for damp locations.

- No special drill required. Bore dia = thread size
- Simple and quick mounting due to its push-through concept
- Drive-in hammer zone for preventing any thread damage

Scope of delivery

Supplied with washer and hexagon nut.

Installation

1. Drill bore hole according to the minimum bore hole depth perpendicularly to the surface.
2. Remove dirt from hole.
3. Drive the anchor into concrete up to its embedment mark.
4. After tightening the anchor with a torque wrench T_{inst} (see torque indicated in the following tab), it may immediately be submitted to loading.

   Note the instructions in the mounting manual!

Technical Data

Type	M8	M10	M12	M16
Perm. load [1] tension C20/25 [2] [kN]	2.4	4.3	7.6	11.9
C25/30 [2] [kN]	2.6	4.7	8.3	13.1
C30/37 [2] [kN]	2.9	5.2	9.3	14.5
C40/50 [2] [kN]	3.4	6.0	10.8	16.8
C50/60 [2] [kN]	3.7	6.6	11.8	18.5
Perm. load [1] oblique ≥ C20/25 [2] [kN]	8.6 (5.0)[3]	12.6 (6.5)[3]	17.1 (8.5)[3]	26.9 (23.6)[3]
Perm. bending moment [1] [Nm]	13.1	26.9 (25.7)[3]	46.9 (44.6)[3]	119.4 (99.,9)[3]
Min. thickness of component h_{min} ≥ [mm]	100	120	140	170
(3 h_{ef}) Charact. centre distance s_{cr} [mm]	138	180	210	255
(1.5 h_{ef}) Charact. edge distance c_{cr} [mm]	69	90	105	127.5
Min. centre distance s at/edge distance c ≥ [mm]	40/70	45/70	60/100	60/100
Min. edge distance c at/centre distance s ≥ [mm]	40/80	45/90	60/140	60/180
Effective anchoring depth h_{ef} [mm]	46 (35)[3]	60 (42)[3]	70 (50)[3]	85 (64)[3]
Nominal diameter of drill d_0 [mm]	8	10	12	16
Depth of bore hole h_1 ≥ [mm]	60 (55)[3]	75 (65)[3]	90 (75)[3]	110 (95)[3]
Anchoring torque T_{inst} [Nm]	20 (15)[3]	25 (30)[3]	45 (50)[4]	90 (100)[3]
Perm. load [4] for fire exposure				
Perm. load R30 perm. F [kN]	1.3	2.2	3.2	6.0
Perm. load R60 perm. F [kN]	1.1	1.8	2.8	5.2
Perm. load R90 perm. F [kN]	0.8	1.4	2.4	4.4
Perm. load R120 perm. F [kN]	0.7	1.2	2.2	4.0

[1] Loads for single anchors without influence of edge distances
[2] Cracked concrete (option 1)
[3] Value in brackets applies for the types marked *
[4] Edge/Centre distances in case of fire - respective approval is to be respected

The safety factor according to ETAG is included already. Valid are the values of the mentioned approval which could be seen under www.sikla.de/service/downloads.

Material: Steel, galvanised

Approvals
Sikla approval ETA-10/0259
FM-approval for M10, M12, M16
VdS-conform for all sizes
Shock approval of the Federal Office for Civil Defence, Bern (Switzerland)

The types marked * are not part of the approvals.

Type	Thread connection	t_{fix} = Max. effective length [mm]	Total length [mm]	W [kg]	Quantity [pack]	Part number
8/5/50 *	M8	5	50	0.02	100	**110542**
8/10/75	M8	10	75	0.03	100	**166526**
8/30/95	M8	30	95	0.04	100	**166535**
8/50/115	M8	50	115	0.04	100	**110453**
8/100/165	M8	100	165	0.06	50	**110543**
10/10/60 *	M10	10	60	0.05	50	**110544**
10/10/90	M10	10	90	0.06	50	**166544**
10/20/100	M10	20	100	0.06	50	**110545**
10/30/110	M10	30	110	0.07	50	**166553**
10/50/130	M10	50	130	0.08	50	**166562**
10/75/155	M10	75	155	0.09	50	**110546**
10/100/180	M10	100	180	0.05	50	**110454**
12/5/75 *	M12	5	75	0.08	25	**110547**
12/15/110	M12	15	110	0.10	25	**166571**
12/30/125	M12	30	125	0.11	25	**166580**
12/50/145	M12	50	145	0.12	25	**166599**
12/65/160	M12	65	160	0.14	25	**110548**
12/85/180	M12	85	180	0.15	25	**110549**
12/105/200	M12	105	200	0.18	25	**166605**
12/160/255	M12	160	255	0.23	20	**166614**
16/5/90 *	M16	5	90	0.16	20	**110550**
16/25/145	M16	25	145	0.23	20	**166623**
16/50/170	M16	50	170	0.26	20	**166632**
16/100/220	M16	100	220	0.35	10	**166641**

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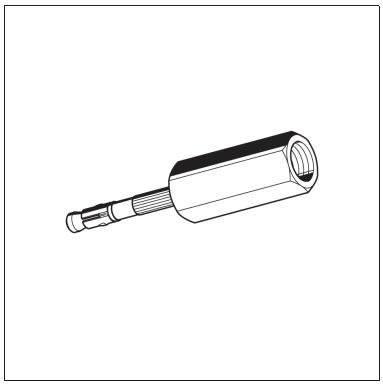
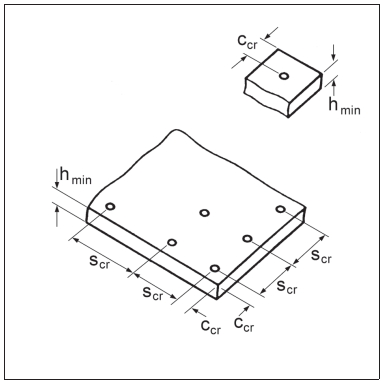
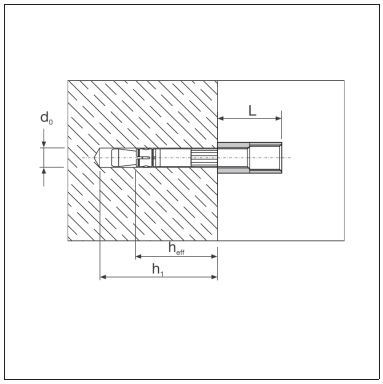






Nail Anchor AN

Group: 1406

Application

Suitable for the quick and easy mounting of components to a concrete soffit or shear wall. The internal dual thread M8/M10 allows for a direct easy connection with the Nail Anchor (e.g. M&E service supports).
The reduced drilling depth of 35 mm and the bore dia. of 6 mm minimise the risk of hitting a rebar during installation and reduces the overall cost of drilling.

Installation

Fast and simple setting of the Nail Anchor AN N M8/M10:

1. Drilling
2. Cleaning of bore hole
3. Hammer in - ready!

Technical Data

adm. load in the tensile zone [kN] for anchorage in concrete accord. to approval ≥ C20/25	2.14
Centre distance s_{cr} ≥ [mm]	200
Edge distance c_{cr} ≥ [mm]	100
min. thickness of concrete slab h_{min} [mm]	80
Drill hole dia. d_o [mm]	6
Depth of drill hole h_1 ≥ [mm]	35
Effective anchorage depth h_{ef} ≥ [mm]	25
Length L [mm]	25
Thread	M8/M10
adm. load for fire exposure	
30 min. $N_{(30)}$ [kN]	0.6
60 min. $N_{(60)}$ [kN]	0.6
90 min $N_{(90)}$ [kN]	0.6
120 min. $N_{(120)}$ [kN]	0.5
R 30 bis R120	
Centre distance s_{cr} ≥ [mm]	100
Edge distance c_{cr} ≥ [mm]	50

Valid are the values of the mentioned approval which can be seen on our website www.sikla.com/service/downloads.

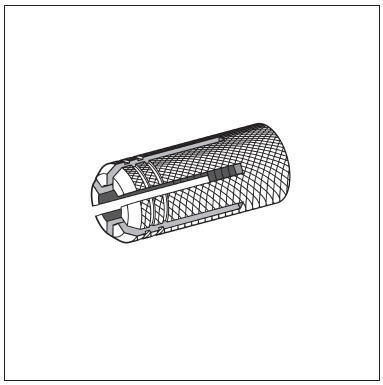
Material: Steel, zinc-plated

Approvals

Sikla approval ETA-13/0048
For the multiple use for non-structural applications in concrete (min. C12/15 and max. C50/60). Fire protection testing, VdS-conform

ETA-13/0048

Type	Length of dowel [mm]	Max. eff. length d_a [mm]	W [kg]	Quantity [pack]	Part number
AN N M8/M10	58	M8 = 7 / M10 = 10	0.03	100	**112152**



Brass Anchor ANM

Group: 1403

Application

Brass Anchors with metric thread which have a gentle cone and a milled surface. They guarantee high holding forces, are safe against rotation and are anti-skidding. No need of special drills. Suitable for concrete, solid brick, natural stones, clinker brick, sand-lime bricks, solid wood and laminated timber. For fixing of channels, brackets, pipelines etc. Not suitable for humidors.

Installation

Put the anchor flush to the anchoring base, i.e. under plaster and insulating layers. After tapping the anchor in, a special surface structure prevents rotation in the drill hole. The brass expansion anchor is suitable for processing with metric bolts, which spread the anchor while tightening.

Technical Data

Type	M6	M8	M10	M12	M16
Max. recommended load (tensile load, lateral load, diagonal load) in non cracked concrete ≥ B25 [kN]	0,85	1,50	2,50	3,50	3,90
Max. recommended load (tensile load, lateral load, diagonal load) in solid bricks≥ 15 [kN]	0,70	1,20	1,60	2,00	3,25
Anchor depth h_v ≤ [mm]	22	27	32	38	45
Drill hole dia. do [mm]	8	10	12	15	22

Approvals

None

These datas have been measured in the test laboratory and are non-binding manufacturer's recommendations.

Type	Length [mm]	Maxi screw-in depth [mm]	W [kg]	Quantity [pack]	Part number
M8	27.5	18	0.01	100	**402420**
M10	32	22	0.01	100	**402421**
M12	38	21	0.02	50	**402422**
M16	45	25	0.05	25	**402423**

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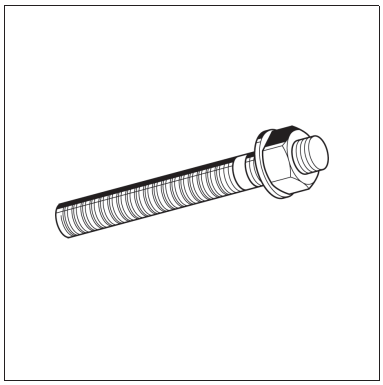


Resin Anchor Rod VMU-A

Group: 1409

Application

Anchor Rod for put-before mounting to be used with Injection System VMU. For anchoring in concrete tensile pressure zones or in brickwork. Suitable for attaching pipelines, channels, brackets, etc. in closed rooms - except for damp locations (stainless steel version available on request).

- No special drill required
- Heavy loads
- Small edge and centre distance

Scope of delivery

Pre-assembled with washer and hexagon nut.

Installation

1. Drill hole according to min. setting depth vertically to the surface
2. Careful cleaning of drill hole with Steel brush and Blow-Out Pump
3. Screw Mixing Nozzle onto the cartridge; foreshots to be removed and fill 2/3 of drill hole with resin starting from botton of the hole.
4. Drive the anchor manually into plastered borehole up to its embedment mark
5. When reaching the embedment mark, plaster must be apparent.
6. Respect hardening time, when tighten the anchor with instructed torque

Technical Data

Detailed assembly instruction is attached to the product.

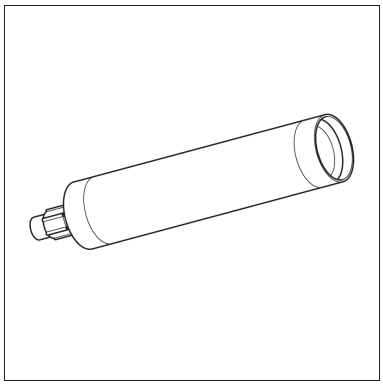
Material: Steel, galvanised

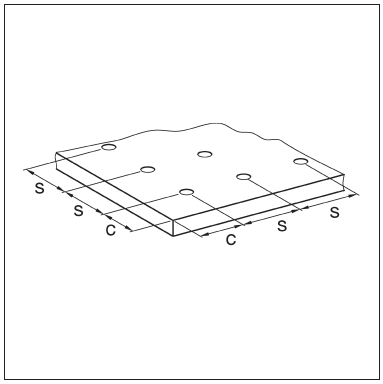
Approvals

Sikla Approval ETA-10/0261

Europäische Technische Zulassung - Option X für gerissenen Beton
ETA-10/0261

Type	Total length [mm]	t_{fix} = Max. effective length [mm]	W [kg]	Quantity [pack]	Part number
VMU-A 8-20/110	110	20	0.05	10	**110444**
VMU-A 8-55/145	145	55	0.06	10	**110445**
VMU-A 10-30/130	130	30	0.09	10	**110447**
VMU-A 10-50/150	150	50	0.10	10	**110448**
VMU-A 12-15/120	120	15	0.14	10	**110449**
VMU-A 12-50/155	155	50	0.14	10	**110450**
VMU-A 16-15/160	160	15	0.27	10	**110451**





Injection System VMU - Resin

Group: 1409

Application

The Sikla Injection System VMU is a chemical fastening system for non-cracked concrete, as well as solid and perforated brick. It consists of styrene-free vinylester resin plus an attached hardening agent. To be used with a Resin Anchor Rod VMU-A. By means of the dispenser gun the components are injected through the mixer nozzle into the drill hole or with perforated brick into the perforated sleeve. The injection adhesive cures and gives a secure fastening to the base material.

Scope of delivery

One static mixer ATN VM-X comes with each cartridge.

Installation

1. Drill hole and clean with steel brush or blow-out pump.
   For several drills, first prepare the drill holes to avoid interruptions while injecting the mortar.
2. Inject the adhesive.
3. Immediately insert (screw in with spiral rotation) the Resin Anchor Rod VMU-A

Opened cartridges can be re-used with a new mixer nozzle.

Technical Data

Assembly data solid/ perforated brick:

Anchor size	M8	M10	M12
Minimum thickness of concrete slab h_{min} ≥ [mm]	110	110	110
Centre distance (anchor group) a ≥ [mm] [2]	100 (200) [3]	100 (200) [3]	100 (200) [3]
Min. centre distance min a [mm]	50 [4]	50 [4]	50 [4]
Min. distance (single anchor) [mm]	250	250	250
Edge distance a_r ≥ [mm]	200 (250) [5]	200 (250) [5]	200 (250) [5]
Edge distance for special conditions a_r [mm]	50(60) [5]	50(60) [5]	50(60) [5]
Effective anchorage depth h_{ef} [mm]	80	90	93
Drill hole diameter d_0 = [mm]	10 (14) [6]	12 (16) [6]	14
Depth of drill hole h_0 = [mm]	85 (105) [6]	95 (105) [6]	98
Installation torque T_{inst} = [Nm] [7]	8	8	8

Extract from permissible service conditions of ETA 10/0261 (Resin Anchor Rod VMU-A) [1] for non-cracked concrete:

Anchor size	M8	M10	M12	M16
Approved loads, tension C20/25 [kN]	7.6	11.9	16.7	23.8
Approved loads, tension C25/30 [kN]	8.1	12.6	17.7	25.2
Approved loads, tension C30/37 [kN]	8.5	13.3	18.7	26.7
Approved loads, tension C40/50 [kN]	8.6	13.8	20.0	29.3
Approved loads, tension C50/60 [kN]	8.6	13.8	20.0	31.0
Approved loads, shear appr. V C20/25 (steel 5.8) [kN]	5.1	8.6	12.0	22.3
Approved bending moment appr. M (steel 5.8) [Nm]	10.9	21.1	37.1	94.9
Minimum thickness of concrete slab h_{min} ≥ [mm]	100	130	160	200
Character. spacing $S_{cr,N}$ [mm]	160	180	220	250
Character. edge distance $C_{cr,N}$ [mm]	80	90	110	125
min. centre distance s at/edge distance c ≥ [mm]	40	45	55	65
min. edge distance c at/centre distance s ≥ [mm]	40	45	55	65
Effective anchorage depth h_{ef} [mm]	80	90	110	125
Drill hole diameter d_0 = [mm]	10	12	14	18
Depth of drill hole h_0 = [mm]	80	90	110	125
Installation torque T_{inst} = [Nm]	10	20	40	60
Loads under fire exposure				
Approved load R 30 appr. F [kN]	1.9	4.5	6.0	11.0
Approved load R 60 appr. F [kN]	0.9	2.1	3.0	6.6
Approved load R 90 appr. F [kN]	0.6	1.4	2.0	4.9
Approved load R 120 appr. F [kN]	0.4	1.0	1.5	4.0

Recommended load solid brick for tension, radial load and shear load (Resin Anchor Rod VMU-A) [1] :

Anchor size	M8	M10	M12
Solid brick Mz 12 [kN]	1.7	1.7	1.7
Sand-lime brick KS 12 [kN]	1.7	1.7	1.7
Appoved bending moments appr. M (steel 5.8) [Nm]	11	21	37

Recommended loads perforated brick for tension, radial and shear load (Resin Anchor Rod VMU-A with perforated sleeve) [1] :

	Rotation drilling	Rotating rock drilling
Anchor size	M8 / M10	M8 / M10
Vertically perforated brick HLz 4 [kN]	0.6	0.3
Vertically perforated brick HLz 6 [kN]	0.8	0.4
Vertically perforated brick HLz 12 [kN]	1.0	0.8
Perforated sand-lime brick KSL 4 [kN][8)]	0.6	0.4
Perforated sand-lime brick KSL 6 [kN][8)]	0.8	0.6
Perforated sand-lime brick KSL 12 [kN][8)]	1.4	0.8
Hollow brick made of lightweight concrete Hbl 2 [kN]	0.5	0.3
Hollow brick made of lightweight concrete Hbl 4 [kN]	0.8	0.6
Hollow brick made of concrete Hbn 4 [kN]	0.8	0.6
Approved bending moment appr. M (steel 5.8) [Nm]	11 / 21	11 / 21

max. load/single brick	≤ 3 DF	4 bis 10 DF	≥ 10 DF
without extra load [kN]	1.0	1.4	2.0
with extra load [kN]	1.4	1.7	2.5

Loads under fire exposure	Vertically perforated brick HLZ 12 and perforated sand-lime brick KSL 12	Solid brick Mz 12 and sand-lime brick KS 12
Anchor size	M8 / M10	M8 / M10 / M12
Approved load R 30 appr. F [kN]	0.75 / 0.70	0.75 / 0.70 / 0.75
Approved load R 60 appr. F [kN]	0.25 / 0.25	0.25 / 0.25 / 0.48
Approved load R 90 appr. F [kN]	0.09 / 0.10	0.09 / 0.10 / 0.11

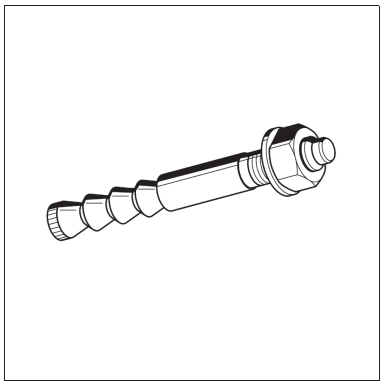
1) Approved loads for single anchor without influence of spacing and edge distance for long term temperature of +50°C/max. short term temperature of +80°C
2) For anchor pairs and pairs of 4, spacings a are allowed to fall below to the minimum value, if the approved load is attenuated. This doesn't apply or Hbl- and Hbn-masonry.
3) Value in brackets applies for Hbl- and Hbn-masonry
4) applies not for Hbl- and Hbn-masonry
5) Value in brackets applies for use of solid brick
6) Value in brackets applies for use with perforated sleeve VMU-SH
7) 2 Nm for anchor plate not being adjacent to the base material
8) Outer bars ≥ 30 mm

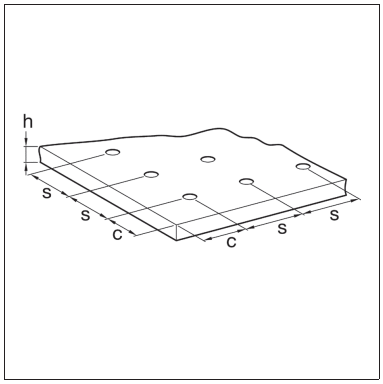
The safety coefficient according to ETAG is included. The values of the named current Approval apply - see www.sikla.com/service/downloads.

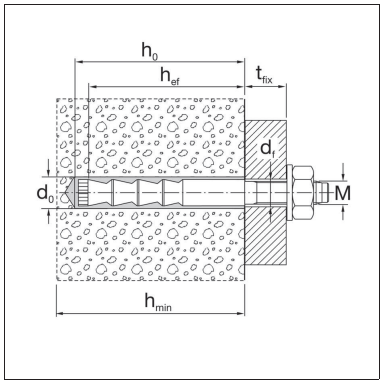
Material: Vinylester-based, styrene free

Approvals
Sikla Approval ETA-10/0261

Type	Content	W [kg]	Quantity [pack]	Part number
VMU 300	300 ml	0.53	1	**110562**
Mixing Nozzle ANT VM-X		0.01	1	**190829**







Resin Anchor Rod VMZ-A

Group: 1409

Application

Anchor Rod for push-through and put-before mounting in concrete tensile zones in M&E services and plant construction (for anchoring heavy loads). Suitable for attaching pipelines, channels, brackets, etc. in closed rooms - except for damp locations.
(Stainless steel version available on request).

- No special drill required
- Heavy loads
- Small edge and centre distance

Scope of delivery

Pre-assembled with washer and hexagon nut.

Installation

1. Drill hole according to min. setting depth vertically to the surface.
2. Careful cleaning of drill hole with Steel brush and Blow-Out Pump.
3. Screw Mixing Nozzle onto the cartridge; foreshots to be removed and fill 2/3 of drill hole with resin starting from botton of the hole.
4. Drive the anchor manually into plastered borehole up to its embedment mark.
5. When reaching the embedment mark, plaster must be apparent.
6. Respect hardening time, when tighten the anchor with instructed torque.

Detailed assembly instruction is attached to the product.

Technical Data

Type	M8	M10	M12	M16
Perm. load [1] tension C20/25 [2] [kN]	6.1	8.0	12.3	24.0
Perm. load [1] tension C25/30 [2] [kN]	6.7	8.8	13.5	26.4
C30/37 [2] [kN]	7.4	9.7	15.0	29.2
C40/50 [2] [kN]	8.5	11.2	17.3	33.8
C50/60 [2] [kN]	8.6	11.9	19.0	37.1
Perm. load [1] oblique V C20/25 [2] [kN]	8.0	12.0	19.4	36.0
≥ C30/37 [2] [kN]	8.0	12.0	19.4	36.0
Perm. bending moments M [Nm]	17.1	34.3	60	152
Min. thickness of component h_{min} ≥ [mm]	80	100	110	170
Charact. centre distance $S_{cr,N}$ [mm]	150	180	240	375
Charact. edge distance $C_{cr,N}$ [mm]	75	90	120	187,5
Min. centre distance s at/edge distance c ≥ [mm]	40/50	50/65	55/80	70/90
Min. egde distance c at/centre distance s ≥ [mm]	40/50	50/65	55/80	70/110
Effective anchoring depth h_{ef} [mm]	50	60	80	125
Nominal diameter of drill d_o [mm]	10	12	14	18
Depth of bore hole h_0 [mm]	55	65	85	133
Anchoring torque T_{inst} [Nm]	10	20	40	60

[1] Loads for single anchors without influence of edge and centre distances, if constant temperature of 50°C and und currently 80°C is not exceeded.
[2] Cracking concrete 50°C/80°C

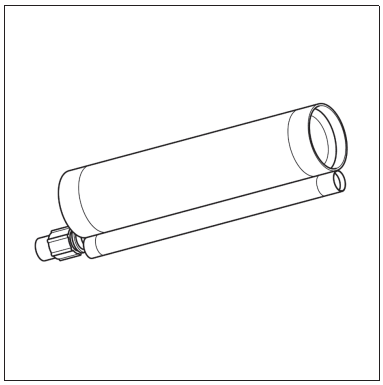
The safety factor according to ETAG is not included.
For the dimensioning, respect the data of the approval notification.

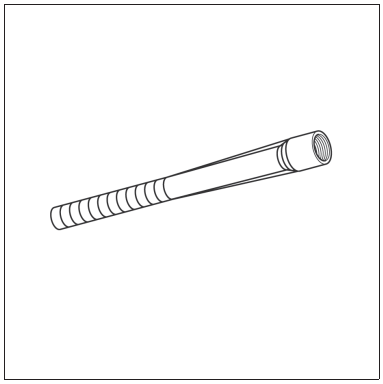
Material: Steel, galvanised

Approvals

Sikla Approval ETA 10/0260

Type	Thread connection	t_{fix} = Max. effective length [mm]	Total length [mm]	W [kg]	Quantity [pack]	Part number
VMZ-A M8-15/80	M8	15	80	0.04	10	**190712**
VMZ-A M8-30/95	M8	30	95	0.04	10	**190721**
VMZ-A M10-10/85	M10	10	85	0.06	10	**190739**
VMZ-A M10-30/105	M10	30	105	0.06	10	**190748**
VMZ-A M10-60/135	M10	60	135	0.09	10	**190757**
VMZ-A M12-10/110	M12	10	110	0.12	10	**190766**
VMZ-A M12-25/125	M12	25	125	0.13	10	**190775**
VMZ-A M12-50/150	M12	50	150	0.15	10	**190784**
VMZ-A M16-30/180	M16	30	180	0.28	10	**190793**
VMZ-A M16-60/210	M16	60	210	0.36	10	**190802**





Injection System VMZ - Resin

Group: 1409

Application
Resin for Resin Anchor Rod VMZ-A. Excellent load capacity in broken and unbroken concrete. The resin mixture hardens resulting in strong bond with the concrete and a perfectly formed expansion sleeve around the conical rod. The inner bond between the conical rod and the resin mixture is broken by applying a torque moment after the hardening process.

Scope of delivery
Per cartridge one Mixing Nozzle ANT VM-X is attached.

Installation
Resin and hardener are separated in the cartridge.
A dispensing tool is used to push both components through a mixing nozzle. In the nozzle the resin and hardener are mixed and filled into the the cleaned drill hole.

After a longer break in work, exchange of the mixing nozzle allows further use of the resin.

Reach of resin:

Type	Number of drill holes per cartridge
VMZ-A M8 ...	73
VMZ-A M10 ...	49
VMZ-A M12 ...	34
VMZ-A M16 ...	20

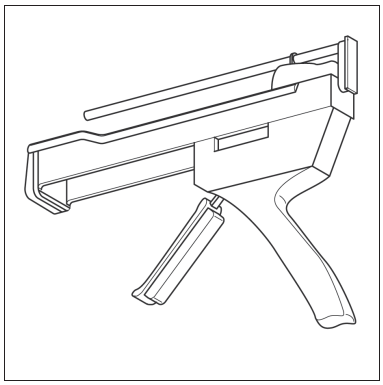
Technical Data
Detailed technical information could be seen in the data sheets of Resin Anchor Rod VMZ, as well as in the Approval ETA-10/0260.

Material: Vinylester basis, styrol-free

Approvals
Sikla Approval ETA-10/0260

Europäische Technische Zulassung - Option X für gerissenen Beton
ETA-10/0260

Type	Content	W [kg]	Quantity [pack]	Part number
VMZ 345	345 ml	0.69	1	**190811**
Mixing Nozzle ANT VM-X		0.01	1	**190829**



Injection System VMZ / VMU / VM-K - Accessories

Group: 8106

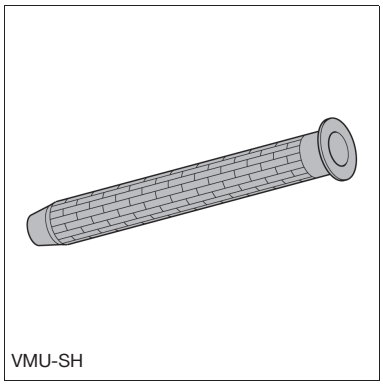
Application

Dispenser:
Professional tool to press the resin out of the cartridge.
By means of the nozzle resin and hardener are mixed and pressed out equally.
Suitable for silicone cartidges also.

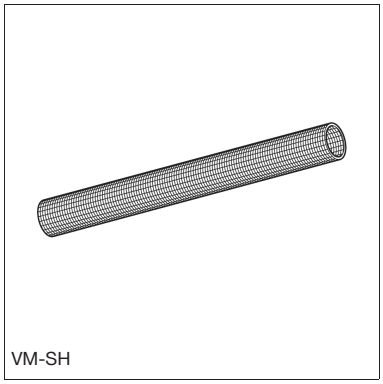
Steel brush:
To clean the drill hole.

Blow-Out pump:
To clean the drill hole.

Type	W [kg]	Quantity [pack]	Part number
Dispenser ANT VM-P 345 P	1.20	1	**190874**
Steel Brush VMZ-STB (RB 10) M8	0.02	1	**190838**
Steel brush VMZ-STB (RB 12) M10	0.02	1	**190847**
Steel brush VMZ-STB (RB 14) M12	0.03	1	**190856**
Steel brush VMZ-STB (RB 18) M16	0.04	1	**190865**
Blow-Out Pump ANT VM-AP 360	0.27	1	**190883**



VMU-SH



VM-SH

Perforated Sleeve SH

Group: 1410

Application

Perforated sleeve to be used in perforated brick in combination with Anchor Rods VMU. The version VMU-SH is equipped with a convenient arrester clack, avoiding a slipping into the drill hole.
For larger anchoring depths, the metal sleeves VM-SH are available.

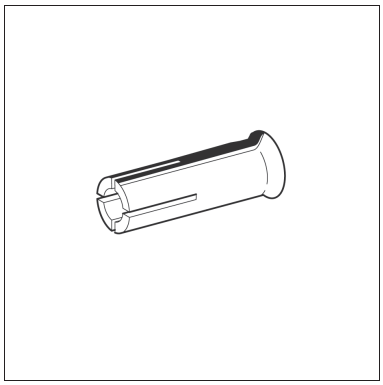
Installation

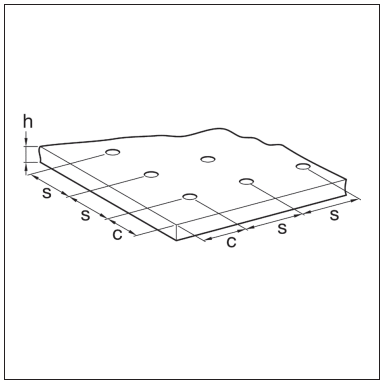
1. Drill hole and blow out/brush.
2. Flush insert Perforated Sleeve into drill hole. In case of several drill holes, prepare all dowel drills in order to avoid interruptions during injection of the adhesive. The Perforated Sleeve will be filled almost completely with the injection adhesive.
3. Insert Anchor Rod with spiral, rotating movement. The adhesive being displaced by the Anchor Rod escapes through the perforation and effectuates an adhesion of the system in the hollow spaces of the wall during hardening process. The hardened injection adhesive gives a secure fastening to the base material.

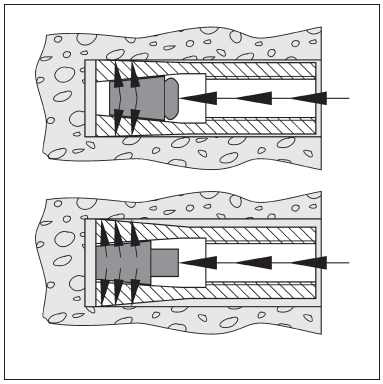
Technical Data

Material:
VMU-SH: Plastic (polypropylene)
VM-SH: Metal (material sold by the metre)

Type	Drill hole Ø x depth [mm]	Size	W [kg]	Quantity [pack]	Part number
VMU-SH M8	14 x 105	M8	0.03	10	**110504**
VMU-SH M10	16 x 105	M10	0.04	10	**110505**
VM-SH 12 x 1000	12 x ...	M8	0.06	50	**110564**
VM-SH 16 x 1000	16 x ...	M10	0.07	50	**110565**
VM-SH 22 x 1000	22 x ...	M12 - M16	0.11	25	**110566**







Drive Plug AN ES

Group: 1401

Application

Drive Plug for non-cracked concrete and multiple use in cracked concrete. Suitable for fixing pipelines, channels, etc. meeting the respective approval requirements - for damp locations and outdoor constructions the stainless steel version is required.

- No special drill required
- Setting tool for distance-controlled forced expansion
- Suitable for push-through mounting

Installation

As expansion tool use the respective expansion cone for Drive Plug. The "intelligent" expansion cone facilitates the mounting with bore dia. tolerances or varying concrete quality. By the controlled deformation of the cone during installation, the needed edge and centre distances are decreasing considerably.

Technical Data

General loads and performance data:

Anchor size	M8x30	M8x40	M10x30	M10x40	M12	M16
Nominal drill hole diameter d_0 = [mm]	10	10	12	12	15	20
Depth of drill hole h_0 = [mm]	30	40	30	40	50	65
Installation torque T_{inst} = [Nm]	8	8	15	15	35	60
Diameter of clearance hole in the connecting element $d_f \leq$ [mm]	9	9	12	12	14	18
Maximun screwing depth L_{th} [mm]	13	20	12	15	18	23
Minimum screwing depth L_{sdmin} [mm]	9	9	10	11	13	18
Minimum thickness of concrete slab h_{min} [mm]	100	100	120	120	130	160
Minimum centre distance s_{min} [mm]	60	80	100	100	120	150
Minimum edge distance c_{min} [mm]	95	95	135	135	165	200

Extract from Permissible Service Conditions of ETA-10/0258 cracked-concrete / Multiple use for nonstructural applications:

Anchor size	M8x30	M8x40	M10x30	M10x40	M12	M16
Approved loads for C20/25-C50/60 [kN]	1.7	2.0	2.0	2.0	2.4	6.3
Approved bending moments (Steel 4.6) M_{perm} [Nm]	6.4	6.4	12.8	12.8	22.2	56.9
Approved bending moments (Steel 8.8) M_{perm} [Nm]	17.1	17.1	34.3	34.3	60.0	152.0
Characteristic centre distance s_{cr} [mm]	180	210	230	170	170	400
Characteristic edge distance c_{cr} [mm]	90	105	115	85	85	200
Loads under fire exposure Steel 4.6						
Approved loads R30 perm. F [kN]	0.4	0.4	0.9	0.9	1.5	3.1
Approved loads R60 perm. F [kN]	0.3	0.3	0.8	0.8	1.3	2.4
Approved loads R90 perm. F [kN]	0.3	0.3	0.6	0.6	1.1	2.0
Approved loads R120 perm. F [kN]	0.2	0.2	0.5	0.5	0.8	1.6
Loads under fire exposure Steel ≥ 5.6						
Approved loads R30 perm. F [kN]	0.9	0.9	1.5	1.5	1.5	4.0
Approved loads R60 perm. F [kN]	0.9	0.9	1.5	1.5	1.5	4.0
Approved loads R90 perm. F [kN]	0.9	0.9	1.5	1.5	1.5	3.7
Approved loads R120 perm. F [kN]	0.4	0.4	1.0	1.0	1.2	2.4

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Extract from Permissible Service Conditions ETA-10/0257 non-cracked concrete:

Anchor size	M8x30	M8x40	M10x30	M10x40	M12	M16
Approved tensile load C20/25 (Stahl 4.6 to 8.8) [kN]	2.8	3.6	4.0	5.1	7.1	10.5
Oblique (Steel 4.6) perm. V ≥ C20/25 [kN]	3.1	3.1	3.7	4.1	7.2	13.4
Oblique (Steel 8.8) perm. V ≥ C20/25 [kN]	3.9	3.9	3.7	4.1	12.0	18.0
Bending moments (Screw 4.6) perm. M [Nm]	6.4	6.4	12.8	12.8	22.2	56.8
Bending moments (Screw 8.8) perm. M [Nm]	17.1	17.1	34.3	34.3	60.0	152.0

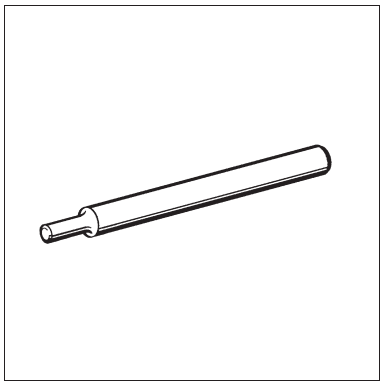
The values of the mentioned approvals in their latest version are valid - see www.sikla.de/service/downloads.

Material: Steel, electro-galvanised

Approvals
For multiple use for nonstructural applications Sikla Approval ETA-10/0258 (M8 - M12), for anchorage in non-cracked concrete Sikla Approval ETA-10/0257, Fire protection examination, VdS-conform, FM-Approval ≥ M10

ETA-10/0257 ETA-10/0258 FM APPROVED

Type	Drill hole Ø x depth [mm]	Thread Ø x length [mm]	W [kg]	Quantity [pack]	Part number
ES M8 x 30	10 x 30	M8 x 13	0.01	100	**110467**
ES M8 x 40	10 x 40	M8 x 20	0.01	100	**110468**
ES M10 x 30	12 x 30	M10 x 12	0.02	50	**110506**
ES M10 x 40	12 x 40	M10 x 15	0.02	50	**110469**
ES M12 x 50	15 x 50	M12 x 18	0.04	50	**110470**
ES M16 x 65	20 x 65	M16 x 23	0.10	25	**110471**



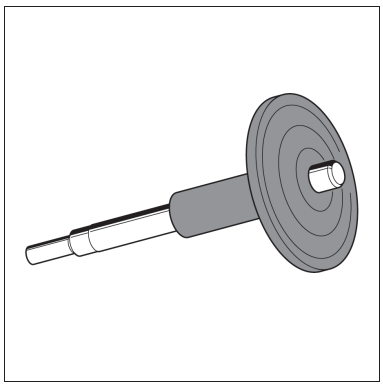
Setting Tool for Drive Plug ANT

Group: 8103

Application
Setting Tool for Drive Plug

Technical Data
Material: Steel, electro-galvanised

Type	For Drive Plug	W [kg]	Quantity [pack]	Part number
M8 x 30	M8 x 30	0.09	1	**132790**
M8 x 40	M8 x 40	0.08	1	**153308**
M10 x 30	M10 x 30	0.15	1	**110567**
M10 x 40	M10 x 40	0.15	1	**132806**
M12 x 50	M12 x 50	0.27	1	**132815**
M16 x 65	M16 x 65	0.41	1	**116992**



Expanding Mandrel ANT MSH

Group: 8103

Application
Setting tool for Drive Plug equipped with check mark. The Expanding Mandrel with hand shield is set on top of the anchor sleeve and creates a visible mark, confirming the correct assembly.

Technical Data
Material: Steel, electrogalvanised

Type	For Drive Plug	W [kg]	Quantity [pack]	Part number
M8 x 30	M8 x 30	0.38	1	**111834**
M8 x 40	M8 x 40	0.29	1	**111835**
M10 x 30	M10 x 30	0.44	1	**111836**
M10 x 40	M10 x 40	0.51	1	**111837**
M12 x 50	M12 x 50	0.52	1	**111838**
M16 x 65	M16 x 65	0.55	1	**111839**

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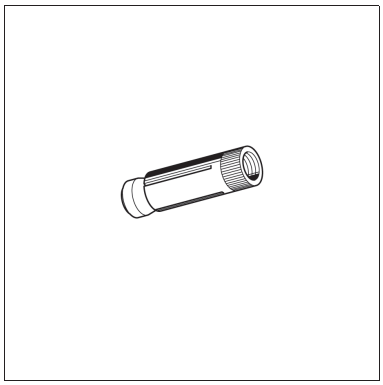


Hollow Core Anchor AN Easy

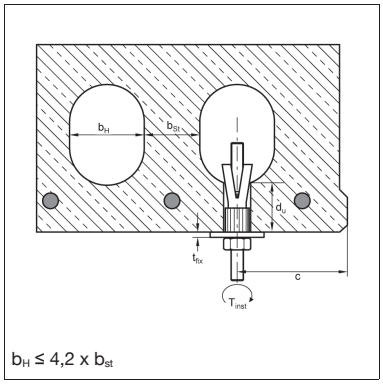
Group: 1412

Application

Internal thread anchor to be used in pre-stressed hollow concrete slabs. Suitable for suspension of pipe lines, channels, etc. considering the approval regulations for the use with threaded rods or screw. Only to be used with construction components under dry indoor conditions. The general technical approval allows the anchor to be installed even if the drill hole does not hit the cavity.

Installation

Tightening the screw or nut pulls the expansion cone inside the anchor sleeve which keys into the cavity. The anchor spreads Y-shaped inside the hollow space and using the specified torque gives secure form closure.

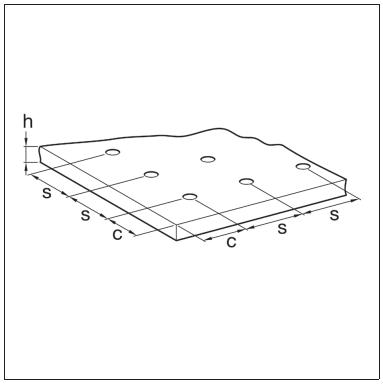


$b_H \leq 4{,}2 \times b_{st}$

Technical Data

General installation parameters:

Anchor size	M8	M10	M12
Drill hole dia. d_0 = [mm]	12	16	18
Depth of drill hole h_0 = [mm]	55	60	70
Clearance hole in the fixture $d_f \leq$ [mm]	9	12	14
Minimum length of screw min l_s [3)] [mm]	47	55	61
Minimum lenght of stud min l_s [3)] [mm]	53	63	71
Installation torque T_{inst} = [Nm]	20	30	40
Minimum strength of screw/stud	5.8	5.8	5.8
Character. centre distance s_{cr} [mm]	300	300	300
Character. edge distance c_{cr} [mm]	150	150	150
Minimum edge distance c_{min} [mm]	100	100	100



Admission requirement for single anchor used in pre-stressed hollow concrete slabs ≥ C45/55:

Anchor size Web thickness $d_u \geq$ [mm]	M8 25	M8 30	M8 40	M8 50	M10 25	M10 30	M10 40	M10 50
Approved load [1)] bei $c \geq c_{cr}$ [kN]	0.7	0.9	2.0	3.6	0.9	1.2	3.0	3.6
Approved loads [1)] bei c_{min} [kN]	0.35	0.8	1.8	3.0	0.8	1.0	2.7	3.0
Loads under fire exposure								
Approved load R 30 amd. F [kN]		0.9	0.9	0.9		1.2	1.5	1.5
Approved load R 60 adm. F [kN]		0.9	0.9	0.9		1.2	1.5	1.5
Approved load R 90 adm. F [kN]		0.7	0.7	0.7		1.2	1.2	1.2
Approved load R 120 adm. F [kN]		0.4	0.4	0.4		1.0	1.0	1.0

Anchor size Web thickness $d_u \geq$ [mm]	M12 25	M12 30	M12 40	M12 50
Approved load [1)] bei $c \geq c_{cr}$ [kN]	1.0	1.2	3.0	4.3
Approved load [1)] bei c_{min} [kN]	0.8	1.0	2.7	3.6
Loads under fire exposure				
Approved load R 30 adm. F [kN]		1.2	1.5	1.5
Approved load R 60 adm. F [kN]		1.2	1.5	1.5
Approved load R 90 amd. F [kN]		1.2	1.5	1.5
Approved load R 120 adm. F [kN]		1.2	1.2	1.2

Admission requirement pair of anchors [4)] pre-stressed hollow concrete slabs ≥ C45/55:

Anchor size Web thickness $d_u \geq$ [mm]	M8 25	M8 30	M8 40	M8 50	M10 25	M10 30	M10 40	M10 50
Approved load [1] at $c \geq c_{cr}$ [kN]	0.7	1.4	2.6	4.8	1.1	2.0	4.8	4.8
Approved load [1] at c_{min} [kN]	0.35	1.25	2.35	4.0	0.9	1.8	4.3	4.3
Minimum centre distance s_{min} [mm]	70	80	100	100	70	80	100	100
Approved bending moments (Steel 5.8)[2] $M_{adm.}$ [Nm]	10.7	10.7	10.7	10.7	21.4	21.4	21.4	21.4
Approved bending moments (Steel 8.8) M_{adm} [Nm]	17.1	17.1	17.1	17.1	34.2	34.2	34.2	34.2
Loads under fire exposure								
Approved load R 30 adm. F [kN]		1.25	1.25	1.25		1.8	3.0	3.0
Approved load R 60 adm. F [kN]		1.25	1.25	1.25		1.8	3.0	3.0
Approved load R 90 adm. F [kN]		1.25	1.25	1.25		1.8	2.4	2.4
Approved load R 120 adm. F [kN]		0.8	0.8	0.8		1.8	2.0	2.0

Anchor size Web thickness $d_u \geq$ [mm]	M12 25	M12 30	M12 40	M12 50
Approved load [1] at $c \geq c_{cr}$ [kN]	1.2	2.0	4.8	5.7
Approved load [1] bei c_{min} [kN]	1.0	1.8	4.3	4.8
Minimum centre distance s_{min} [mm]	70	80	100	100
Approved bending moments (Steel 5.8)[2] $M_{adm.}$ [Nm]	37.4	37.4	37.4	37.4
Approved bending moments (Steel 8.8) $M_{adm.}$ [Nm]	59.8	59.8	59.8	59.8
Loads under fire exposure				
Approved load R 30 adm. F [kN]		1.8	3.0	3.0
Approved load R 60 adm. F [kN]		1.8	3.0	3.0
Approved load R 90 adm. F [kN]		1.8	3.0	3.0
Approved load R 120 adm. F [kN]		1.8	2.4	2.4

1) For edge distances $c_{min} < c \leq c_{cr}$ the recommended loads can be determined by linear interpolation.
2) Using lower strength classes, the value is to be reduced accordingly.
3) The required screw length is determined by the minimum length of screw + the thickness of the fixture t_{fix} (total length = $l_s + t_{fix}$)
4) Approved load F_{max} / Anchor ≤ F_{max} single anchor. On double anchorage with spacing $s_{min} < s \leq s_{cr}$ the recommended load may be determined by linear interpolation, assuming the limiting value $s = s_{cr}$ for the double anchorage exposed to tension is twice the recommended load of a single anchor.

Material: Steel, zinc-plated

Approvals
Approval: Z-21.1-1785, Fire Protection Eximantion, VdS-Approval

Type	Total length [mm]	Hülsen-länge [mm]	W [kg]	Quantity [pack]	Part number
AN Easy M8	45	35	0.01	50	**110463**
AN Easy M10	53	40	0.03	50	**110465**
AN Easy M12	58	45	0.04	25	**110466**

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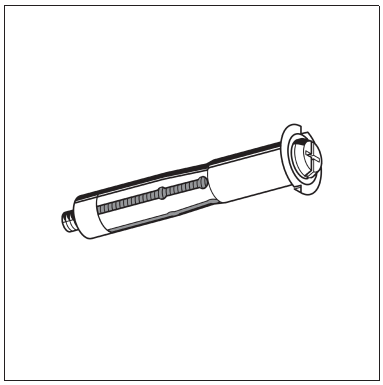


Hollow Space Anchor Metal ANC-M

Group: 1416

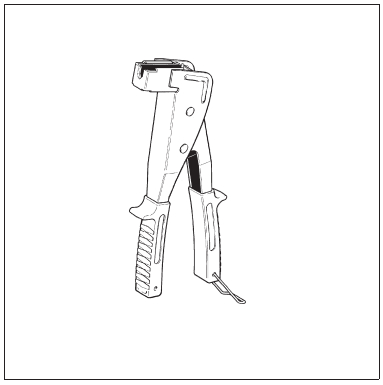
Application
The Hollow Space Anchor Metall ANC-M is used for installations in hollow walls, covered with plasterboards, laminated wood and chip boards, as well as hollow masonry with big cavities. The object can be removed and tightended at any time without changing the position of the anchor. Straps at the anchor cap ensure a perfect torsion protection.

Scope of delivery
Multiple splitted anchor body with a metric bolt.

Installation
Tightening the anchor with a pair of Assembly Pliers ANC-M MZ, the slats spread completely and ensure a safe grip.

Technical Data
Material: Anchor and bolt of steel, electrogalvanized.

Type	Ø [mm]		Panel thickness [mm]		W [kg]	Quantity [pack]	Part number
M4/12	7-8	32	3 - 12	16	0.01	100	**402400**
M5/16	9-10	52	3 - 16	20	0.02	100	**402401**
M5/32	9-10	65	11 - 32	16	0.02	100	**402402**
M6/16	10-12	52	3 - 16	16	0.02	100	**402403**
M6/32	10-12	65	11 - 32	24	0.03	100	**402404**
M8/21	13	65	5 - 21	25	0.03	100	**402405**
M8/34	13	75	16 - 34	25	0.04	100	**402406**

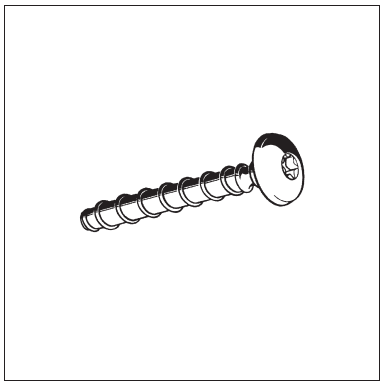


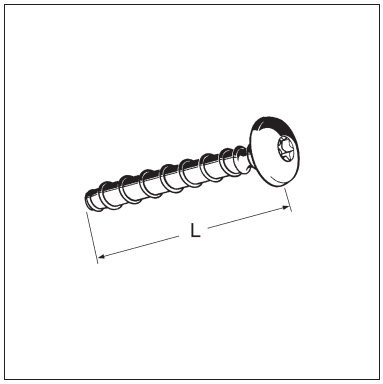
Assembly Pliers ANC-M MZ

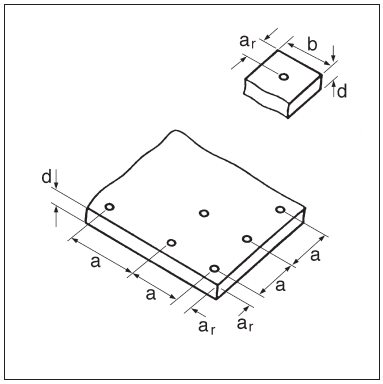
Group: 8106

Application
Installation tool for Hollow Space Anchors Metal ANC-M.

Type	W [kg]	Quantity [pack]	Part number
M4 - M8	0.57	1	**408578**







Screwbolt MMS-PR

Group: 1405

Application

Suitable for quick and safe installing of Channels MS 27 to concrete ceilings or walls and masonry constructions (of calcareous sandstone, solid bricks, clinker bricks, natural stone). To be applied in closed rooms - not suitable for damp locations.

The nail head diameter is adapted exactly to the hole and hole pattern of the Channels MS 27.

- Easy drilling (6 mm only), no special drill required.
- Small distances due to low expansion pressure.
- Excellent transmission of the torque due to Torx connection.

Installation

An impact screwdriver is best suitable for mounting, using a T30 Torx bit. For subsequently adjusting the component to be connected, unscrew the Bolt Screw Anchor a few millimetres and tighten it again afterwards.

Technical Data

Perm. load (centric tension) in the tension zone for install. [kN] solutions in concrete ≥ B25 (max. B55) acc. to approval	0.5
Permissible load in the pressure zone (concrete ≥ B25) [kN]	2.0
Centre distance a ≥ [mm]	160
Edge distance a_r ≥ [mm]	80
Minimum thickness of component d ≥ **t** + 50 mm ≥ [mm]	105
Nominal diameter of drill [mm]	6
Cutting diameter ≤ [mm]	6.4
Minimum depth of bore hole t ≥ [mm]	55
Minimum setting depth ≥ [mm]	45
Maximum tigthening torque when mounting [Nm]	20

For brick walls respect a distance between the fixations and the joggle joints of the bricks of min. 30 mm, otherwise halve the load!

Material: Steel, case-hardened, tempered steel, electro-galvanised

Approvals

DIBt Approval No.: Z-21.1-1503:
Approved by the DIBt in the concrete tension zone for mounting light overhead facings and sub-ceilings as well as statically comparable installations up to 1 kN/m² exposed to mainly dead loading.
Fire resistance category: F120 (F_{max} = 0.5 kN)

Type	L [mm]	Screw tool	W [kg]	Quantity [pack]	Part number
MMS-PR 7.5 x 50	50	T 30	0.02	100	**157959**

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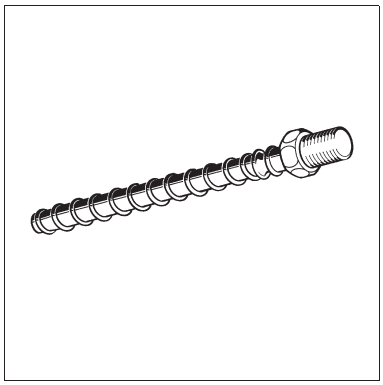


Screwbolt MMS-ST

Group: 1402

Application

Suitable for quickly and safely fixing e.g. channels and pipes to ceilings or walls of concrete and brickwork constructions (of calcareous sandstone, solid bricks, clinker bricks, natural stone). To be applied in closed rooms - not suitable for damp locations.

- Easy drilling (6 or 8 mm only), no special drill rquired.
- Small distances due to low expansion pressure.
- "The Bolt Screw that does not need an anchor".

Installation

Screw in the bolt screw in pre-drilled cylindrical hole. The special thread guarantees formlock screw in. Readjustment of depth is possible.

Technical Data

Type	7.5x70	7.5x80 - 7.5x160	10x80	10x100 - 10x120
Drive	SW 10	SW 10	SW 13	SW 13
Thread connection	M8x14	M8x14	M10x11	M10x11
Nominal diameter of drill d_0 [mm]	6	6	8	8
Drilling depth h_1 [mm]	55	65	65	75
Setting depth h_{nom} [mm]	45	55	55	65
max. adm. tensile load in cracked concrete C20/25 [kN]	0.5 [1]	2.0 [2]	0.8 [1]	3.7 [2]
max. adm. tensile load in non-cracked concrete C20/25 [kN]	2.0 [1]	3.1 [2]	-	4.9 [2]
perm. bending moment M_{perm} [Nm]	9.4	9.4	18.7	18.7
recommended max. torque T_{inst} [Nm]	20	20	40	40
recommended max. tension load in chalk sandstone [3] [kN]	1.4	1.4	2.1	2.1
recommended max. tension load in brick [3] [kN]	1.4	1.4	2.1	2.1
recommended max. tension load in solid brickwork [3] [kN]	0.8	0.8	1.0	1.0
tested load in concrete under stress [4]				
F 30	0.5 [1]	1.5	0.8 [1]	2.7
F 60	0.5 [1]	1.1	0.8 [1]	2.0
F 90	0.5 [1]	0.8	0.8 [1]	1.5
F 120	0.5 [1]	0.5	0.8 [1]	1.0
tested load in brickwork under stress [4]				
F 30	1.25	1.25	2.5	2.5
F 60	0.8	0.8	1.4	1.4
F 90	0.5	0.5	1.0	1.0
F 120	0.3	0.3	0.8	0.8

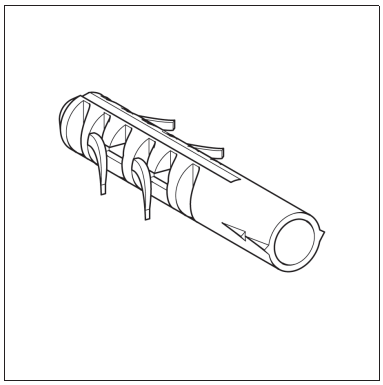
Material: Steel, electro-galvanised

Approvals

[1] according to DIBt-Approval No. Z-21.1-1503
[2] according to ETA 05/0010
[3] single anchor without influence of strength class KS12/MS12
[4] load for single anchor traction-, lateral traction and res. directions of load. Respect values of cold strain.

For calculation the whole approval is to be respected.

Type	Total length [mm]	Panel thickness [mm]	W [kg]	Quantity [pack]	Part number
7.5 x 70	70	25	0.02	100	**157816**
7.5 x 80	80	25	0.02	50	**157825**
7.5 x 100	100	45	0.03	50	**157834**
7.5 x 120	120	65	0.03	50	**157843**
7.5 x 140	140	85	0.03	50	**157852**
7.5 x 160	160	105	0.04	50	**157861**
10 x 80	80	25	0.03	50	**157889**
10 x 100	100	35	0.04	100	**157898**
10 x 120	120	55	0.05	50	**157904**



Nylon Plug ANN

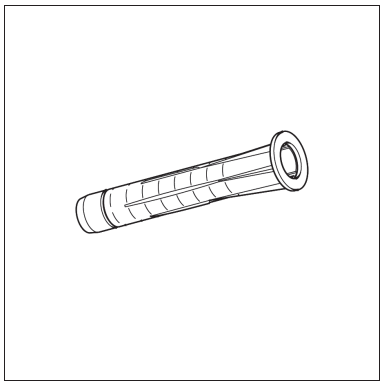
Group: 1411

Technical Data

Recommended loads (max) kN:

Type	Concrete B25	Solid brick	Lightweight concrete
ANN 6	0.60	0.50	0.06
ANN 8	0.85	0.80	0.09
ANN 10	1.40	1.00	0.20
ANN 12	1.80	1.40	0.40
ANN 14	3.00	1.50	0.50

Type	Ø [mm]	Length [mm]	Screw-Ø min/max	W [kg]	Quantity [pack]	Part number
ANN 6 x 30	6	30	3.5/5.0	0.01	100	**402101**
ANN 8 x 40	8	40	4.5/6.0	0.01	100	**402102**
ANN 10 x 50	10	50	6.0/8.0	0.01	50	**402103**
ANN 12 x 60	12	60	8.0/10.0	0.01	25	**402104**
ANN 14 x 75	14	75	10.0/12.0	0.01	20	**402105**



Universal Plug ANU

Group: 1415

Application

The Universal Plug with collar is suitable for all concrete material and masonry, perforated and hollow bricks, boards. The torsion protection prevents rotation in the drill hole. The installation in cavities causes a knot and therefore an interlocking connection. The stiff plug neck prevents damage of tiles and plaster. The collar serves as stop an prevents the plug from slipping deeper into the drill hole.

Technical Data

Temperature range: -40°C up to +70°C

Recommended loads (max) kN:

Type	concrete B25	perforated brick	light concrete	plaster-board	chip board
6[1)]	0,60	0,45	0,30	_ -	_ -
6[2)]	0,40	0,30	0,15	0,15	0,40
8[1)]	1,10	0,90	0,50	-	-
8[2)]	0,80	0,60	0,30	0,18	0,45
10[1)]	1,80	1,20	0,50	-	-
10[2)]	1,00	0,60	0,40	0,20	0,60
12[1)]	3,00	1,80	1,20	_ -	-
14[1)]	4,00	2,20	1,30	_ -	-

[1)] Wood screw with max. diameter
[2)] Chip board screw with max. diameter safety factor 5.0

Type	Ø [mm]	Length [mm]	Screw-Ø min/max	W [kg]	Quantity [pack]	Part number
ANU 6 x 34	6	33/34	3.5 - 5.0	0.01	100	**402200**
ANU 8 x 47	8	46/47	4.5 - 6.0	0.01	100	**402201**
ANU 10 x 57	10	56/57	6.0 - 8.0	0.01	50	**402202**
ANU 12 x 68	12	67/68	8.0 - 10.0	0.01	25	**402203**
ANU 14 x 73	14	71/73	10.0 - 12.0	0.01	20	**402204**

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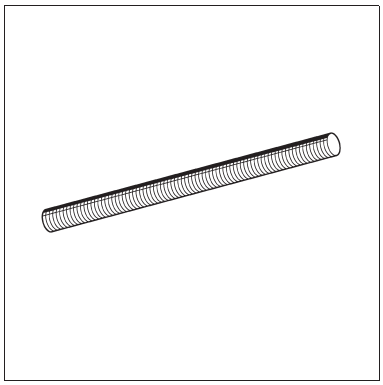


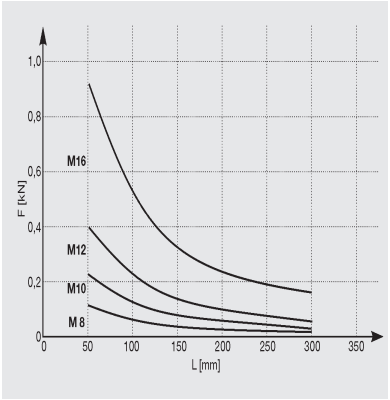
Threaded Stud GST

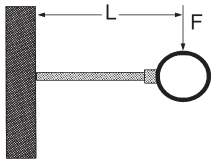
Group: 1316

Technical Data

Thread	Working load (tension)
M8	8.0 kN
M10	12.5 kN
M12	18.1 kN
M16	33.8 kN

Permissible cantilever load:

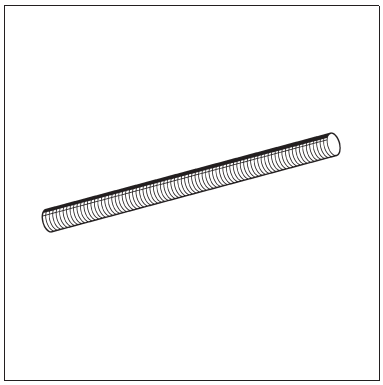




$\sigma_{zul} \leq 160$ N/mm ^{2}
$f \leq 3$ mm

Material: Steel class 4.8, electro-galvanised

Type	Length [mm]	W [kg]	Quantity [pack]	Part number
M8/25	25	0.01	100	**124513**
M8/40	40	0.01	100	**126913**
M8/70	70	0.02	100	**126922**
M8/100	100	0.03	100	**111580**
M8/125	125	0.04	50	**111669**
M8/150	150	0.05	50	**111599**
M8/175	175	0.05	50	**111678**
M8/200	200	0.06	50	**111605**
M8/225	225	0.07	25	**111687**
M8/250	250	0.08	25	**111614**
M8/300	300	0.09	25	**174260**
M10/25	25	0.01	100	**126940**
M10/40	40	0.02	100	**126959**
M10/70	70	0.03	100	**126968**
M10/100	100	0.05	100	**111623**
M10/125	125	0.06	50	**111696**
M10/150	150	0.07	50	**111632**
M10/175	175	0.08	50	**111702**
M10/200	200	0.10	50	**111641**
M10/225	225	0.11	25	**111711**
M10/250	250	0.12	25	**111650**
M10/300	300	0.14	25	**174269**
M12/100	100	0.07	50	**111429**
M12/125	125	0.09	50	**111766**
M12/150	150	0.11	50	**111438**
M12/175	175	0.12	25	**111775**
M12/200	200	0.14	25	**111447**
M12/225	225	0.16	25	**111784**
M12/250	250	0.18	25	**111456**
M16/100	100	0.13	50	**111465**
M16/125	125	0.16	50	**111793**
M16/150	150	0.19	50	**111474**
M16/200	200	0.26	25	**111483**
M16/250	250	0.32	25	**111492**



Threaded Rod GST

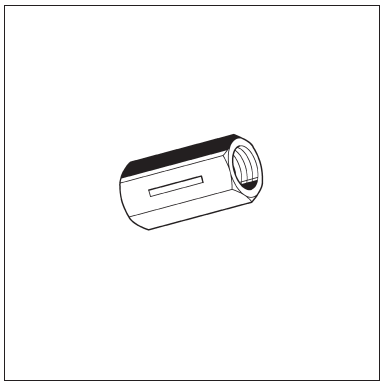
Group: 1317

Technical Data

Thread	Working load (tension)
M8	8.0 kN
M10	12.5 kN
M12	18.1 kN
M16	33.8 kN

Material: Steel class 4.8, electro-galvanised

Type	Length	Weight [kg/m]	Qty. [m]	Part number
M8 x 1000	1 m	0.31	25	**124559**
M8 x 2000	2 m	0.31	50	**142696**
M8 x 3000	3 m	0.31	30	**142739**
M10 x 1000	1 m	0.49	25	**124568**
M10 x 2000	2 m	0.49	50	**142702**
M10 x 3000	3 m	0.49	30	**142748**
M12 x 1000	1 m	0.70	25	**143192**
M12 x 2000	2 m	0.70	20	**142711**
M12 x 3000	3 m	0.70	30	**142757**
M16 x 1000	1 m	1.30	10	**110817**
M16 x 2000	2 m	1.30	20	**142720**
M16 x 3000	3 m	1.30	15	**142766**



Rod Coupling AD f/f

Group: 1332

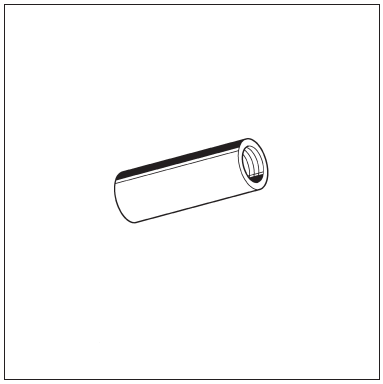
Application

Element for joining two threaded rods. With slit for visual control of the screwed-in length of thread.

Technical Data

Material: Steel, electro-galvanised

Type	Length [mm]	A/F	W [kg]	Quantity [pack]	Part number
M8 x 25	25	13 mm	0.02	100	**124920**
M10 x 30	30	17 mm	0.04	100	**124939**
M12 x 35	35	17 mm	0.04	50	**124948**
M16 x 40	40	22 mm	0.07	50	**124957**



Round Rod Coupling AD RD f/f

Group: 1332

Application

Element for joining two threaded rods, threaded tubes,
as well as distance, e.g. in combination with Slide Set and Pipe Clamp.
For pipe clamps with thread $^{3}/_{8}$" the Adapter AD f/f $^{3}/_{8}$"/M16 (part no.111715) is used.

Technical Data

Material: Steel, electro-galvanised

Type	Length [mm]	W [kg]	Quantity [pack]	Part number
M8 x 30	30	0.01	100	**157232**
M10 x 30	30	0.01	100	**157250**
M12 x 35	35	0.02	50	**157278**
M16 x 45	45	0.07	50	**157296**
M16 x 100	100	0.11	20	**191108**
M16 x 150	150	0.16	20	**191117**
$^{1}/_{2}$" x 45	45	0.06	20	**191126**
$^{1}/_{2}$" x 100	100	0.14	20	**191135**
$^{1}/_{2}$" x 150	150	0.21	20	**191144**

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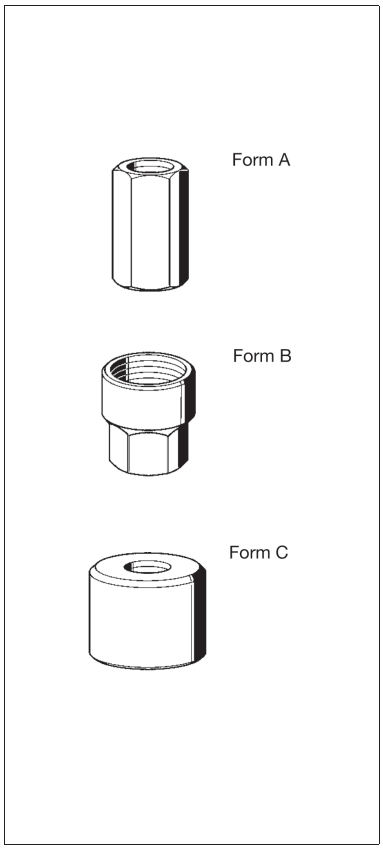


Adapter AD f/f

Group: 1333

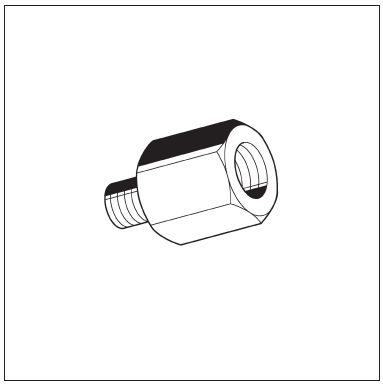
Application

Additional connection options for all Sikla Pipe Clamps equipped with 3G triple thread nut, fixed points and threaded tubes.

Technical Data

Material:
Form A: Steel, electro-galvanised
Form B: Malleable cast iron, electro-galvanised

Type	Form	Length [mm]	A/F [mm]	W [kg]	Quantity [pack]	Part number
M16/M10	A	35	19	0.05	50	**106740**
M16/M12	A	35	19	0.04	50	**124665**
M16/M16	A	30	19	0.03	50	**106290**
3/8"/M16	A	40	19	0.03	25	**146335**
1/2"/M10	A	35	24	0.07	10	**146371**
1/2"/M12	A	35	24	0.06	25	**156639**
1/2"/M16	A	40	24	0.07	25	**124656**
1/2"/3/8"	A	40	24	0.06	25	**146344**
1/2"/1/2"	A	35	24	0.11	10	**146380**
3/4"/M10	A	35	32	0.15	10	**105651**
3/4"/M12	A	35	32	0.08	10	**105749**
3/4"/M16	A	35	32	0.14	10	**105660**
3/4"/3/8"	A	35	32	0.14	25	**146353**
3/4"/1/2"	A	35	32	0.08	10	**146399**
1"/M10	B	40	22	0.13	10	**105679**
1"/M12	B	40	22	0.13	10	**105758**
1"/M16	B	40	22	0.12	10	**105688**
1"/3/8"	B	40	22	0.12	25	**146362**
1"/1/2"	B	40	27	0.12	10	**146405**
M16/1/2"	C	25	-	0.06	25	**157922**
M16/3/4"	C	28	-	0.09	25	**157931**
3/8"/M16	C	100	-	0.11	20	**111715**
3/8"/1/2"	C	100	-	0.19	20	**113349**



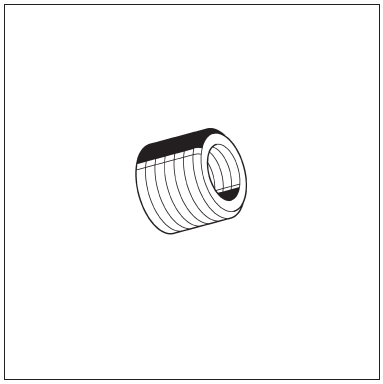
Reducer AD f/m

Group: 1313

Technical Data

Material: Steel, electro-galvanised

Type	Female thread [mm]	Male Thread [mm]	Total length [mm]	A/F	W [kg]	Quantity [pack]	Part number
8/10	M8 x 10	M10 x 8	23.0	13	0.02	50	**113670**
10/8	M10 x 10	M8 x 11	26.0	13	0.01	50	**113689**
10/16	M10 x 10	M16 x 12	32.0	17	0.05	50	**113698**
16/10	M16 x 13	M10 x 8	36.0	22	0.07	50	**113704**



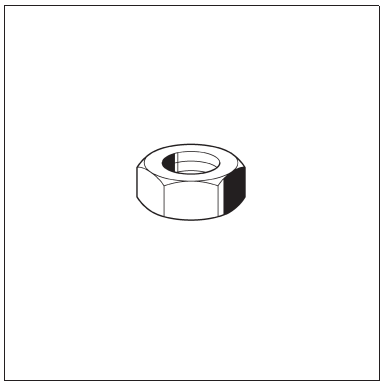
Reducer AD m/f

Group: 1319

Technical Data

Material: Steel, electro-galvanised

Type	Female thread [mm]	Male Thread [mm]	Total length [mm]	W [kg]	Quantity [pack]	Part number
16/10	M10 x 13	M16 x 13	13.0	0.01	25	**124230**
16/12	M12 x 13	M16 x 13	13.0	0.01	25	**124267**



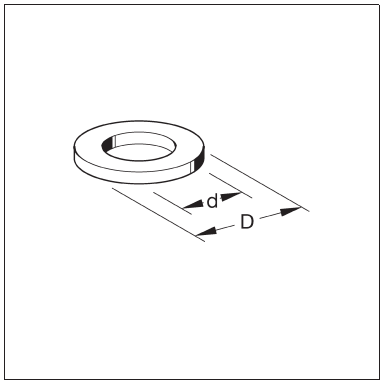
Hexagon Nut NT

Group: 1371

Technical Data

Satisfies DIN 934
Material: Steel class 8, electro-galvanised

Type	W [kg]	Quantity [pack]	Part number
M6	0.01	100	**125347**
M8	0.01	100	**125356**
M10	0.01	100	**137546**
M12	0.02	100	**114228**
M16	0.03	100	**114237**



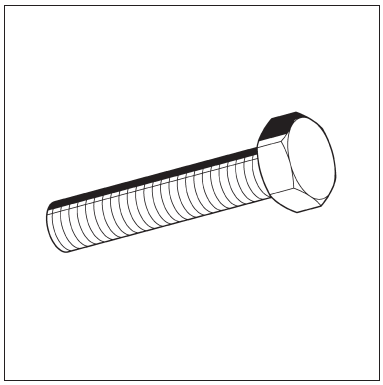
Washer US

Group: 1372

Technical Data

Material: Steel, electro-galvanised

Type	DIN	D [mm]	d [mm]	s [mm]	W [kg]	Quantity [pack]	Part number
8/125	125	16.0	8.4	1.6	0.01	100	**125329**
8/9021	9021	24.0	8.4	2.0	0.01	100	**137883**
8/40	-	40.0	8.4	3.0	0.03	100	**105581**
8/45	-	45.0	8.4	4.0	0.04	100	**105624**
10/125	125	20.0	10.5	2.0	0.01	100	**137564**
10/9021	9021	30.0	10.5	2.5	0.01	100	**125365**
10/40	-	40.0	10.5	3.0	0.02	100	**105590**
10/45	-	45.0	10.5	4.0	0.04	100	**105633**
12/125	125	24.0	13.0	2.5	0.01	100	**114246**
12/30	-	30.0	13.0	2.5	0.01	100	**156462**
12/40	-	40.0	13.0	3.0	0.02	100	**105606**
12/440	440	44.0	13.5	4.0	0.04	100	**125374**
16/125	125	30.0	17.0	3.0	0.01	100	**114255**
16/40	-	40.0	16.5	3.0	0.02	100	**105615**



Hexagon Bolt SKT

Group: 1370

Technical Data

Thread	Working load (tension)
M8	15.6 kN
M10	24.7 kN
M12	35.9 kN
M16	66.7 kN

Satisfies DIN 933
Material: Steel class 8.8, electro-galvanised

Type	Length [mm]	W [kg]	Quantity [pack]	Part number
M8/20	20	0.01	100	**138459**
M8/25	25	0.01	100	**138431**
M8/30	30	0.02	100	**138574**
M8/40	40	0.02	100	**138440**
M8/60	60	0.02	100	**114705**
M8/80	80	0.03	100	**114714**
M8/100	100	0.04	100	**138608**
M8/110	110	0.04	100	**124975**
M10/20	20	0.02	100	**138617**
M10/25	25	0.02	100	**138468**
M10/30	30	0.03	100	**138626**
M10/40	40	0.03	100	**114158**
M10/60	60	0.04	100	**138635**
M10/80	80	0.05	50	**114723**
M10/100	100	0.06	50	**114732**
M10/120	120	0.07	50	**138644**
M12/25	25	0.04	100	**138662**
M12/30	30	0.04	100	**138477**
M12/40	40	0.05	50	**138671**
M12/60	60	0.06	50	**138680**
M12/80	80	0.07	50	**138705**
M12/100	100	0.09	50	**138714**
M12/120	120	0.10	50	**114750**
M16/25	25	0.07	50	**138723**
M16/30	30	0.08	50	**138732**
M16/45	45	0.10	50	**138741**
M16/60	60	0.12	50	**138556**
M16/80	80	0.14	25	**138750**
M16/100	100	0.17	25	**138769**
M16/120	120	0.19	25	**114778**

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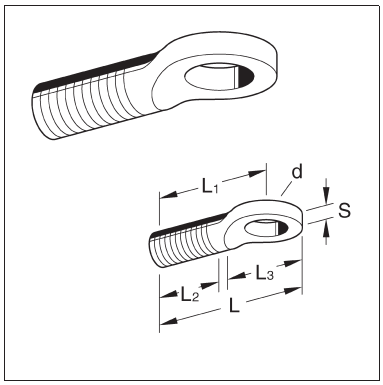


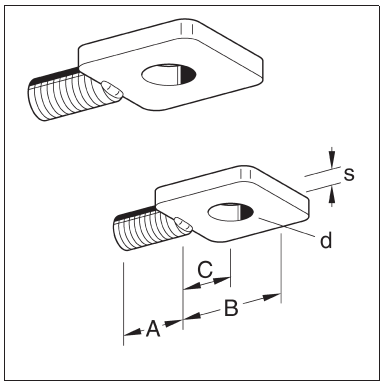
Eye Bolt SCR

Group: 1303

Technical Data

Material: Steel, electro-galvanised

Type	L [mm]	L_1 [mm]	L_2 [mm]	L_3 [mm]	d [mm]	s [mm]	W [kg]	Quantity [pack]	Part number
M8	45	34	20	21	8.5	3.3	0.01	100	**102418**
M10	48	36	20	25	12.0	4.2	0.02	100	**102427**



Flat Leaf Bolt SCR

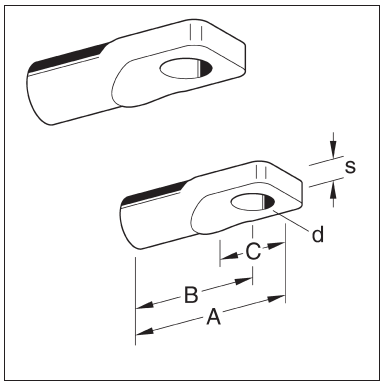
Group: 1303

Technical Data

Satifies the VdS standards.

Material: Cold-worked steel, electro-galvanised

Type	A [mm]	B [mm]	C [mm]	d [mm]	s [mm]	W [kg]	Quantity [pack]	Part number
M8 x 20	20.0	33.0	17.0	10.0	4.5	0.03	100	**102436**
M8 x 40	40.0	33.0	17.0	10.0	4.5	0.04	100	**102445**
M10 x 20	20.0	33.0	16.0	12.5	4.8	0.03	100	**102454**
M10 x 40	40.0	33.0	16.0	12.5	4.8	0.04	50	**102463**
M12 x 40	40.0	33.0	16.0	12.5	6.0	0.06	50	**102764**
M16 x 25	22.0	40.0	33.0	17.0	10.0	0.12	25	**101824**



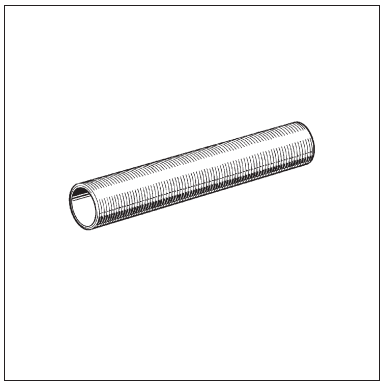
Link Eye SCB

Group: 1301

Technical Data
Satifies the VdS standards.

Material: Cold-worked steel, electro-galvanised

Type	A [mm]	B [mm]	C [mm]	s [mm]	d [mm]	Thread [mm]	W [kg]	Quantity [pack]	Part number
M8	46.5	35.5	22.0	5.5	11.0	12.0	0.03	100	**124221**
M10	50.5	39.5	22.0	6.5	12.0	15.0	0.04	100	**124203**
M12	56.1	43.5	23.0	7.5	13.0	21.0	0.10	100	**150916**



Threaded Tube GR

Group: 1310

Application
To be used as
- a direct connection element between Mounting Plate and Pipe Clamp or
- a support rod in combination with Socket Angle or Universal Joints as angular support.

Scope of delivery
Standard length 2m. Shorter pre-cut parts available on request.

Technical Data
Screw thread as per DIN EN ISO 228

Material: Steel, electro-galvanised

Type	Length	Weight [kg/m]	Qty. [m]	Part number
G $^1/_2$"	2 m	1.02	2	**151102**
G $^3/_4$"	2 m	1.01	2	**151111**
G 1"	2 m	2.71	2	**151120**

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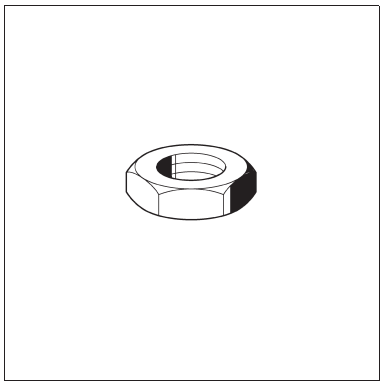


Locking Nut NT G

Group: 1310

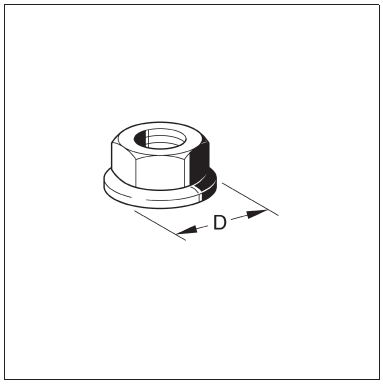
Application

Suitable for the Sikla Threaded Tubes and thread connectors (such as mounted in Slide Sets).

Technical Data

Material: Steel, electro-galvanised

Type	W [kg]	Quantity [pack]	Part number
G 1/2"	0.04	25	**157092**
G 3/4"	0.04	25	**157108**
G 1"	0.08	25	**157117**



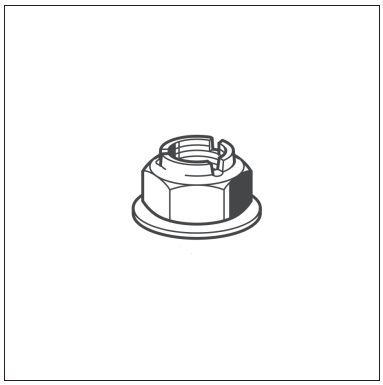
Flange Nut NT FLA

Group: 1374

Technical Data

Material: Steel class 8, electro-galvanised

Type	D [mm]	W [kg]	Quantity [pack]	Part number
M8	17.9	0.01	50	**158729**
M10	21.8	0.01	25	**158738**
M12	26.0	0.02	25	**158747**
M16	34.5	0.05	10	**160654**



Safety Nut with flange NT SEC HCP

Group: 1876

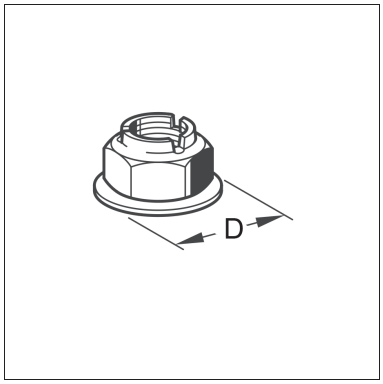
Application

The Safety Nut is equipped with a self-locking head made of steel (3 parts) being arranged in a conical shape. This offers the highest possible safety against unscrewing. The Safety Nut with flange offers the following advantages:

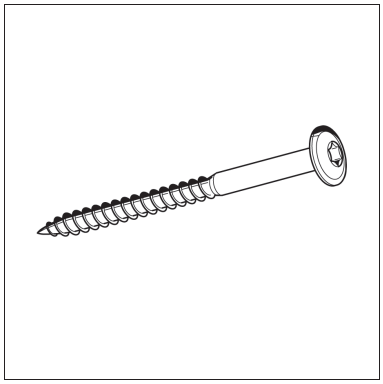
- Clamping effect directly at the thread – resilient, elastic
- applicable for all HCP and electrogalvanised screws and threaded rods
- improved thread moving due to the separated securing segments
- reusability after disassembling
- high temperature resistance

Technical Data

Material: Steel, Quality class 10, HCP



Type	D [mm]	W [kg]	Quantity [pack]	Part number
M8	17	0.01	50	**113062**
M10	21	0.01	50	**113063**



Torx Flat Head Coach Screw FLAH

Group: 1369

Application

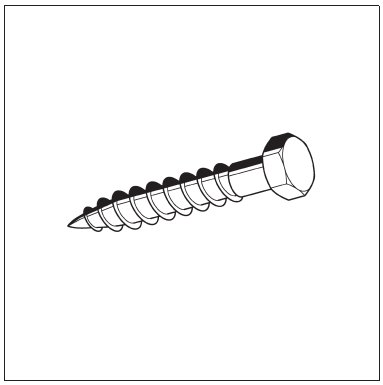
Flange screw with perfectly aligned properties for the constructional timber work, available in diameters 8 and 10 mm.

- Simple handling is secured due to ideal load transmission.
- The head dia. is aligned to the slots of Channel 41. Thus for direct assembly through the elongated hole of the channel, a good load bearing capacity is secured.
- The cutting notch allows direct screwing in without pre-drilling and allows a pinpoint locating.
- In addition, the tip avoids reliably the splitting of the battens behind.
- The high bearing of loads given by the flat head reduces the necessary fixing points. Especially for the fixing of roof hooks, an economical handling is assured.

Technical Data

Material: Steel, galvanised

Type	Ø [mm]	Length [mm]	Screw tool	W [kg]	Quantity [pack]	Part number
8/40	8	40	T 40	0.01	50	**110804**
8/60	8	60	T 40	0.02	50	**110805**
8/80	8	80	T 40	0.02	50	**110806**
10/70	10	70	T 40	0.03	50	**110807**
10/100	10	100	T 40	0.04	50	**110809**



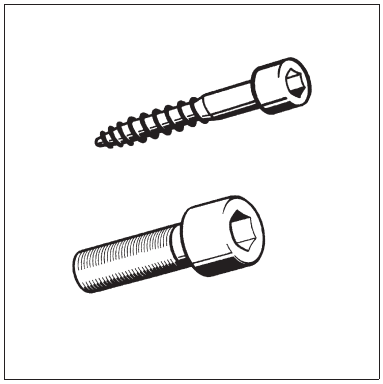
Hexagon Wood Screw SKH

Group: 1370

Technical Data

Material: Steel, electro-galvanised

Type	Ø [mm]	Length [mm]	W [kg]	Quantity [pack]	Part number
8/40	8	40	0.02	100	**156587**
8/50	8	50	0.02	100	**156596**
8/60	8	60	0.02	100	**156602**
8/80	8	80	0.03	100	**156611**
10/70	10	70	0.04	100	**156620**
10/100	10	100	0.05	100	**153663**



Hexagon Socket Screw SCR

Group: 1373

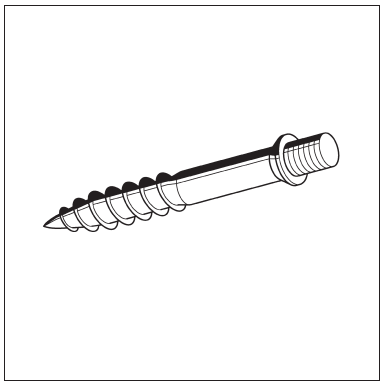
Installation

Type M8 x 16 may be also used as connecting element for Channels with slot pattern II.
Maximum distance between two clamping units: 250 mm.
At the ends, each one unit has to be mounted.
Tightening torque M = 25 Nm.

Technical Data

Material: Steel, electro-galvanised, internal hexagon 6 mm

Type	Length [mm]	W [kg]	Quantity [pack]	Part number
H6 x 45	45	0.01	100	**138699**
M8 x 16	16	0.01	100	**114185**



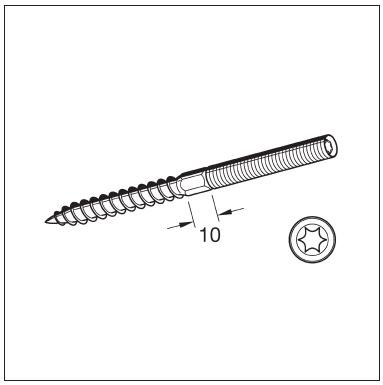
Bolt Screw BSCR with Collar

Group: 1315

Technical Data

Material: Steel, electro-galvanised

Type	Thread connection	Total length [mm]	W [kg]	Quantity [pack]	Part number
M8 - H6/80	M8	80	0.01	100	**138565**



Bolt Screw BSCR without Collar

Group: 1315

Technical Data

Material: Steel, electro-galvanised

Type	Thread connection	Total length [mm]	A/F	W [kg]	Quantity [pack]	Part number
M8/50 mm	M8 x 15	50	6	0.01	100	**124434**
M8/80 mm	M8 x 30	80	6	0.02	100	**124443**
M8/100 mm	M8 x 30	100	6	0.02	100	**124610**
M8/120 mm	M8 x 50	120	6	0.03	100	**124595**
M8/140 mm	M8 x 50	140	6	0.03	50	**124629**
M8/160 mm	M8 x 50	160	6	0.04	50	**124601**
M10/60 mm	M10 x 15	60	8	0.02	100	**153469**
M10/80 mm	M10 x 30	80	8	0.03	100	**124452**
M10/100 mm	M10 x 30	100	8	0.04	100	**129554**
M10/120 mm	M10 x 50	120	8	0.05	50	**124461**
M10/140 mm	M10 x 50	140	8	0.06	50	**124470**
M10/180 mm	M10 x 50	180	8	0.08	50	**131522**

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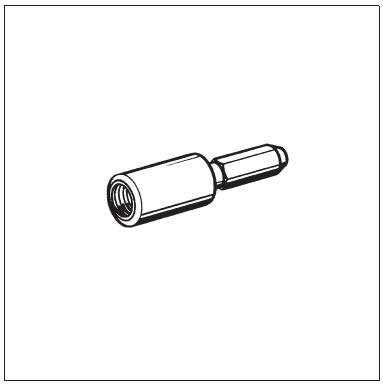


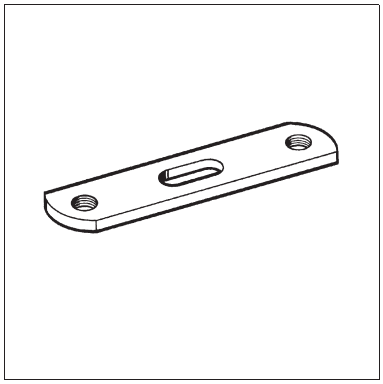
Bolt Screw Adapter ANT BIT

Group: 8101

Application
For fitting Bolt Screws by means of an electric screwdriver.

Technical Data
Material: Steel

Type	W [kg]	Quantity [pack]	Part number
M8	0.03	1	**121343**
M10	0.03	1	**121334**



Twin Holder DHP M8

Group: 1329

Technical Data
Material: Steel, electro-galvanised

Type and Centre distance	W [kg]	Quantity [pack]	Part number
65 mm	0.05	50	**124850**
85 mm	0.06	50	**124869**
105 mm	0.07	50	**124878**

HCP-High corrosion protection finishes

HCP

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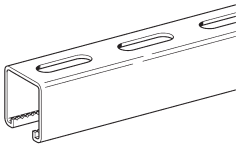
Channel MS 41 HCP



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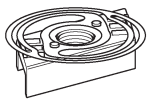
Speed Nut NT CC 41 HCP



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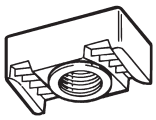
Channel Nut NT HZ 41 HCP



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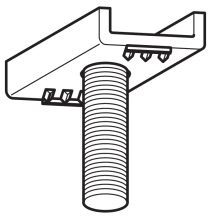
T-Head Bolt TBO HZ 41 HCP



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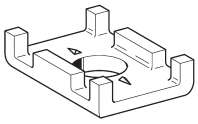
Holding Bracket HK HCP



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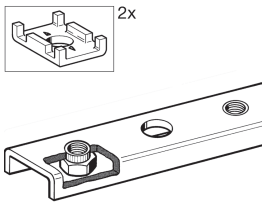
Channel Connector SK HCP



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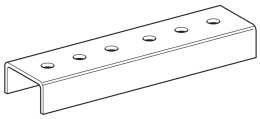
Channel Connector SK-L HCP



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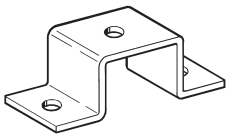
Channel Bracket SH HCP



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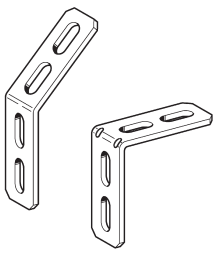
Fixing Bracket MW HCP



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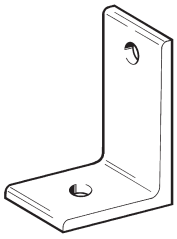
Fixing Bracket MW S HCP



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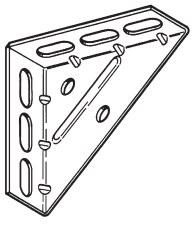
Support Bracket WK HCP



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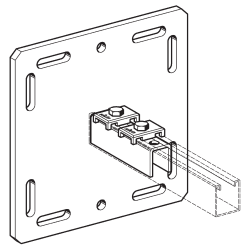
End Support WBD C HCP



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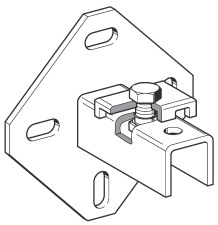
End Support WBD HCP



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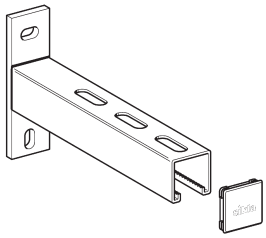
Cantilever Bracket AK HCP



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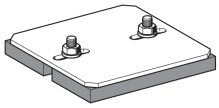
Insulated Foot Plate SHB HCP



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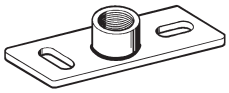
Mounting Plate GPL HCP



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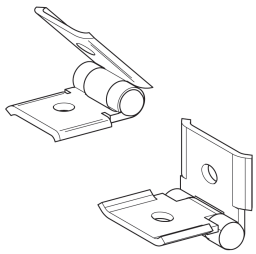
Joint 41 HCP



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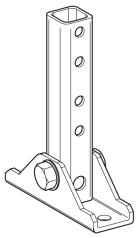
Joint 41 T HCP



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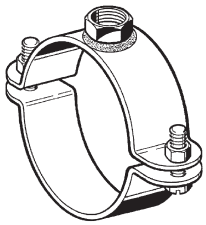
Stabil D-1G HCP



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Stabil D-3G HCP

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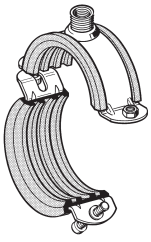
Pipe Clamp Stabil D-3G w/lining HCP



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Pipe Clamp Stabil RB-A HCP

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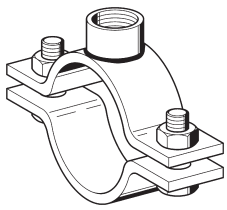
Pipe Clamp Stabil I-1/2" HCP



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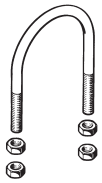
U Bolt RUB 3570 A HCP



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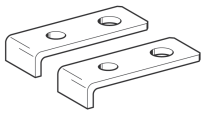
U Bolt Support UBF HCP



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Pipe Loop RSL N HCP

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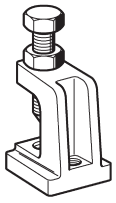
Beam Clamp TCS 1 HCP



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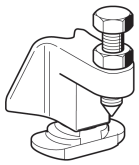
Beam Clamp TCS 41 HCP



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Beam Clip P HCP

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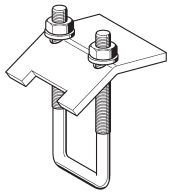
U-Holder SB 41 HCP



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Adapter AD f/f HCP

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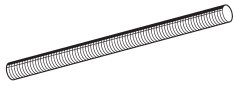
Threaded Stud GST HCP



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Threaded Tube GR HCP

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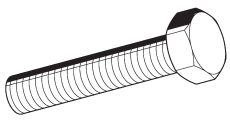
Hexagon Bolt SKT HCP



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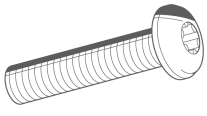
Flange Screw SCR FLA HCP



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Hexagon Nut NT HCP

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Locking Nut NT G HCP

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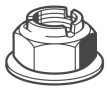
Safety Nut with flange NT SEC HCP



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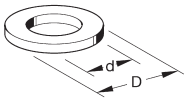
Washer US HCP



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HCP-High corrosion protection finishes

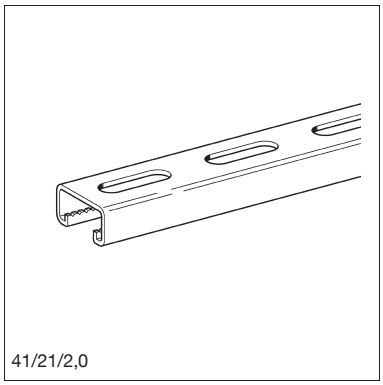
The defintion "High Corrosion Protection" - stands for optimal corrosion protection for different connecting elements. HCP-finish is a special kind of coating with one result. Sikla is offering you for the applications in corrosive category C1 up to C4 according to DIN EN ISO 12944 the individual adjusted corrosion protection with the following available coating systems:

- hot-dipped galvanised according to DIN EN ISO 461 resp. DIN EN ISO 10684
- High Performance corrosion protection consisting of zinc flake coating according to DIN EN 13858 resp. DIN EN ISO 10683
- Innovative zinc-nickel surface coating

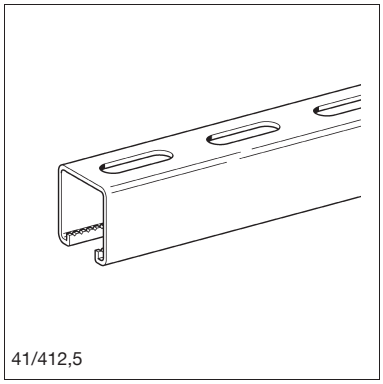
The protective effect of all HCP-coating systems is corresponding at least to the well established hot galvanisation with hot dip metal coating.

To select the optimal surface coating for your demands, we attach great importance to the protective effect, the preservation of the functionality (e.g. mobility of the thread), market requirement and economic feasibility

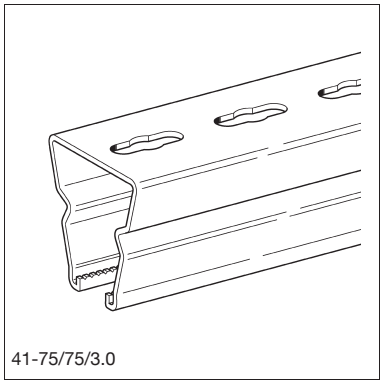
For projects with special requirements to the corrosion protection our customer service in collaboration with you will find the suitable surface coating.



41/21/2,0



41/412,5



41-75/75/3.0

Channel MS 41 HCP

Group: 1811

Application
Element for easily and efficiently pre-assembling crossbars, wall brackets and supporting structures on construction sites or in workshops.

Scope of delivery
Available as single or double channels.
Double channels are joined together by clinching.

Installation
All Channels MS 41 hcp are serrated inside and provide numerous combination options with other high corrosion protected system components.

Technical Data
Material: Steel, HCP

D = Double channel

Type W/H/th [mm]	Section modulus [cm^3]	Moment of inertia [cm^4]	Radius of gyration [cm]
41/21/2.0	W_y : 0.82 W_z : 2.12	I_y : 0.92 I_z : 4.35	i_y : 0.76 i_z : 1.65
41/31/2.0	W_y : 1.60 W_z : 2.88	I_y : 2.77 I_z : 5.90	i_y : 1.13 i_z : 1.65
41/41/2.0	W_y : 2.43 W_z : 3.65	I_y : 5.16 I_z : 7.48	i_y : 1.46 i_z : 1.75
41/41/2.5	W_y : 2.96 W_z : 4.41	I_y : 6.19 I_z : 9.05	i_y : 1.43 i_z : 1.72
41/62/2.5	W_y : 5.54 W_z : 6.27	I_y : 17.70 I_z : 12.86	i_y : 2.10 i_z : 1.79
41-75/75/3.0	W_y : 10.31 W_z : 11.59	I_y : 44.42 I_z : 43.48	i_y : 2.53 i_z : 2.50
41/21/2.0 D	W_y : 2.35 W_z : 4.24	I_y : 4.93 I_z : 8.70	i_y : 1.24 i_z : 1.65
41/41/2.5 D	W_y : 9.02 W_z : 8.82	I_y : 36.99 I_z : 18.10	i_y : 2.46 i_z : 1.72
41-75/75/3.0 D	W_y : 30.72 W_z : 23.07	I_y : 230.40 I_z : 86.96	i_y : 4.07 i_z : 2.50

Type W/H/th [mm]	Cross section A [cm^2]	Distance e [cm]	Max. point carrying capacity F_{max} [kN]	Max. torsional moment Mq [Nm]
41/21/2.0	1.61	1.12	4.0	44.5
41/31/2.0	2.17	1.73	4.0	44.5
41/41/2.0	2.43	2.12	4.0	44.5
41/41/2.5	3.05	2.09	6.0	44.5
41/62/2.5	4.01	3.20	6.0	44.5
41-75/75/3.0	6.95	4.31	10.0	44.5
41/21/2.0 D	3.21	2.10	4.0	44.5
41/41/2.5 D	6.09	4.10	6.0	44.5
41-75/75/3.0 D	13.90	7.50	10.0	44.5

Notice: All values take into account the perforation of the channels.
For load charts, see chapter "Pressix CC 41".

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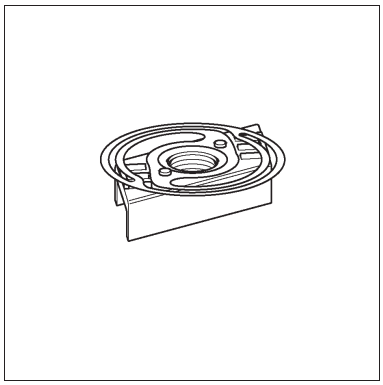
Approvals

This product is has obtained the "RAL Gütezeichen Rohrbefestigung" and is subject to external surveillance according to RAL GZ-655.

* = no RAL quality label

Type	Length [m]	Slot pattern	Weight [kg/m]	Qty. [m]	Part number
41/21/2.0	6	3	1.32	6	**193860**
41/31/2.0	6	3	1.64	6	**198896**
41/41/2.0	6	3	1.97	6	**196724**
41/41/2.5	6	3	2.36	6	**161497**
41/62/2.5	6	3	3.13	6	**199527**
41-75/75/3.0	6	4	5.68	6	**174008**
41/21/2.0 D *	6	3	2.64	6	**193884**
41/41/2.5 D *	6	3	4.74	6	**166748**
41-75/75/3.0 D *	6	4	11.24	6	**173981**



Speed Nut NT CC 41 HCP

Group: 1814

Application

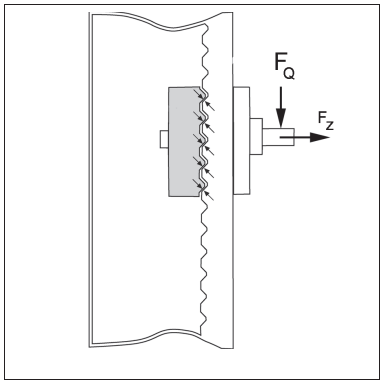
In particular useful for installation in vertical channels or places of difficult access.

Further advantages:

- For all Sikla Channels MS 41, independent of the channel's height.
- No getting stuck on bolt heads when sliding in the channel.
- No appearance of settlement after tightening.

Scope of delivery

Channel Nut and Spring are tightely connected.



Installation

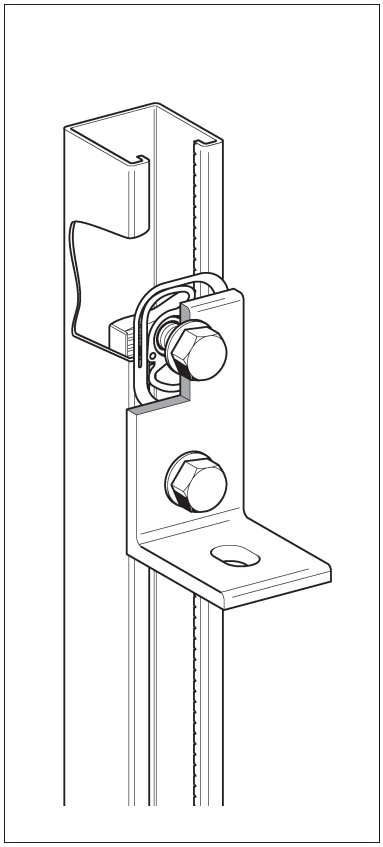
After inserting the Speed Nut into the channel opening, it is turned to the right as far as it will go by exerting slight pressure on it; deinstallation may be effected by following the instructions on the reverse order.

Installation and deinstallation do not require tools and may be repeated several times.

Technical Data

	M6	M8	M10	M12
Tightening torque 8.8 [1] [Nm]	10	25	40	80

[1] Using lower steel classes, the value are to be reduced accordingly.



Channel thickness [mm]	M6 FZ ≤ [kN]	M8 FZ ≤ [kN]	M10 FZ ≤ [kN]	M12 FZ ≤ [kN]		M6 FQ ≤ [kN]	M8 FQ ≤ [kN]	M10 FQ ≤ [kN]	M12 FQ ≤ [kN]
1.5	3.2	4.7	4.7	7.5		0.7	1.8	2.9	7.5
2.0	3.2	5.8	5.8	10		0.9	2.1	3.4	9
2.5	3.2	5.8	5.8	11		1.0	2.6	4.1	9
3.0	3.2	5.8	5.8	13		1.1	2.8	4.4	9

Note: The permissible load capacities of the channels are to be respected.

Material:

CC-Channel Nut: Steel class, HCP

Spring washer: Sheet metal spring steel, rustproof

Type	W [kg]	Quantity [pack]	Part number
CC 41-M6	0.03	50	**198698**
CC 41-M8	0.03	50	**198650**
CC 41-M10	0.03	50	**186284**
CC-41 M12	0.06	50	**110015**

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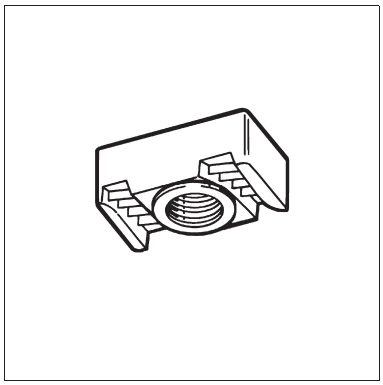
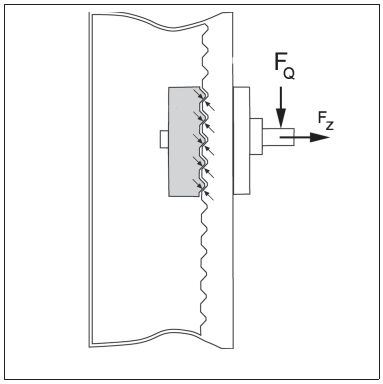




Channel Nut NT HZ 41 HCP

Group: 1814

Application

Suitable for Channels MS 41 HCP.

Technical Data

	M10	M12	M16
Tightening torque 8.8 [1] [Nm]	40	80	80

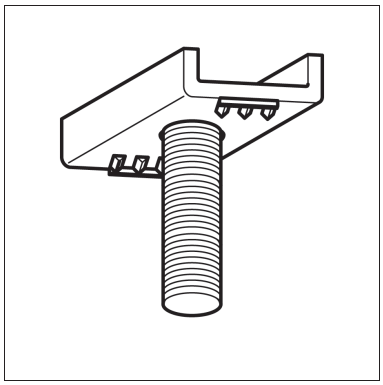
[1] Using lower steel classes, the value are to be reduced accordingly.

Channel thickness [mm]	M10 FZ ≤ [kN]	M12 FZ ≤ [kN]	M16 FZ ≤ [kN]		M10 FQ ≤ [kN]	M12 FQ ≤ [kN]	M16 FQ ≤ [kN]
1.5	6.0	7.5	7.5		5.5	7.5	6
2.0	7.5	10	10		5.5	9	6
2.5	8.5	11	11		5.5	9	6
3.0	8.5	13	13		5.5	9	6

Note: The permissible load capacities of the channels are to be respected.

Material: Steel, HCP

Type	W [kg]	Quantity [pack]	Part number
HZ 41-M10	0.03	50	**162115**
HZ 41-M12	0.06	50	**162133**
HZ 41-M16	0.05	50	**182279**



T-Head Bolt TBO HZ 41 HCP

Group: 1809

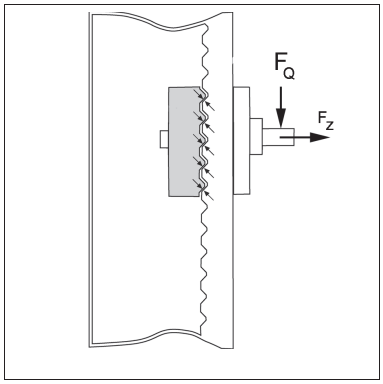
Application

To be used with Channels MS 41 HCP.

Technical Data

Type	Tightening torque M_{dmax} [Nm]	Permissible bending moment [1] [Nm]
HZ 41 M10	18.0	10.0
HZ 41 M12	32.0	17.5

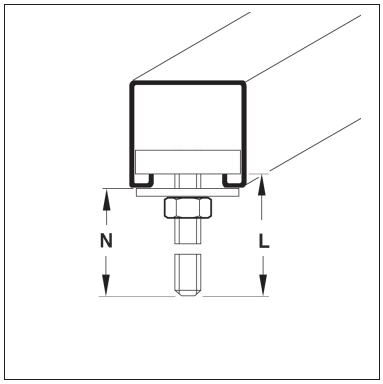
[1] The actual bending moment shouldn't exceed the bending moment of the channel acting laterally.



Material thickness channel [mm]	FZ ≤ [kN]	FQ ≤ [kN]
1.5	4.7	2.9
2.0	5.8	3.4
2.5	5.8	4.1
3.0	5.8	4.4

Notice: The permissible bearing capacity of the channels is to be respected.

Material:
T-Head: Class 5.6, HCP
Threaded rod: Class 4.8, HCP



Type	Length L [mm]	Available length of thread [mm]	W [kg]	Quantity [pack]	Part number
HZ 41 M10 x 35	40	35	0.05	50	**111453**
HZ 41 M12 x 35	40	35	0.06	50	**111454**

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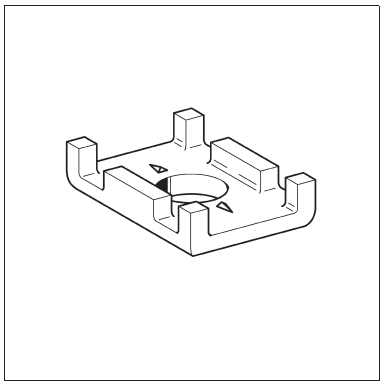


Holding Bracket HK HCP

Group: 1828

Application

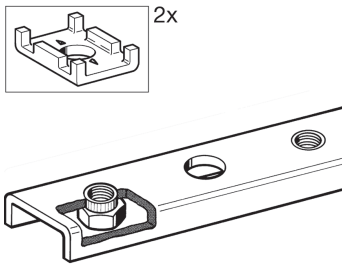
Safety element for Sikla Channels to be used instead of simple washers. The Holding Bracket prevents the edges along the opening of the channels from bending, and ensures optimum load distribution. When loads are imposed along the Channels, Holding Brackets HK 41 provide for additional safety due to embossed teeth, which penetrate the channel.
Suitable for single and double channels.

Special blanking guarantee high safety and shear forces after reaching form closure, especially for bolted through connecting elements.

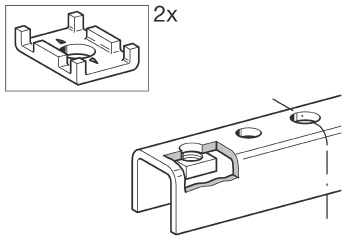
Technical Data

Material: Steel, HCP

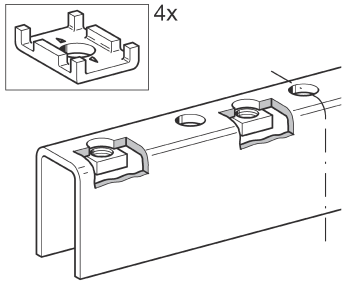
Type	Suitable for Sikla channels of width [mm]	Bore [mm]	W [kg]	Quantity [pack]	Part number
41/10	41	11	0.06	50	**179606**
41/12	41	13	0.07	50	**179615**
41/16	41	17	0.07	50	**179624**



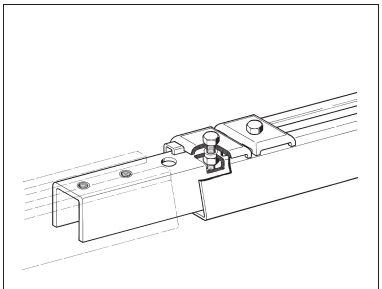
SK 41/21-31



SK 41/41-45



SK 41/52 to 41-75/75



Application example

Channel Connector SK HCP

Group: 1853

Application

Channel Connector for easy and safe extension or joining of Sikla Channels on site or for pre-assembly in workshops. The overall design ensures that there is no static weak point near the Channel Connector when connecting single channels. For single channels, the figures for channels are applicable.

Scope of delivery

Holding Brackets HK 41 and Hexagon Bolts are supplied in bulk.

Installation

To guarantee the static values, the supplied elements have to be used. For extension of double channels, see advice brochure "Installation Guidelines".

Technical Data

Material: Steel, HCP

Type	For channel	Overall length [mm]	W [kg]	Quantity [pack]	Part number
SK 41/21-31	41/21/1.5 - 41/31/2.0	160	0.40	10	**186680**
SK 41/41-45	41/41/2.0 - 41/45/2.5	160	0.59	10	**195642**
SK 41/52	41/52/2.5	260	1.10	10	**195659**
SK 41/62	41/62/2.5	260	1.35	10	**195666**
SK 41-75/65	41-75/65/3.0	260	1.41	10	**195673**
SK 41-75/75	41-75/75/3.0	260	1.61	10	**195680**

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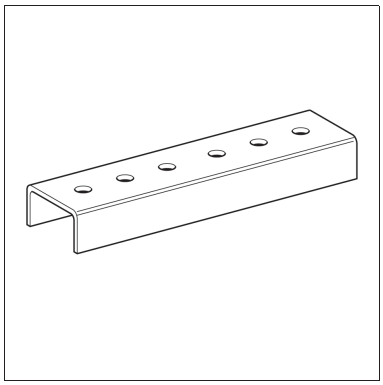
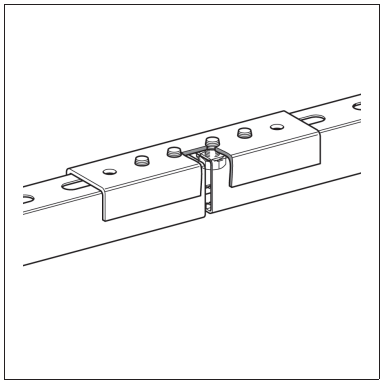




Channel Connector SK-L HCP

Group: 1853

Application

Element for connecting Channels. The multiple bearing of the Channel is to be secured. The Channel Connector should not to be used between the last two bearing points. In combination with Channels > 41/21 the admissible limit has to be respected.

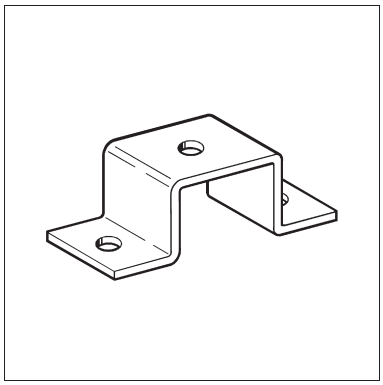
Installation

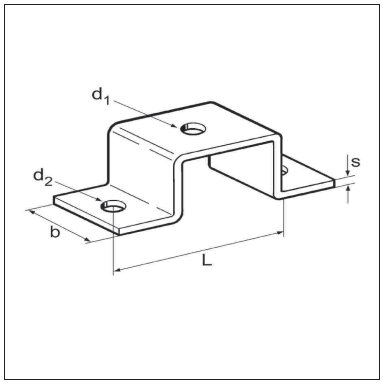
Position the Channel Connector on the back of the channel and bolt together the channel ends (through the channel slots) by means of each two Self Forming Screws FLS F 80.

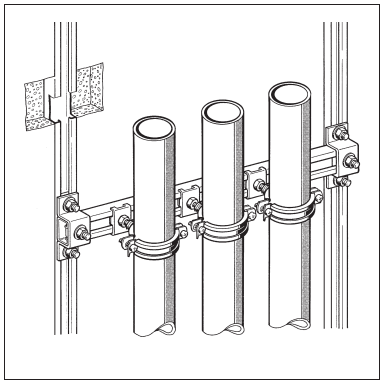
Technical Data

Max. adm. limit/ flexion: 300 Nm
Material: Steel S235 JR, HCP

Type	For channel	Channel height h_{max} [mm]	Overall length [mm]	W [kg]	Quantity [pack]	Part number
SK-L	41	62	180	0.36	10	**198971**







Channel Bracket SH HCP

Group: 1812

Application

Comprehensive bracing construction of Sikla Channels:
- directly to the building structure or
- onto other channels for frame construction

Technical Data

Material: Steel, HCP

Type	b x s [mm]	L [mm]	Ø d_1 [mm]	Ø d_2 [mm]	W [kg]	Quantity [pack]	Part number
SH 41/21	40 x 4	80	11	11	0.16	50	**189992**
SH 41/41	40 x 4	80	11	11	0.21	50	**183116**
SH 41/41 D	40 x 4	80	13	13	0.32	10	**183143**
SH 41/45	40 x 4	80	11	11	0.22	50	**183125**
SH 41/45 D	40 x 4	84	13	13	0.35	10	**183152**
SH 41-75/75	50 x 5	120	13	13	0.49	25	**183134**

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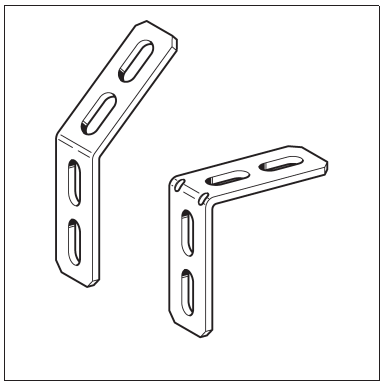
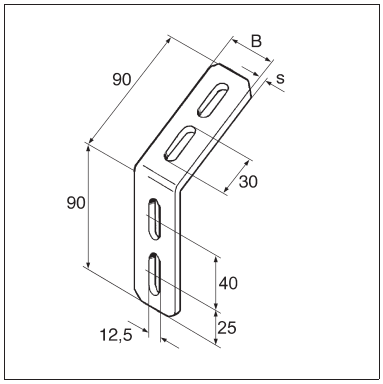
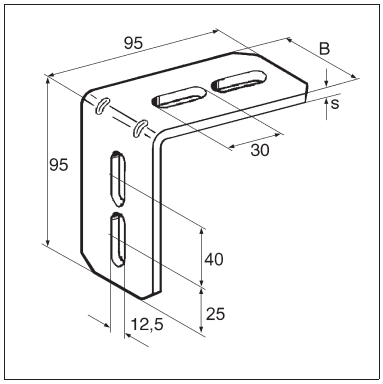






Fixing Bracket MW HCP

Group: 1826

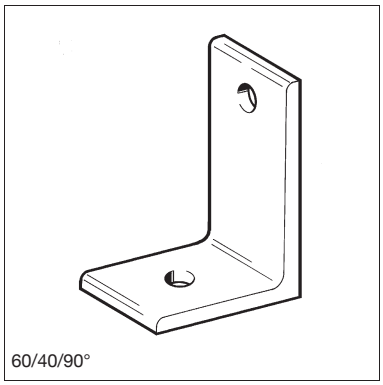
Application

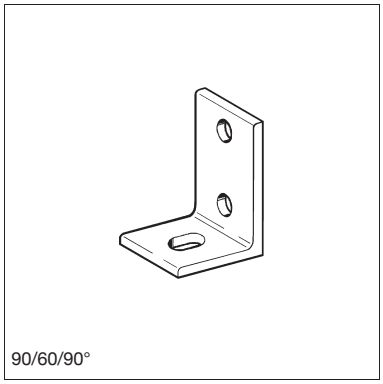
Suitable for Sikla Channels MS 41.
Useful addition to Support Brackets for integration in crossbars and other structures composed of hot-dipped galvanised channels.

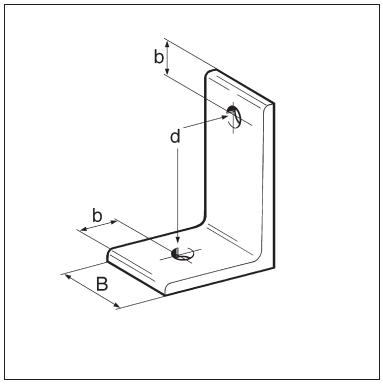
Technical Data

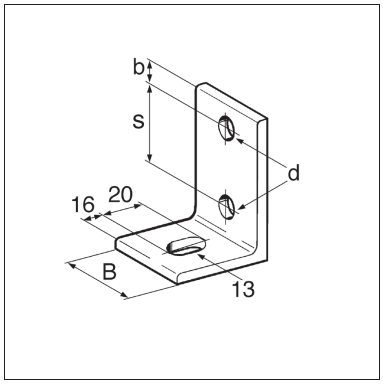
Material: Steel, HCP

Type	B [mm]	s [mm]	W [kg]	Quantity [pack]	Part number
90/90/30°	40	4	0.23	25	**194041**
90/90/45°	40	5	0.23	25	**162045**
95/95/90°	40	5	0.23	25	**162036**


60/40/90°


90/60/90°





Fixing Bracket MW S HCP

Group: 1826

Application

Designed for general mounting purposes as a direct lateral attachment link integrated in binding and bridging beams of concrete or wood, and for similar applications. It may serve as a connecting bracket for framework structures consisting of channels.

Technical Data

Type	Working load	Sprinkler System
60/40/90°	5.0 kN	≤ DN 150
90/60/90°	5.0 kN	≤ DN 150

Material: Steel, HCP

Type	Angle steel profile DIN 1029	B [mm]	b [mm]	d [mm]	s [mm]	W [kg]	Quantity [pack]	Part number
60/40/90°	60/40/6	40	20	13	-	0.18	25	**162063**
90/60/90°	90/60/6	40	15	13	50	0.26	25	**162072**

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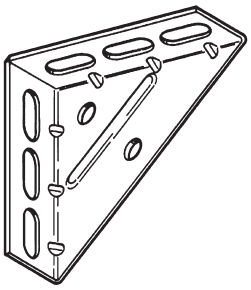
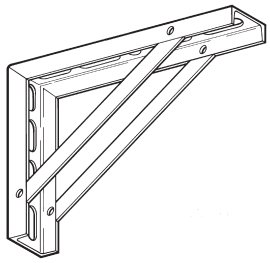
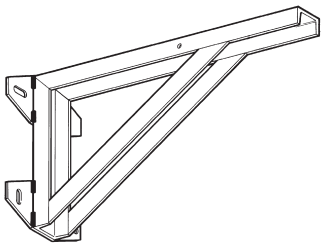


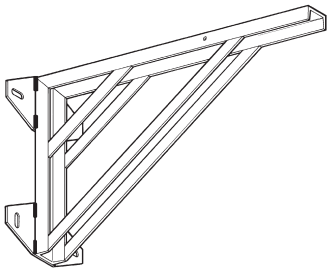
100/100



300/200



725/400



880/550

Support Bracket WK HCP

Group: 1826

Application

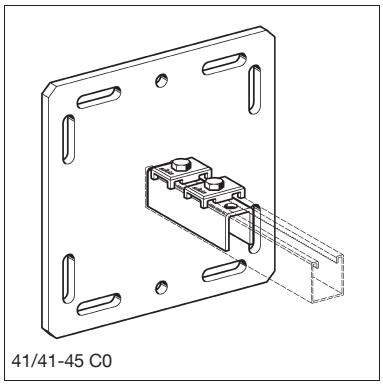
Sikla Support Brackets may be used for wall, floor and overhead pipe installations. Depending on the site, pipes may lie on the support bracket (U-bolt), be arranged in vertical position or be suspended (Grub Screws).
In combination with bolted-on channels, the support brackets offer a wide range of possibilities for cantilever arrangements. In addition, the load capacity of crossbars can be increased by fixing them onto Support Brackets.

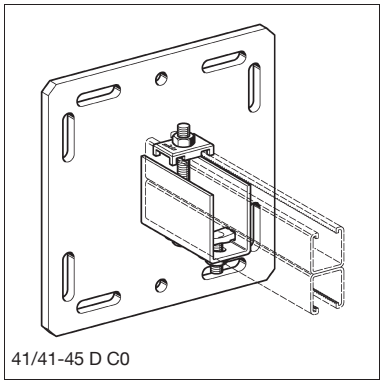
Technical Data

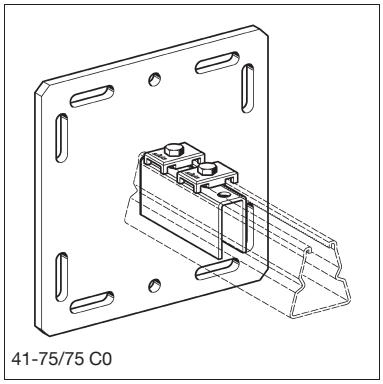
Material: Steel, HCP

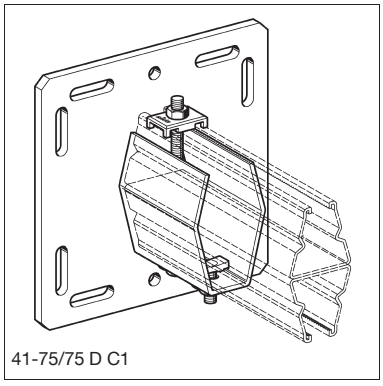
For further details regarding dimensions and loads, see chapter "Brackets" (galvanised versions).

Type	Channel	W [kg]	Quantity [pack]	Part number
100/100-40	-	0.23	25	**163930**
150/150	-	0.60	25	**181685**
300/200	U 50/25	2.28	1	**162531**
550/350	U 50/25	4.62	1	**162610**
725/400	U 65/42	12.72	1	**151041**
880/550	U 65/42	18.43	1	**151050**


41/41-45 C0


41/41-45 D C0


41-75/75 C0


41-75/75 D C1

End Support WBD C HCP

Group: 1856

Application

In combination with Sikla Channels MS 41/41 or 41-75/75, End Support WBD is ideal for setting up support structures attached to walls, floors and ceilings and for direct fixing to steel beams. In combination with Joining Plate AP, a fixing to beams with flange width > 120 mm is possible.
Version 41-75/75 D C1 allows a direct fixing to beams with respective flange widths.

Scope of delivery

Base plate with welded U-profile
Accessories (pre-assembled):
- 2 Holding Brackets and 2 Hexagon Bolts, 2 welded hexagon nuts (WBD C for single channels)
- 1 Holding Bracket, 1 T-Bolt, nut, bolt and washer (WBD C for double channels)

Installation

Depending on the situation, different options are recommended:
a) Frictional connection to steel beams using Assembly Set P2 (C0) or P3 (C1).
b) Fixing to the building structure using at least 2 heavy-duty anchors M12 (C0) or M16 (C1). Please observe loads and approvals of anchors.

For ceiling mounting, the bolt connecting channel and end support must pass through both parts.

Technical Data

Type	For Sikla Channel	Dimensions of Base Plate [mm]	For beam width [mm]	Holes for
41/41-45 C0	41/41 41/45	220 x 220 x 12	80 - 120	M12
41-75/75 C0	41-75/75	220 x 220 x 12	80 - 120	M12
41/41-45 D C0	41/41 D 41/45 D	220 x 220 x 12	80 - 120	M12
41-75/75 D C1	41-75/75 D	340 x 340 x 12	100 - 200	M16

Material:
End Support WBD: Steel, HCP
Holding Bracket: Cast iron, HCP
Accessories: Steel, HCP

Type	W [kg]	Quantity [pack]	Part number
41/41-45 C0	5.09	1	**179498**
41-75/75 C0	4.74	1	**179507**
41/41-45 D C0	5.16	1	**179561**
41-75/75 D C1	12.32	1	**179579**

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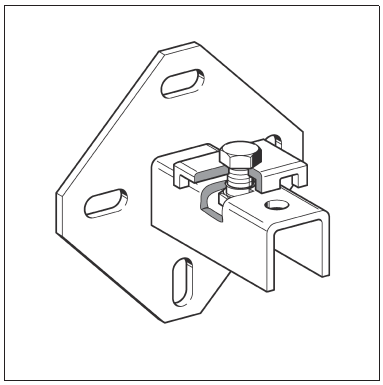
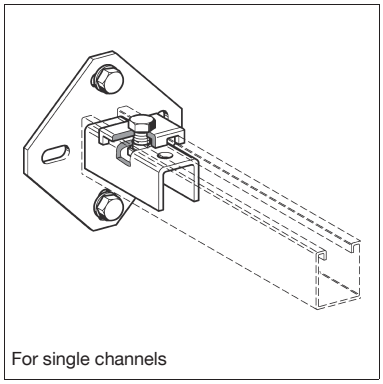
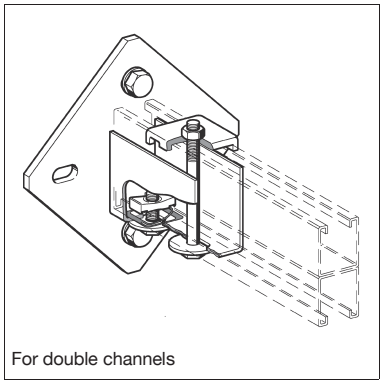
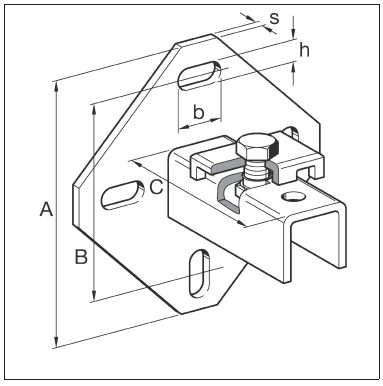




For single channels



For double channels



End Support WBD HCP

Group: 1856

Application

In combination with a Channel, End Support WBD is particularly suitable
- for setting up structures attached to walls, floors and ceilings
- as a base for frame structures made of Sikla Channels.

The generous dimensions and the diamond shape of the mounting plate provide for a high bending moment and safely stabilise lateral loads.

Installation

Normally, two anchors grouped opposite to each other and along the load axis are sufficient. Only in exceptional cases (e.g. tall uprights in frameworks) four anchors are required.

Tighening torque for hexagon bolts ≥ 40 Nm.

For ceiling mounting under high loads (up to 7.0 kN), we recommend the use of at least one fully traversing bolt for connecting the Channel to the End Support WBD (for examples see "Installation Guidelines").

Technical Data

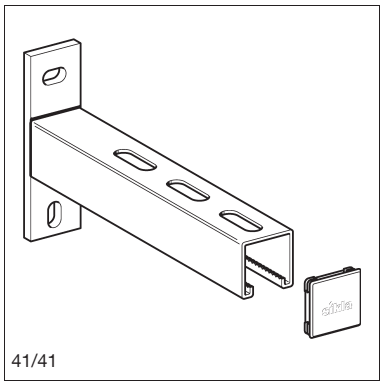
Type	Suitable for Sikla Channel	A [mm]	s [mm]	B [mm]	b [mm]	h [mm]	C [mm]
41/21-31	41/21/2.0 - 41/31/2.0	135	6	100	25	11	95
41/41-45	41/41/2.5	135	6	100	25	11	95
41/62	41/62/2,5	170	6	120	25	13	131
41/41-45 D	41/41/2.5 D	210	8	170	25	13	125

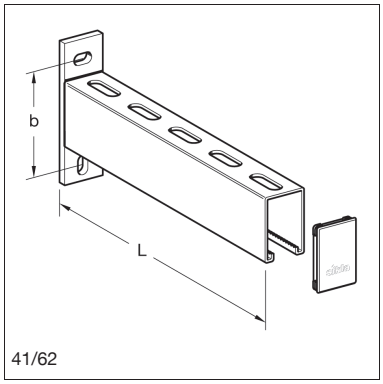
Working load for wall mounting:
See tables on load charts for End Support WBD in chapter "Brackets".
The figures apply on wall applications if two anchors of the load class as stated are used.

Working load for ceiling mounting:
The permissible maximum vertical load for ceiling mounting with Holding Bracket amounts to 2.0 kN. Using at least one traversing bolt (class 8.8) 7.0 kN.

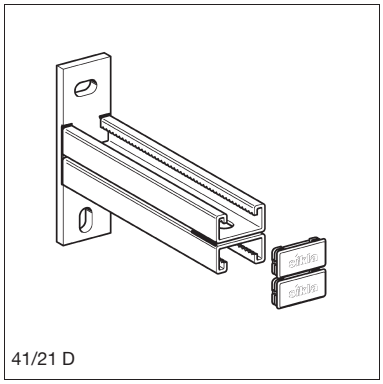
Material: Steel, HCP

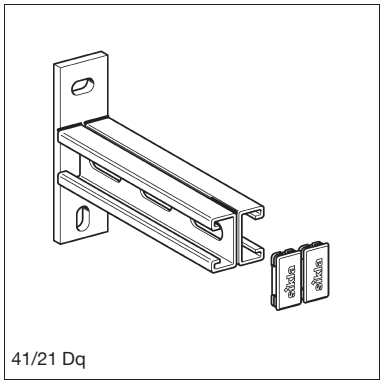
Type	W [kg]	Quantity [pack]	Part number
41/21-31	0.73	10	**198063**
41/41-45	0.83	10	**198070**
41/41-45 D	2.46	5	**198100**


41/41



41/62


41/21 D


41/21 Dq

Cantilever Bracket AK HCP

Group: 1854

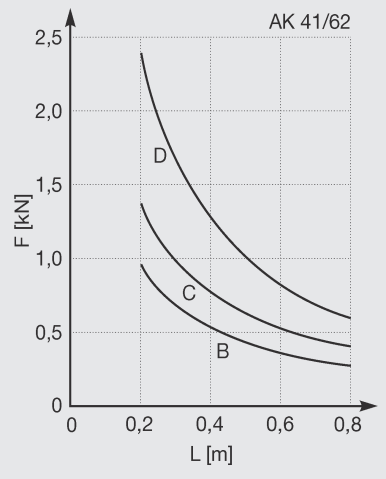
Application

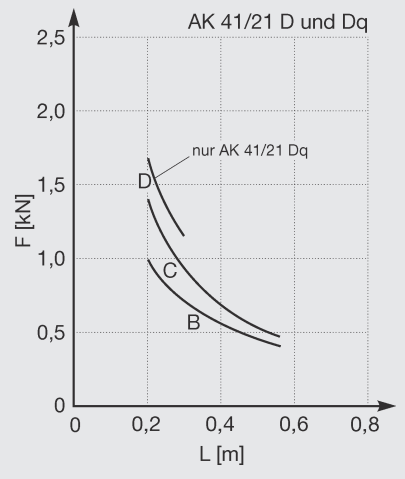
Ready-to-use bracket for mounting pipes to walls or other building structures.

Installation

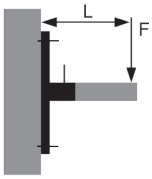
When used in combination with sliding elements, a tied rod is absolutely essential for absorbing the forces running along the centre line of the pipe.
For cantilever lengths > 500 mm we recommend the integration of a prop-up.

Technical Data





Anchor load classes
A = 1.5 kN
B = 2.5 kN
C = 3.5 kN
D = 6.0 kN



Restrictions
$\sigma_{zul} \leq 160$ N/mm²
$f_{perm} \leq L/150$ for $L > 450$ mm
$f_{perm} \leq 3$ mm for $L \leq 450$ mm

Material: Steel, HCP

Type	L [mm]	Wall plate [mm]	b [mm]	Dimensions of elongated hole [mm]	W [kg]	Quantity [pack]	Part number
41/41 - 320	320	134 x 40 x 8	100	13 x 18	0.95	10	**181667**
41/41 - 570	570	134 x 40 x 8	100	13 x 18	1.50	10	**181676**
41/41 - 820	820	134 x 40 x 8	100	13 x 18	2.00	1	**161479**
41/62 - 320	320	134 x 40 x 8	100	13 x 18	1.40	10	**180119**
41/62 - 570	570	134 x 40 x 8	100	13 x 18	2.25	10	**180128**
41/62 - 820	820	134 x 40 x 8	100	13 x 18	3.05	1	**180137**
41/21 D - 320	320	134 x 40 x 8	100	13 x 18	1.25	10	**180146**
41/21 D - 570	570	134 x 40 x 8	100	13 x 18	2.25	10	**180155**
41/21 Dq - 320	321	134 x 40 x 8	100	13 x 18	1.20	10	**180164**
41/21 Dq - 570	571	134 x 40 x 8	100	13 x 18	1.95	10	**190424**

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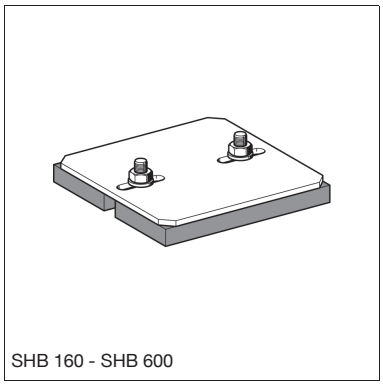


SHB 160 - SHB 600

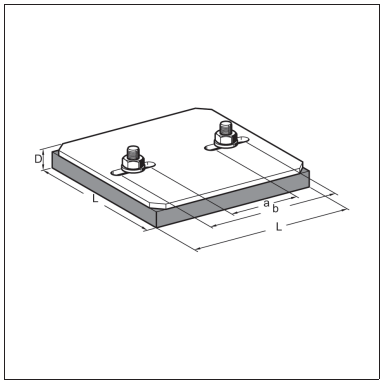
Insulated Foot Plate SHB HCP

Group: 1856

Application

Complete solution incl. protection pad for flat roofs and plastic sheets, as well as supply centres with laminated floor composition in basements.
In combination with the Sikla Assembly System, this element allows the realisation of arbitrarily compositions. The water-proof protection pad allows a secure and reliabe support with constant load spreading. Especially suitable for the assembly of aggregations, pipelines, ductings or travel paths.

Following elements could be assembled to the Insulated Foot Plate: Slide Elements, Mounting Plates, Support Brackets 150/150, Joints JOI 41 T, Channels MS 41, Cantilever Brackets, End Supports WBD for single channel.

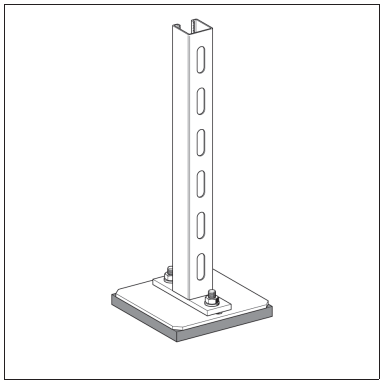


Installation

Unscrew the nuts, position the distance between the screws according to the slot pattern of the element to be connected and tighten screws.

Technical Data

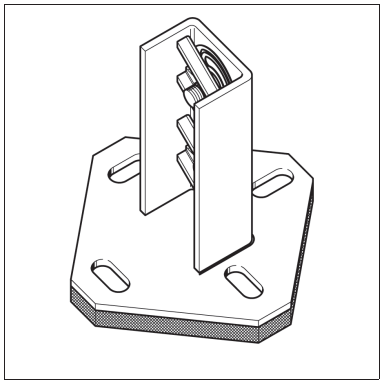
Statical E-module:	According to DIN 53513	0.8 - 0.9 N/mm²
Dynamic E-module:	According to DIN 53513	0.6 - 2.2 N/mm²
Compression set:	DIN 53572	approx. 4.5 % measured 30 min. after release at 50 % compression / 23°C after 72 hrs
Tensile strength:	DIN 53571	0.40 N/mm² min.
Ultimate elongation:	DIN 53571	70 % min.
Tear strength:	DIN 53515	3.4 N/mm² min.
Fire resistance:	DIN 4102	B2



Tests to determine friction values shall be carried out by the customer. Also the statics have to be verified by a qualified engineer.
Material: Steel, HCP, caoutchouc compound material

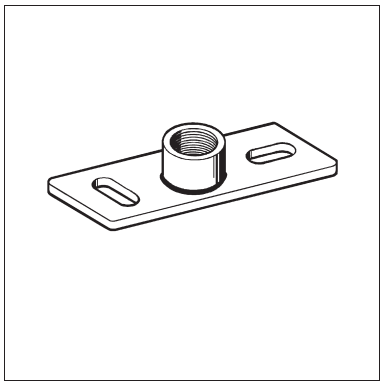
Type	L [mm]	a [mm]	b [mm]	D [mm]
SHB 160	164 x 164	65	131	20
SHB 300	304 x 304	65	131	20
SHB 450	454 x 454	65	131	21
SHB 600	604 x 604	65	131	23

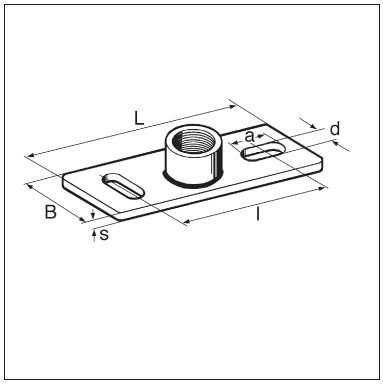
Type	Channel height h_{max} [mm]	Dimensions of the plate [mm]
SHB 41-1	41 - 62	110 x 110
SHB 41-2	41 - 62	160 x 160

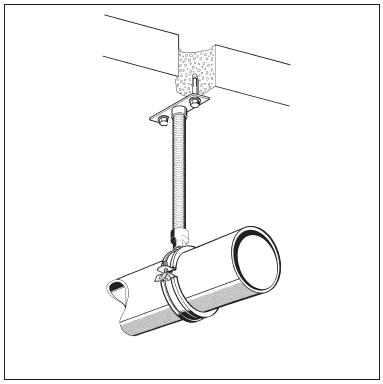


For other dimensions, see End Support WBD.

Type	W [kg]	Quantity [pack]	Part number
SHB 160	1.30	10	**113117**
SHB 300	4.50	1	**113118**
SHB 450	11.50	1	**113119**
SHB 600	26.50	1	**113120**
SHB 41-1	1.22	10	**198902**
SHB 41-2	2.30	5	**198919**







Mounting Plate GPL HCP

Group: 1827

Application

Element for fixation to wall, ceiling and floor for installations in M&E services.

Technical Data

Permissible anchor values may restrict the application.

Version / Type	Tension [kN]	Perm. bending moment* [Nm]	Max. lever arm [mm]	Welding method
Stabil M10	3.0	17.2	200	R
Stabil M12	3.0	29.6	300	R
Stabil M16	4.5	70.3	300	M
Stabil R $^1/_2$"	4.5	95.0	350	M

R = resistance welding
M = fusion welding

* Limitation due to the Mounting Plate or the load capacity of the Threaded Stud or the Threaded Tube.
$\sigma_{perm} \leq 160$ N/mm^2 $f_{perm} < 5$ mm

Material: Steel, HCP

Type	Dimension L x W x Th [mm]	Elongated hole d x a [mm]	Centre distance l [mm]	W [kg]	Quantity [pack]	Part number
Stabil M10	120 x 40 x 4	11 x 25	80	0.15	50	**112684**
Stabil M12	120 x 40 x 4	11 x 25	80	0.16	50	**112685**
Stabil M16	120 x 40 x 5	11 x 25	80	0.20	50	**112686**
Stabil $^1/_2$"	120 x 40 x 5	11 x 25	80	0.21	50	**112683**

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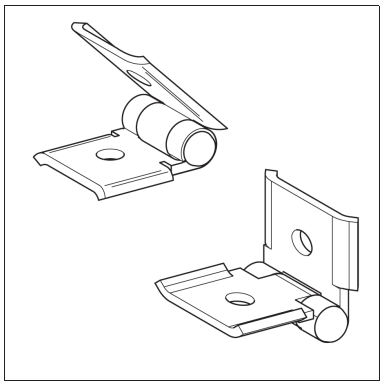
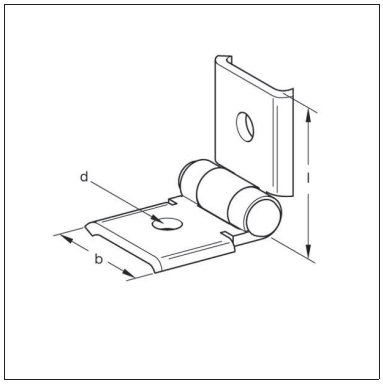
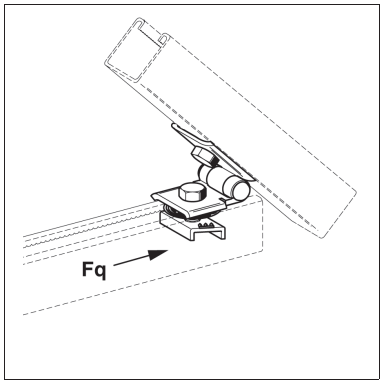
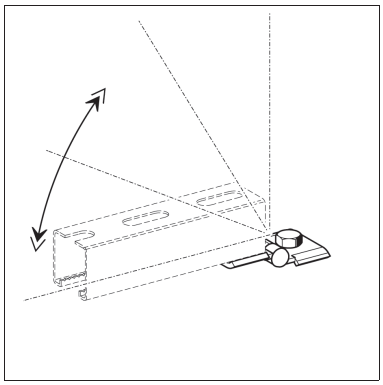








Joint 41 HCP

Group: 1842

Application

For connecting Channels MS 41 allowing for variable angle-adjustment ranging from 0° - 180°. Suitable for direct connection to the building structure and, in combination with channel, can be used as an angular support for bracketry.

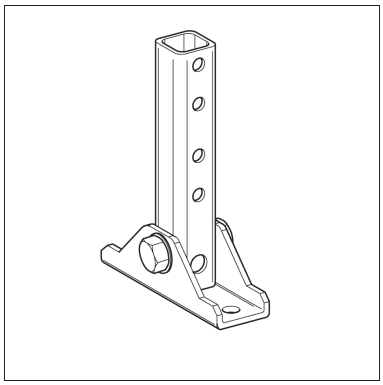
Installation

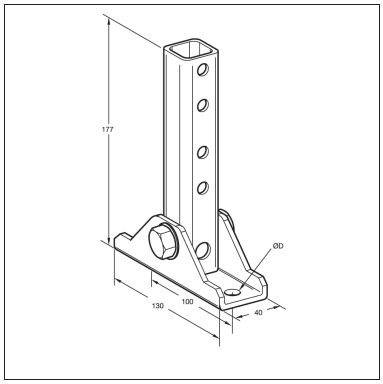
Connecting possibilities:
Back of the channel with Channel Nut HZ 41 and screw
Opening of the channel with Speed Nut CC 41 and screw

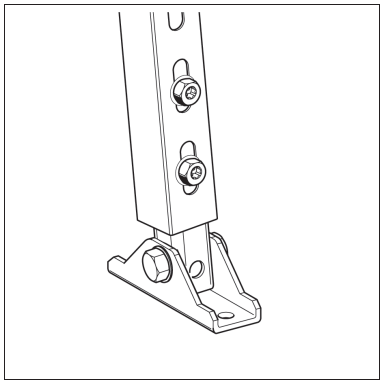
Technical Data

Nominal load:	Fq = 2.0 kN per juncture
Tightening torque:	50 Nm
Material:	Steel S235 JR, HCP

Type	d [mm]	b [mm]	l [mm]	W [kg]	Quantity [pack]	Part number
JOI 41 V	10.5	48	54	0.18	50	**198049**
JOI 41 Z	10.5	48	54	0.18	50	**199244**







Joint 41 T HCP

Group: 1842

Application

To be used for connecting Channels MS 41 to optionally bended structures such as tunnels, bended roof frames etc. under different angles. Especially suitable as brace support. Arrangement of the channel opening to all directions is possible.

Scope of delivery

Pre-assembled with captive screw and nut.

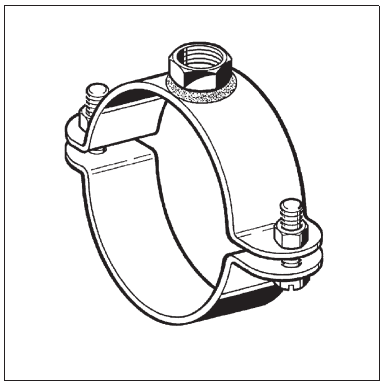
Installation

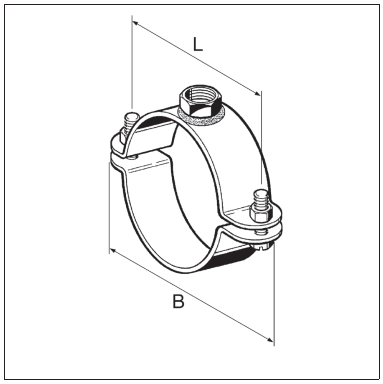
Fixation to walls, ceiling and floors by means of dowels. Adjustment of angle during assembly. Easy, fast and secure assembly of the channel with two Self Forming Screws FLS F 80.

Technical Data

Max. adm. load (vertical assembly to ceiling): 4.4 kN
Material: Steel S235 JR, HCP

Type	Ø D [mm]	W [kg]	Quantity [pack]	Part number
JOI 41 T	10.5	0.81	20	**197615**





Stabil D-1G HCP

Group: 1840

Application

For the installation of pipes required for all M&E services in industrial, residential and public buildings.

Scope of delivery

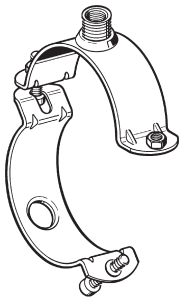
Two-parts pipe clamp with clamping bolts and nuts (supplied in loose form).

Technical Data

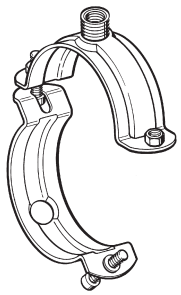
Size [mm]	Max. working load (tension)
15 - 72	4.0 kN
76 - 129	5.0 kN
133 - 173	8.0 kN
176 - 303	12.5 kN

Material: Steel, HCP

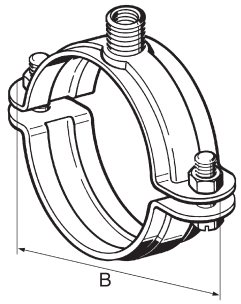
Size range [mm]	NB	Material [mm]	Thread connection	L [mm]	B [mm]	W [kg]	Quantity [pack]	Part number
15 - 19	3/8"	25 x 3	M10	42	64	0.12	50	**169130**
20 - 24	1/2"	25 x 3	M10	47	69	0.13	50	**169149**
25 - 30	3/4"	25 x 3	M10	53	75	0.13	50	**169158**
31 - 35	1"	30 x 3	M10	58	80	0.16	50	**167208**
40 - 45	1 1/4"	30 x 3	M10	68	90	0.19	50	**167226**
48 - 53	1 1/2"	30 x 3	M10	76	98	0.20	50	**167235**
54 - 59		30 x 3	M10	82	104	0.22	50	**163666**
60 - 65	2"	30 x 3	M10	88	110	0.22	50	**163675**
67 - 72		30 x 3	M10	95	117	0.24	50	**163684**
76 - 81	2 1/2"	30 x 3	M10	114	141	0.30	25	**163693**
82 - 87		30 x 3	M10	120	147	0.33	25	**163709**
88 - 93	3"	30 x 3	M10	126	153	0.34	25	**163718**
102 - 108		30 x 3	M10	141	168	0.38	25	**163727**
110 - 116	4"	30 x 3	M10	149	176	0.38	25	**163736**
124 - 129		30 x 3	M12	162	189	0.42	25	**163745**
133 - 140		40 x 4	M12	178	210	0.78	10	**163754**
140 - 148	5"	40 x 4	M12	186	218	0.82	10	**163763**
149 - 155		40 x 4	M12	193	225	0.85	10	**163772**
159 - 165		40 x 4	M12	203	235	0.88	10	**163781**
167 - 173	6"	40 x 4	M12	211	243	0.92	10	**163790**
176 - 184		40 x 4	M12	239	271	1.02	10	**163806**
188 - 194		40 x 4	M12	249	281	1.04	10	**163815**
199 - 205		40 x 4	M12	260	292	1.08	10	**163824**
207 - 216		40 x 4	M12	271	303	1.12	10	**163833**
219 - 225	8"	40 x 4	M12	280	312	1.15	10	**163842**
244 - 250		40 x 4	M12	305	337	1.26	10	**163851**
267 - 273	10"	40 x 4	M12	327	359	1.36	10	**163860**
278 - 284		40 x 4	M12	338	370	1.40	10	**163879**
297 - 303		40 x 4	M12	357	389	1.49	10	**163888**



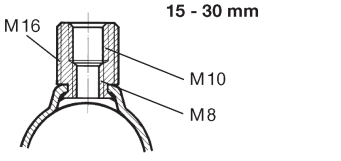
10 - 72 mm



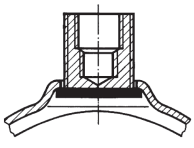
76 - 129 mm



133 - 316 mm



31 - 72 mm:
M16/M10/M8
76 - 129 mm:
⅜"/M12/M10
133 - 316 mm:
½"/M16/M12



Stabil D-3G HCP

Group: 1844

Application

For the installation of pipes required for all M&E services in industrial, residential and public buildings.

Scope of delivery

Sizes 15 to 129 mm are equipped with welded nuts for the clamping bolts. On the joint side, the clamping bolt is pre-assembled; the clamping bolt on the opposite side is mounted into the bore hole and retained by a plastic washer, thus preventing any accidental unscrewing.

For sizes 133 and larger the clamping bolts and the required nuts are supplied in loose form.

With welded in 3G triple thread nut; without sound absorption lining. For further adapter-based connection options via the external thread of the 3G triple thread nut, see product "Adapter AD f/f" (this chapter).

Technical Data

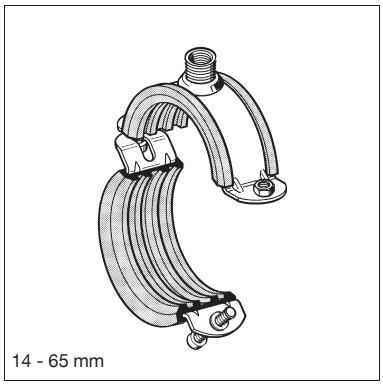
Size [mm]	Max. working load (tension)
10 - 72	4,0 kN
76 - 129	5,0 kN
133 - 173	8,0 kN
176 - 316	12,5 kN

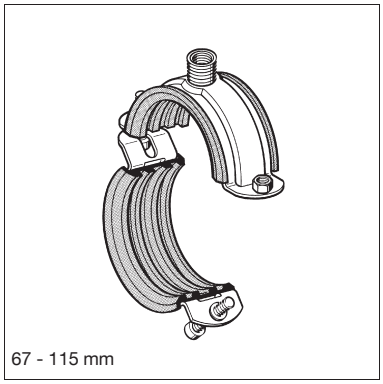
Material: Steel, HCP

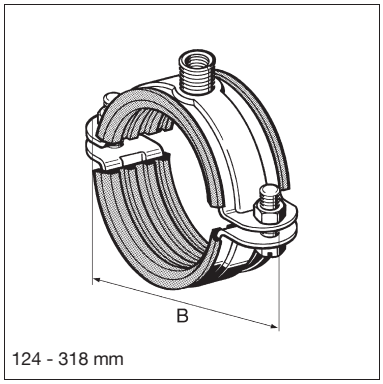
Approvals

VdS-Approval No. G4920027, * = FM Approval

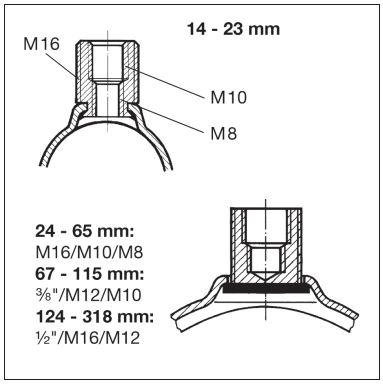
Size range [mm]	NB	Material W x th [mm]	Thread connection	B [mm]	W [kg]	Quantity [pack]	Part number
10 - 14		25 x 2.0	M16/M10/M8	60	0.07	50	**113832**
15 - 19	3/8"	25 x 2.0	M16/M10/M8	57	0.07	50	**112216**
20 - 24	1/2"	25 x 2.0	M16/M10/M8	62	0.08	50	**112217**
25 - 30	3/4"	25 x 2.0	M16/M10/M8	68	0.08	50	**112218**
31 - 35	1"	30 x 2.5	M16/M10/M8	75	0.12	50	**112219**
35 - 41		30 x 2.5	M16/M10/M8	81	0.13	50	**113833**
40 - 45	1 1/4"	30 x 2.5	M16/M10/M8	85	0.13	50	**112220**
48 - 53	1 1/2"	30 x 2.5	M16/M10/M8	93	0.15	50	**112221**
54 - 59		30 x 2.5	M16/M10/M8	104	0.16	50	**112222**
60 - 65	2"	30 x 2.5	M16/M10/M8	110	0.17	50	**112223**
67 - 72		30 x 2.5	M16/M10/M8	117	0.18	50	**112224**
76 - 81	2 1/2"	30 x 3.0	3/8"/M12/M10	137	0.28	25	**112225**
82 - 87		30 x 3.0	3/8"/M12/M10	143	0.29	25	**112226**
88 - 93	3"	30 x 3.0	3/8"/M12/M10	149	0.31	25	**112227**
102 - 108		30 x 3.0	3/8"/M12/M10	163	0.34	25	**112228**
110 - 116	4"	30 x 3.0	3/8"/M12/M10	171	0.36	25	**112229**
124 - 129		30 x 3.0	3/8"/M12/M10	184	0.39	25	**112230**
133 - 140		40 x 4.0	1/2"/M16/M12	210	0.74	10	**112231**
140 - 148	5"	40 x 4.0	1/2"/M16/M12	218	0.76	10	**112232**
149 - 155		40 x 4.0	1/2"/M16/M12	225	0.81	10	**112233**
159 - 165		40 x 4.0	1/2"/M16/M12	235	0.82	10	**112234**
167 - 173	6"	40 x 4.0	1/2"/M16/M12	243	0.85	10	**112235**
176 - 184		40 x 4.0	1/2"/M16/M12	255	0.95	10	**112236**
188 - 194		40 x 4.0	1/2"/M16/M12	265	0.98	10	**112237**
199 - 205		40 x 4.0	1/2"/M16/M12	276	1.03	10	**112238**
207 - 216		40 x 4.0	1/2"/M16/M12	287	1.07	10	**112239**
219 - 225	8"	40 x 4.0	1/2"/M16/M12	296	1.11	10	**112240**
244 - 250		40 x 4.0	1/2"/M16/M12	321	1.23	10	**112242**
267 - 273	10"	40 x 4.0	1/2"/M16/M12	344	1.25	10	**112244**
278 - 284		40 x 4.0	1/2"/M16/M12	355	1.35	10	**112245**
297 - 303		40 x 4.0	1/2"/M16/M12	374	1.42	10	**112246**
310 - 316		40 x 4.0	1/2"/M16/M12	387	1.47	10	**112247**


14 - 65 mm


67 - 115 mm



124 - 318 mm



Pipe Clamp Stabil D-3G w/lining HCP

Group: 1843

Application

Pipe Clamp for the installation of pipes required for all M&E services in industrial buildings. Pipe clamp with sound absorption lining suitable for sound proof pipe fixation according to DIN 4109.

Scope of delivery

Sizes 14 to 115 mm are equipped with articulation and welded-on nuts for the clamping bolts. On the joint side, the clamping bolt is pre-assembled; the clamping bolt on the opposite side is mounted into the bore hole and retained by a plastic washer, thus preventing any accidental unscrewing.
For sizes 124 mm and larger the clamping bolts and nuts required are supplied in bulk. For further connecting options with Adapters, see product "Adapter AD f/f" (this chapter).

Technical Data

Size [mm]	Max. perm. load (tension)	Tightening torque [Nm]
14 - 23	1.8 kN	2
24 - 115	2,0 kN	3
124 - 162	2.9 kN	5
165 - 318	8.0 kN	10

The max. permissible load is calculated using specific statistical methods relating to break loads and is designed to restrict deflection to 1.5 mm or 2 % of the maximum applicable clamping diameter.

Perm. load $FZ_{perm,fi}$ in case of fire

Size range [mm]	FWD 30 [N]	FWD 60 [N]	FWD 90 [N]	FWD 120 [N]	Deformation δ_{max} [mm]	Thread ≥
14 - 23	380	200	140	-	49	M10
24 - 65	500	250	170	120	44	M10
67 - 115	1000	650	500	400	96	M10
124 - 162	2200	1200	850	600	96	M12
165 - 305	2400	1400	1000	850	104	M12

Material:

Pipe Clamp:	Steel, HCP
Sound absorption lining:	SBR/EPDM, black glued-in(for rubber profiles see chapter "Sound Absorption Elements")

Approvals

This product has been awared the RAL quality mark "pipe supports" and "fire-tested pipe supports" and is subject to continuous external monitoring according to RAL GZ-655.

* = no quality mark

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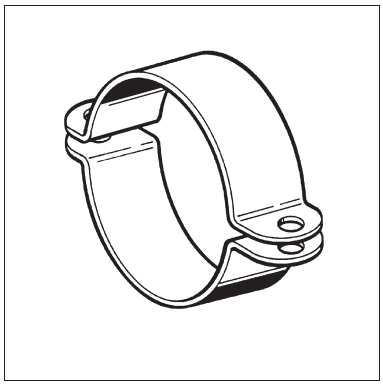
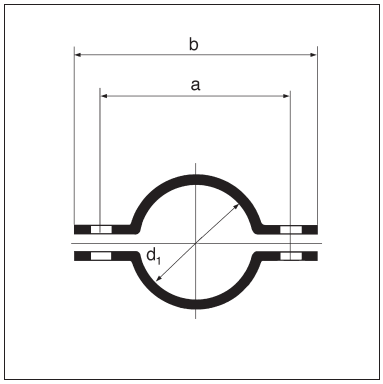
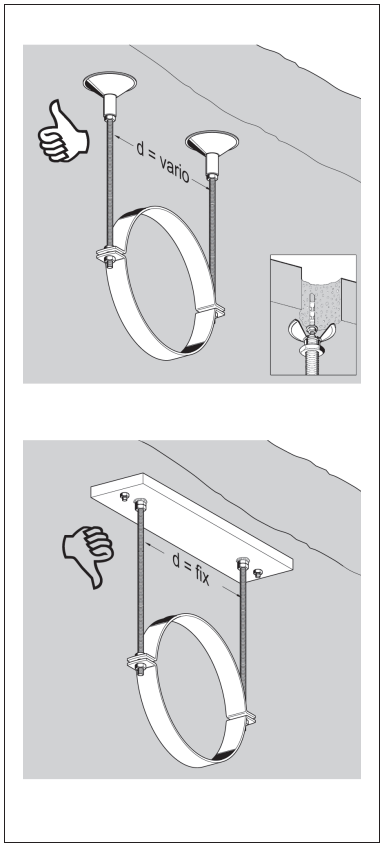
Size range [mm]	NB	Material W x th [mm]	Thread connection	B [mm]	W [kg]	Quantity [pack]	Part number
14 - 18	3/8"	25 x 2.0	M16/M10/M8	62	0.08	50	**112249**
19 - 23	1/2"	25 x 2.0	M16/M10/M8	68	0.09	50	**112250**
24 - 28	3/4"	30 x 2.5	M16/M10/M8	75	0.12	50	**112251**
29 - 33	1"	30 x 2.5	M16/M10/M8	81	0.14	50	**112252**
33 - 37		30 x 2.5	M16/M10/M8	85	0.15	50	**112253**
40 - 45	1 1/4"	30 x 2.5	M16/M10/M8	93	0.16	50	**112254**
47 - 52	1 1/2"	30 x 2.5	M16/M10/M8	104	0.18	50	**112255**
53 - 58		30 x 2.5	M16/M10/M8	110	0.19	50	**112256**
60 - 65	2"	30 x 2.5	M16/M10/M8	117	0.21	25	**112257**
67 - 72		30 x 3.0	3/8"/M12/M10	144	0.31	25	**112258**
73 - 78	2 1/2"	30 x 3.0	3/8"/M12/M10	150	0.33	25	**112259**
79 - 85		30 x 3.0	3/8"/M12/M10	156	0.34	25	**112260**
88 - 93	3"	30 x 3.0	3/8"/M12/M10	164	0.37	25	**112261**
100 - 106		30 x 3.0	3/8"/M12/M10	178	0.40	25	**112264**
108 - 115	4"	30 x 3.0	3/8"/M12/M10	187	0.43	25	**112265**
124 - 129		40 x 4.0	1/2"/M16/M12	210	0.86	10	**112266**
131 - 137		40 x 4.0	1/2"/M16/M12	218	0.90	10	**112267**
138 - 144	5"	40 x 4.0	1/2"/M16/M12	225	0.94	10	**112268**
148 - 154		40 x 4.0	1/2"/M16/M12	235	0.98	10	**112269**
156 - 162		40 x 4.0	1/2"/M16/M12	243	1.02	10	**112270**
165 - 171	6"	40 x 4.0	1/2"/M16/M12	255	1.08	10	**112271**
177 - 183		40 x 4.0	1/2"/M16/M12	265	1.18	10	**112272**
188 - 194		40 x 4.0	1/2"/M16/M12	276	1.22	10	**112273**
196 - 203		40 x 4.0	1/2"/M16/M12	287	1.29	10	**112274**
205 - 214		40 x 4.0	1/2"/M16/M12	296	1.32	10	**112275**
219 - 225	8"	40 x 4.0	1/2"/M16/M12	307	1.38	10	**112276**
244 - 250		40 x 4.0	1/2"/M16/M12	332	1.52	10	**112278**
267 - 273	10"	40 x 4.0	1/2"/M16/M12	355	1.60	10	**112280**
278 - 284		40 x 4.0	1/2"/M16/M12	366	1.67	10	**112281**
299 - 305		40 x 4.0	1/2"/M16/M12	387	1.76	10	**112282**
307 - 318 *		40 x 4.0	1/2"/M16/M12	400	1.83	10	**112283**







Pipe Clamp Stabil RB-A HCP

Group: 1860

Application

For particularly high static requirements in plant construction. Design similar to DIN 3567. The perforations on both sides allow the application of standardised bolts and threaded nuts out of the Sikla product range.

Scope of delivery

Two-piece pipe clamp delivered without bolts.
For suitable bolts see product "Hexagon Bolt SKT HCP" (this chapter).

Technical Data

Adm. load valid with fixation on both sides

Size [mm]	Max. adm. load (tension) [kN]
13 - 49	11.0
57 - 89	15.5
90 - 169	22.0
188 - 610	42.0

The max. perm. load capacity of connected parts (e.g. anchors) shall be considered.

The max. adm. load capacity is determined by the application of statistical methods, resulting from the breaking loads, under oberservance of a max. adm. deformation of 1.5 mm or 2% of the max. stretchable pipe dia.

Material: Steel, HCP

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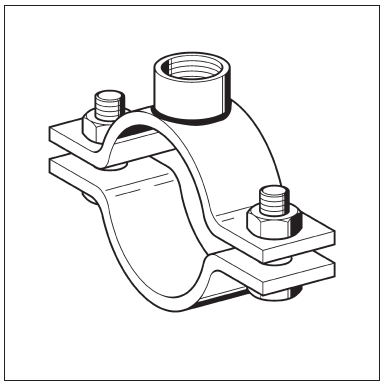
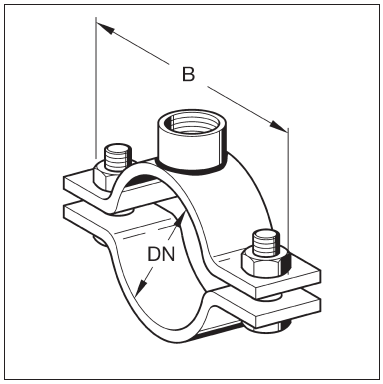
Size d_1 [mm]	Size range [mm]	Material W x th [mm]	Recommended clamping bolts	a [mm]	b [mm]	W [kg]	Quantity [pack]	Part number
18	13 - 18	30 x 5.0	M10 x 40	54	83	0.17	25	**112790**
22	17 - 22	30 x 5.0	M10 x 40	56	85	0.18	25	**112791**
27	23 - 27	30 x 5.0	M10 x 40	63	92	0.20	25	**112792**
34	30 - 34	30 x 5.0	M10 x 40	71	100	0.22	25	**112793**
38	34 - 38	30 x 5.0	M10 x 40	76	105	0.24	25	**112794**
44	40 - 44	30 x 5.0	M10 x 40	83	112	0.26	25	**112795**
49	45 - 49	30 x 5.0	M10 x 40	88	117	0.28	25	**112796**
61	57 - 61	40 x 5.0	M12 x 40	106	139	0.42	25	**112797**
70	66 - 70	40 x 5.0	M12 x 40	116	149	0.46	25	**112798**
77	73 - 77	40 x 5.0	M12 x 40	123	156	0.53	25	**112799**
89	85 - 89	40 x 5.0	M12 x 40	135	168	0.52	25	**112800**
104	90 - 104	50 x 5.0	M12 x 60	146	179	0.75	10	**112801**
109	103 - 109	50 x 5.0	M12 x 60	155	188	0.83	10	**112802**
115	109 - 115	50 x 5.0	M12 x 60	161	194	0.87	10	**112803**
133	119 - 133	50 x 5.0	M12 x 60	176	209	0.92	10	**112804**
140	134 - 140	50 x 5.0	M12 x 60	187	220	1.01	10	**112805**
162	156 - 162	50 x 5.0	M12 x 60	209	242	1.15	10	**112806**
169	163 - 169	50 x 5.0	M12 x 60	216	249	1.18	10	**112807**
194	188 - 194	50 x 8.0	M12 x 60	252	285	2.17	1	**112808**
220	214 - 220	50 x 8.0	M12 x 60	279	312	2.39	1	**112809**
254	248 - 254	50 x 8.0	M16 x 80	320	363	2.81	1	**112810**
267	261 - 267	50 x 8.0	M16 x 80	333	376	2.94	1	**112811**
273	265 - 273	60 x 8.0	M16 x 80	339	382	3.56	1	**112812**
324	316 - 324	60 x 8.0	M16 x 80	390	433	4.12	1	**112813**
356	350 - 356	60 x 8.0	M16 x 80	422	465	4.36	1	**112814**
368	360 - 368	60 x 8.0	M16 x 80	434	477	4.67	1	**112815**
407	402 - 407	70 x 8.0	M16 x 80	473	516	5.94	1	**112816**
419	412 - 419	70 x 8.0	M16 x 60	485	528	6.32	1	**112817**
457	450 - 457	70 x 8.0	M16 x 80	523	566	6.87	1	**112818**
508	501 - 508	70 x 8.0	M16 x 80	575	618	7.32	1	**112819**
521	512 - 521	70 x 8.0	M16 x 80	588	631	7.86	1	**112820**
535	529 - 535	70 x 8.0	M16 x 80	602	645	7.93	1	**112821**
610	603 - 610	70 x 8.0	M16 x 80	677	720	8.79	1	**112822**





Pipe Clamp Stabil I-$^1/_2$" HCP

Group: A022

Application
Heavy pipe clamp for industrial application.

Scope of delivery
Two-piece pipe clamp with all around welded $^1/_2$" nut with clamping bolts and nuts.

Installation
Suitable for single-point fixing directly with $^1/_2$" threaded tube or connected by respective adapters up to 1" threaded tube.

Technical Data
Material:
Clamp: Steel, HCP
Bolts: Steel, class 8.8
Nuts: Steel, class 8

Type	Material b x s [mm]	Clamping screws	B [mm]
21	25 x 5	M8 x 25	75
27	25 x 5	M8 x 25	81
34	30 x 5	M8 x 25	88
43	30 x 5	M10 x 30	115
49	30 x 5	M10 x 30	119
61	30 x 5	M10 x 30	131
77	30 x 5	M12 x 35	158
89	30 x 5	M12 x 35	171
115	40 x 8	M16 x 50	218

Type	For pipe [NB]	W [kg]	Quantity [pack]	Part number
21	15	0.28	25	**188147**
27	20	0.23	25	**188156**
34	25	0.32	25	**188165**
43	32	0.40	25	**188174**
49	40	0.38	25	**188183**
61	50	0.60	25	**188192**
77	65	0.68	25	**188201**
89	80	0.74	25	**188210**
115	100	1.03	10	**188219**

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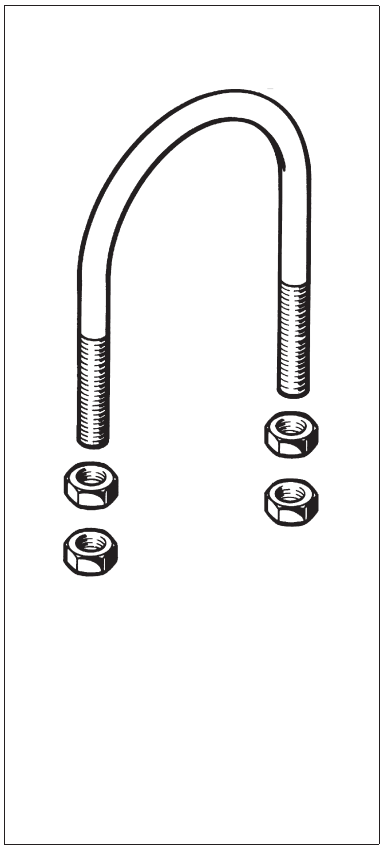
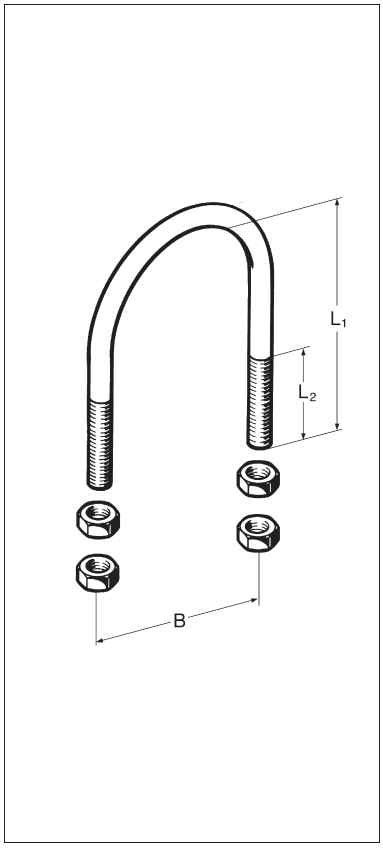




U Bolt RUB 3570 A HCP

Group: 1810

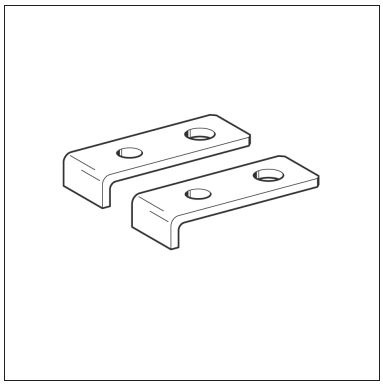
Application
For pipeline systems in industrial and residential buildings and Sprinkler installations according to VdS and FM standards.
For horizontal and vertical pipelines, the U-Bolts are applied as Fixed Points and as Guiding Supports.

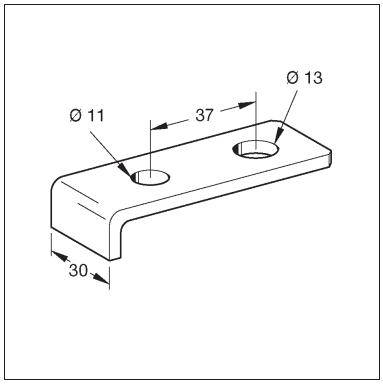
Scope of delivery
Four hexagon nuts included in loose form.

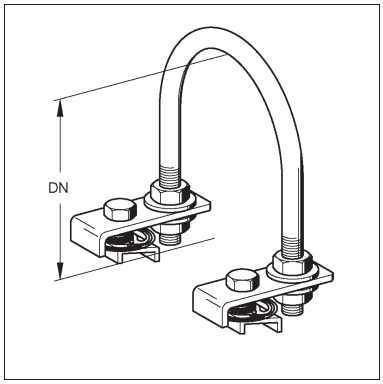
Installation
When used as Guided Support, nuts have to be arranged and fixed on both sides, at the top and at the bottom of the profile. Thereby the pipe should remain flexible. When used as Fixed Point the admissible loads of the connecting elements shouldn't exceed the bending loads of the U-bolt.

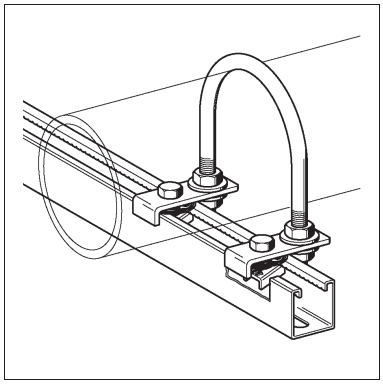
Technical Data
Material: Steel, HCP

Type	NB	B [mm]	L_1 [mm]	L_2 [mm]	Thread	W [kg]	Quantity [pack]	Part number
26.9	3/4"	40	60	40	M 10	0.12	50	**162179**
33.7	1"	48	66	40	M 10	0.12	50	**162188**
42.4	1 1/4"	56	76	50	M 10	0.14	50	**162197**
48.3	1 1/2"	62	82	50	M 10	0.14	50	**162203**
60.3	2"	76	97	50	M 12	0.23	50	**162212**
76.1	2 1/2"	94	113	50	M 12	0.26	50	**162221**
88.9	3"	106	126	50	M 12	0.29	50	**162230**
114.3	4"	136	155	60	M 16	0.63	25	**162249**
139.7	5"	164	175	60	M 16	0.71	25	**162258**
168.3	6"	192	201	60	M 16	0.80	10	**162267**
193.7	202	218	233	60	M 16	0.90	10	**162276**
219.1	8"	248	263	70	M 20	1.61	10	**162285**
274.0	10"	302	314	70	M 20	1.88	10	**162294**
323.9	12"	352	365	70	M 20	2.52	1	**162300**
355.6	378	402	411	70	M 24	3.53	1	**162319**
406.4	428	452	463	70	M 24	3.90	1	**162328**
508.0	530	554	565	70	M 24	4.63	1	**162337**









U Bolt Support UBF HCP

Group: 1810

Application
For simple combination of U Bolt and Channel.
Suitable for all Sikla Channels MS 41.

Installation
Simple attachment with Channel Nuts M10 and Hexagon Bolts M10x25.
For each U bolt each one set has to be used.

Technical Data
Material: Steel, HCP

Type	W [kg]	Pack. [pair]	Part number
UBF	0.15	25	**194188**

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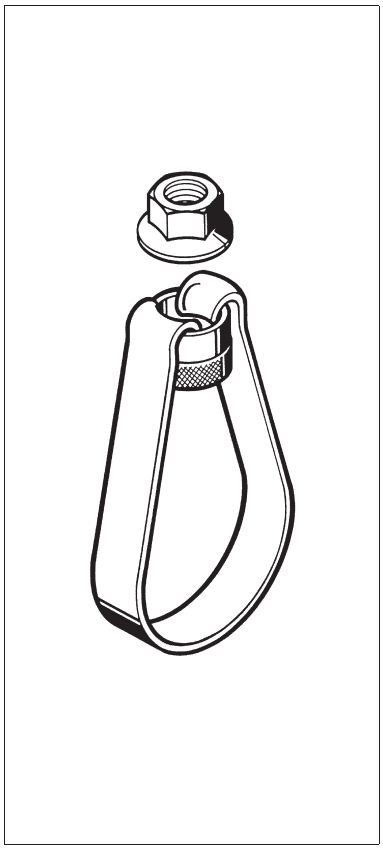
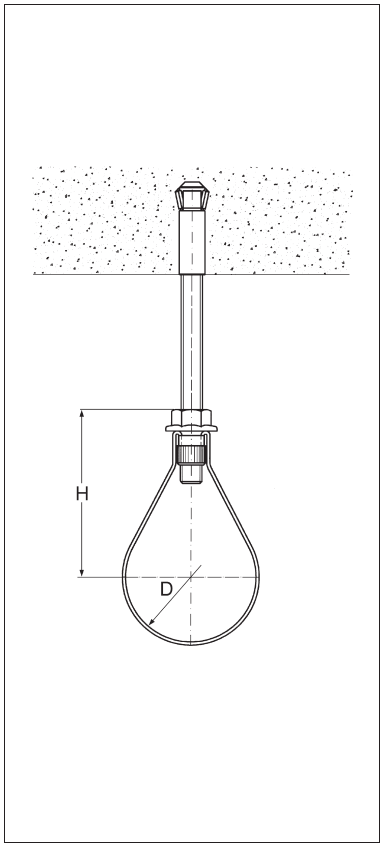




Pipe Loop RSL N HCP

Group: 1815

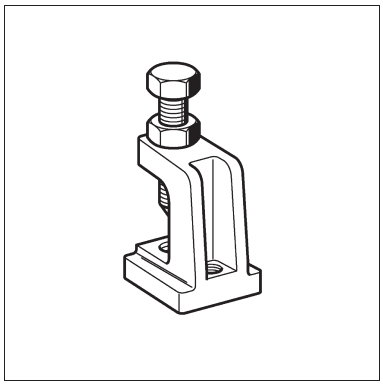
Application
For pipeline installations of fixed fire entinguishing systems, mainly used for Sprinkler Systems.

Scope of delivery
Pipe Loop with round edges. Flange nuts and cup nuts are included in loose form.

Technical Data
Material: Steel, HCP

Approvals
FM and VdS (No. G4850025) approved

Type	NB	Connection	D [mm]	H [mm]	W [kg]	Quantity [pack]	Part number
26.9	3/4"	M8 (VdS)	27	65	0.05	100	**113242**
33.7	1"	M8 (VdS)	34	65	0.05	100	**113243**
42.4	1 1/4"	M8 (VdS)	43	65	0.05	50	**113244**
48.3	1 1/2"	M8 (VdS)	49	70	0.06	50	**113245**
60.3	2"	M8 (VdS)	61	79	0.06	50	**113246**
26.9	3/4"	M10 (FM)	27	65	0.05	100	**113415**
33.7	1"	M10 (FM)	34	65	0.06	100	**113238**
42.4	1 1/4"	M10 (FM)	43	65	0.06	50	**113239**
48.3	1 1/2"	M10 (FM)	49	70	0.06	50	**113240**
60.3	2"	M10 (FM)	61	79	0.07	50	**113241**
76.1	2 1/2"	M10	77	98	0.14	25	**113247**
88.9	3"	M10	90	113	0.16	25	**113248**
108		M10	110	142	0.19	25	**113249**
114.3	4"	M10	115	142	0.19	25	**113250**
133		M12	135	155	0.22	25	**113251**
139.7	5"	M12	142	155	0.22	25	**113252**
159		M12	161	185	0.25	25	**113253**
168.3	6"	M12	170	185	0.26	25	**113254**
219.1	8"	M16	221	239	0.56	10	**113255**



Beam Clamp TCS 1 HCP

Group: 1837

Application

Heavy-duty connection elements which, in combination with Grub Screws (M10), are suitable for mounting pipes, ducts and equipment to steel beams (I-, T-, U- and angle steel beams).

- The combination with a Universal Joint ss provides for vertically aligned attachment to inclined beams.
- Can serve as single mounting elements, for installing crossbars and for fixing cantilever structures.
- Due to their special base profile, Beam Clamps TCS 1 can also be slid along and retained in the opening of Sikla Channels MS 41.

Scope of delivery

Pre-assembled with clamping bolt and locking nut.

Installation

Tigthen the clamping bolt of the Beam Clamp first by hand, then tighten down with a spanner according to the mounting instructions. The hardened point of the clamping bolt will penetrate the comparatively soft material of the beam, ensuring a solid and highly secure connection. Tigthen the locking nut for securing the installation.
For use in the area of a cutting edge of a channel, an additional Holding Bracket HK 41 must be mounted.

Note: Read relevant mounting instructions before installation!

Technical Data

Working load: 5.0 kN

This nominal load applies to new Beam Clamps fixed to undamaged beam flanges only.

Material:

Type	Connection [fore/aft]	Clamping range on parallel flange [mm]	W [kg]	Quantity [pack]	Part number
TCS 1 M10	M10/M10	26	0.21	50	**162151**

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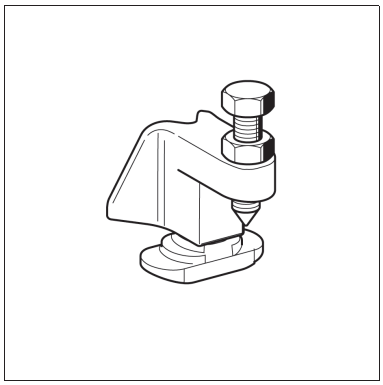
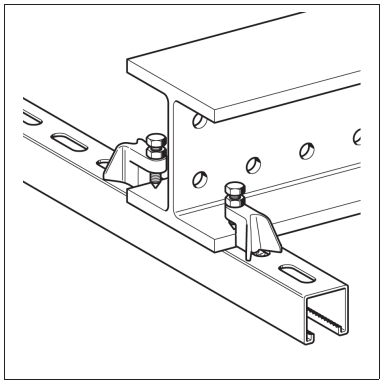
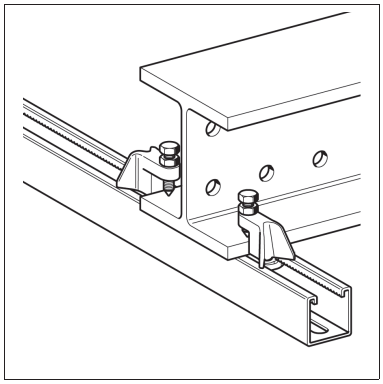






Beam Clamp TCS 41 HCP

Group: 1837

Application

The Beam Clamp TCS 41 allows for a direct connection of Sikla 41mm slotted strut channel without having this obstruction. If the channel opening is supposed to be in beam direction, the Beam Clamp TCS 41 can easily be fixed within the channel's opening as we know it from type TCS 1.

Scope of delivery

Cast iron part, completely pre-assembled with clamping bolt and locking nut.

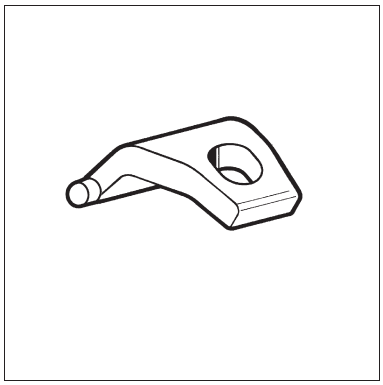
Installation

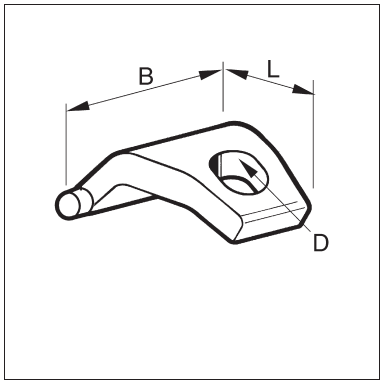
Insert the foot of the Beam Clamp into the slot on the back of the channel, twist by 90° and push it against the beam's flange. First tighten bolt of Beam Clamp (hand-tight), then tighten further with 1 1/2 turns. The sharpened tip of the bolt will dent the beam thus providing a high level of safety. At last tighten locking nut. Every channel (statically determined) has to be fixed at least twice.

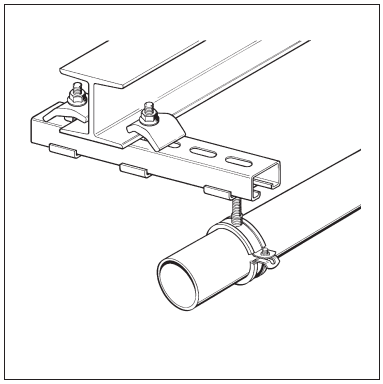
Technical Data

Nominal load: 4.0 kN
Material: Cast iron, clamping bolt 8.8, surface HCP

Type	Clamping range on parallel flange [mm]	W [kg]	Quantity [pack]	Part number
TCS 41	20	0.12	50	**110003**







Beam Clip P HCP

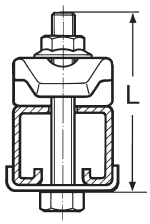
Group: 1831

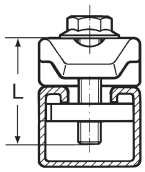
Application

Universal clamping element for bi-lateral attachment of products with base plates or of crossbars for pipes, ducts and equipment to steel beams.
If the height of the flange is bigger than the maximum clamping range, this can be increased using a spacer of up to 10 mm. If higher spacers are used, these have to be welded to the crossbar.

Installation

Determination of the required bolth length $L_{min:}$

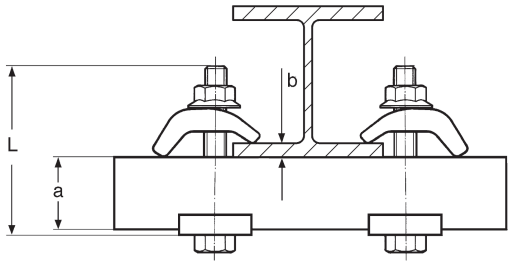




Pass-through bolt
P 2: L_{min} = a + b + 43 [mm]
P 3: L_{min} = a + b + 48 [mm]

Channel nut
P 2: L_{min} = b + 45 [mm]
P 3: L_{min} = b + 50 [mm]

Tightening torque ± 10%
P2: 85 Nm
P3: 150 Nm



Technical Data

Type	Working load (tension)
P 2	5.0 kN
P 3	7.0 kN

Note: For vertical installation, please contact Sikla Technical Department.

Material: Cast iron, HCP

Type	Size range [mm]	Ø D [mm]	L [mm]	B [mm]	W [kg]	Quantity [pack]	Part number
P2	1 - 33	13	62	50	0.23	25	**165905**
P3	1 - 33	17	69	50	0.25	25	**165914**

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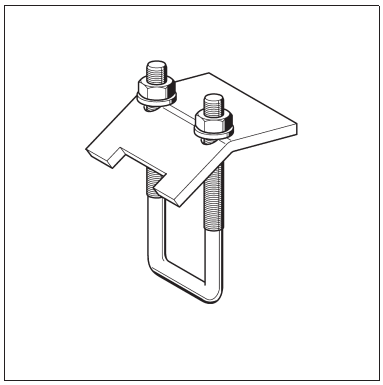
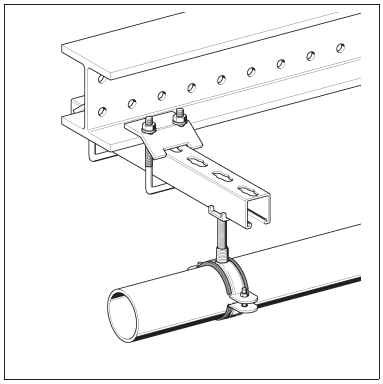




U-Holder SB 41 HCP

Group: 1831

Application
Clamping element for bi-lateral attachment of crossbars to steel beams, independent from the channel's opening.

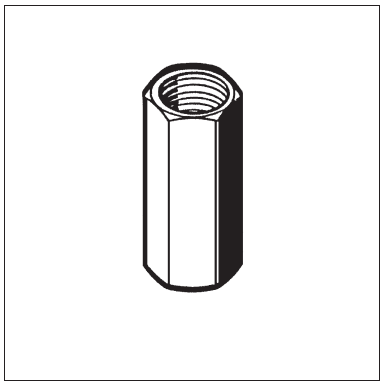
Installation
To be used in pairs.
Length calculation = Beam/Girder flange thickness + min. 2 x 50 mm overhang

Technical Data

Type	Max. perm. load tension	Tightening torque
M10	5,0 kN per U-Holder	30 Nm

Material: Steel, HCP

Type	For channel height [mm]	Max. flange thickness [mm]	Thread	W [kg]	Quantity [pack]	Part number
41 - M10	20 - 62	16	M10	0.41	20	**113879**



Adapter AD f/f HCP

Group: 1833

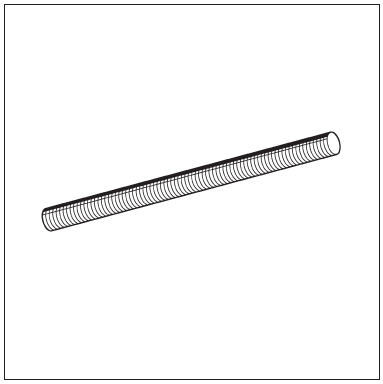
Application

Adapter to be seen as expansion of the connection possibilities - to be used for all Sikla Pipe Clamps with 3G-thread, Fixed Points and Threaded Tubes $^1/_2$".

Technical Data

Material: Steel, HCP

Type	Length [mm]	A/F [mm]	W [kg]	Quantity [pack]	Part number
$^1/_2$"/M10	35	24	0.08	10	**112163**
$^1/_2$"/M12	35	24	0.07	10	**112164**
$^1/_2$"/$^3/_8$"	40	24	0.06	25	**112165**
$^1/_2$"/$^1/_2$"	35	24	0.05	10	**112166**
$^1/_2$"/M16	40	24	0.07	25	**112167**



Threaded Stud GST HCP

Group: 1816

Technical Data

Material: Steel, HCP

Type	Length [mm]	W [kg]	Quantity [pack]	Part number
M10/40	40	0.02	100	**162407**
M10/70	70	0.03	100	**162416**
M10/110	110	0.05	100	**162425**
M10/1000	1000	0.49	25	**167244**
M12/70	70	0.05	100	**162443**
M12/110	110	0.07	100	**162452**
M12/200	200	0.14	100	**162461**
M12/250	250	0.18	100	**180686**
M12/300	300	0.20	100	**180695**
M12/400	400	0.27	100	**180713**
M12/500	500	0.35	100	**180722**
M12/1000	1000	0.70	25	**189866**
M16/1000	1000	1.30	10	**192377**

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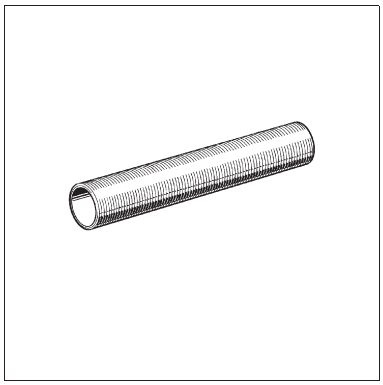


Threaded Tube GR HCP

Group: 1813

Application

To be used as

- a direct connection element between Mounting Plate and Pipe Clamp or
- a suport rod in combination with Socket Angle or Universal Joints as angular support.

Scope of delivery

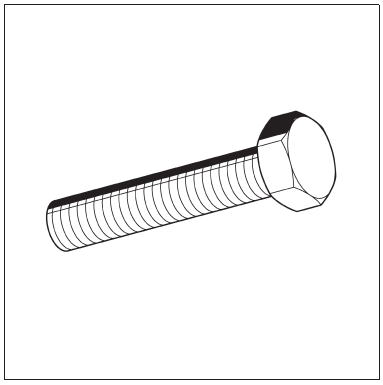
Standard length = 2 m; shorter pre-cut parts available on request.

Technical Data

Thread according to DIN EN ISO 228

Material: Steel, HCP

Type	Length	Weight [kg/m]	Qty. [m]	Part number
G $^1/_2$"	2 m	1.02	2	**110717**



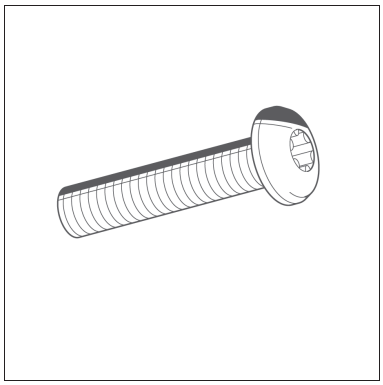
Hexagon Bolt SKT HCP

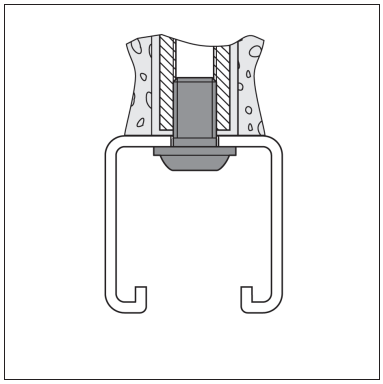
Group: 1870

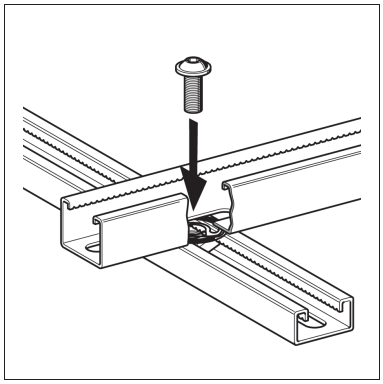
Technical Data

Material: Steel, HCP

Type	Length [mm]	W [kg]	Quantity [pack]	Part number
M10/25	25	0.02	100	**162568**
M10/40	40	0.03	100	**162577**
M12/25	25	0.03	100	**162586**
M12/30	30	0.04	100	**164144**
M12/40	40	0.04	50	**162595**
M12/60	60	0.06	50	**164153**
M12/80	80	0.07	50	**164162**
M12/100	100	0.09	50	**164171**
M16/50	50	0.10	100	**162601**
M16/80	80	0.14	25	**164180**
M16/100	100	0.17	25	**171866**







Flange Screw SCR FLA HCP

Group: 1875

Application

Type M10 x 15 allows fixation of Channels by means of Drive Plug AN, without exceeding the max. permissible screw-in depth or to go under the min. screw-in depth required.
Type M10 x 25 is the ideal connecting part for two Sikla Channels MS 41.

Versions "TT" are self-forming screws. Type M10 x 55 is applicable for fixing components with thickness of max. 41 mm to "Framo 80" system.

Installation

The maximum admissible tightening torque strictly has to be observed.

Technical Data

M10 x 15 and M10 x 25

Drive:	Internal hexagon SW 6

TT M10 x 25 and TT M10 x 55

max. adm. tightening torque:	20 Nm (max. adm.)
Drive:	Torx-T50
Material:	Steel, HCP

Type	Length [mm]	W [kg]	Quantity [pack]	Part number
M10 x 15	15	0.01	100	**199107**
M10 x 25	25	0.02	100	**198353**
TT M10 x 25	25	0.02	600	**110503**
TT M10 x 55	55	0.04	500	**197608**

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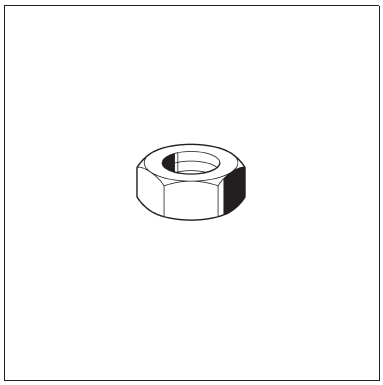


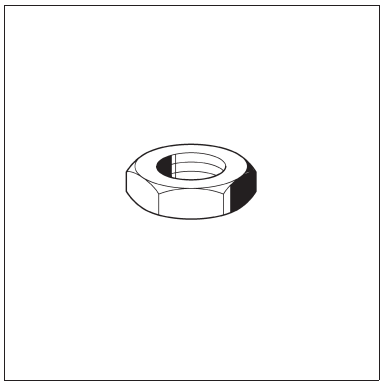
Hexagon Nut NT HCP

Group: 1871

Technical Data

Material: Steel, HCP

Type	W [kg]	Quantity [pack]	Part number
M10	0.01	100	**162391**
M12	0.01	100	**162382**
M16	0.03	100	**163019**



Locking Nut NT G HCP

Group: 1813

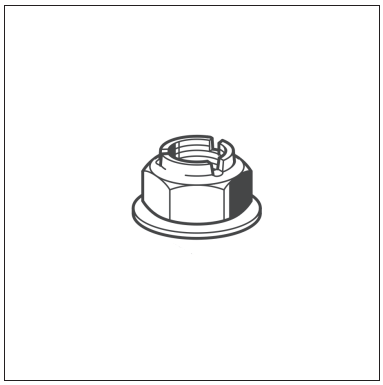
Application

Suitable for Sikla Threaded Tubes and terminal nuts (e.g. with Slide Sets), especially to lock a nut.

Technical Data

Material Steel, HCP

Type	W [kg]	Quantity [pack]	Part number
G $^1/_2$"	0.04	25	**110755**



Safety Nut with flange NT SEC HCP

Group: 1876

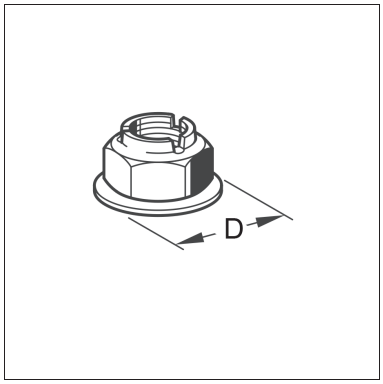
Application

The Safety Nut is equipped with a self-locking head made of steel (3 parts) being arranged in a conical shape. This offers the highest possible safety against unscrewing. The Safety Nut with flange offers the following advantages:

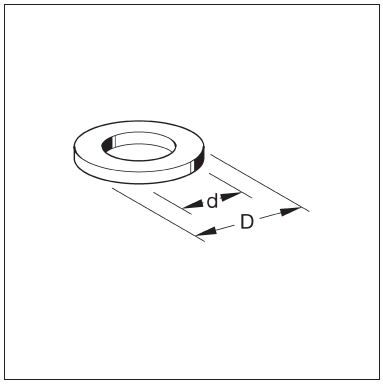
- Clamping effect directly at the thread – resilient, elastic
- applicable for all HCP and electrogalvanised screws and threaded rods
- improved thread moving due to the separated securing segments
- reusability after disassembling
- high temperature resistance

Technical Data

Material: Steel, Quality class 10, HCP



Type	D [mm]	W [kg]	Quantity [pack]	Part number
M8	17	0.01	50	**113062**
M10	21	0.01	50	**113063**



Washer US HCP

Group: 1872

Technical Data

Material: Steel, HCP

Type	DIN	D [mm]	d [mm]	s [mm]	W [kg]	Quantity [pack]	Part number
10/125	125	20.0	10.5	2.0	0.01	100	**162346**
12/125	125	24.0	13.0	2.5	0.01	100	**162355**
16/125	125	30.0	17.0	3.0	0.01	100	**179156**
10/40		40.0	10.5	3.0	0.03	100	**162373**
12/40		40.0	13.0	3.0	0.02	100	**162364**

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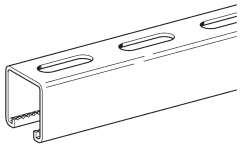
Channel MS ss



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Channel Nut NT ss

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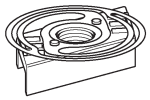
Speed Nut NT CC 41 ss



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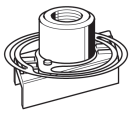
Adapter NT CC 41 DIN 3015 ss



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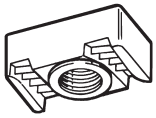
Channel Nut NT HZ 41 ss



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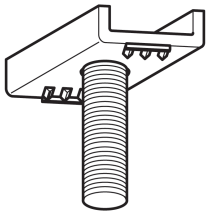
T-Head Bolt TBO HZ 41 ss



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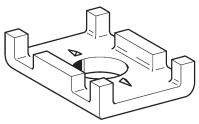
Holding Bracket HK ss



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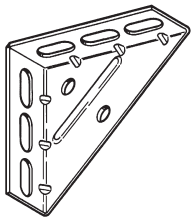
Support Bracket WK ss



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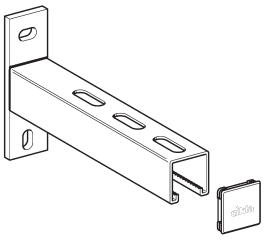
Cantilever Bracket AK ss



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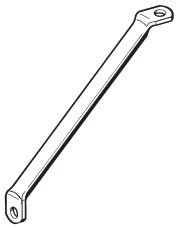
Tie Rod STR ss



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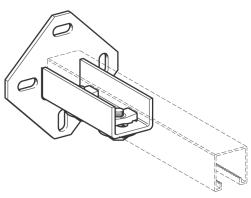
End Support WBD ss



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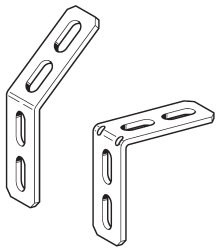
Fixing Bracket MW ss



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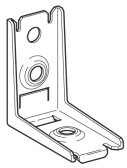
Fixing Bracket MW 90° W Stabil ss



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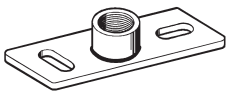
Mounting Plate GPL ss



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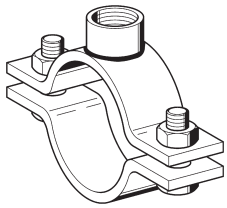
Pipe Clamp Stabil I-1/2" ss



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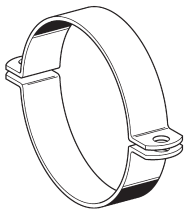
Stabil D ss



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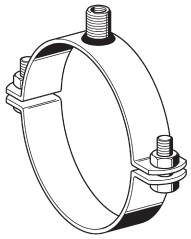
Stabil D-2G/-3G ss



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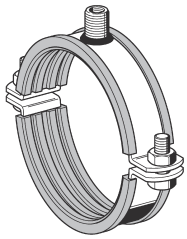
Stabil D-2G/-3G ss w/Lining



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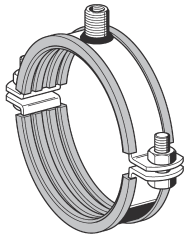
Stabil D-2G/-3G ss w/Silicone Lining



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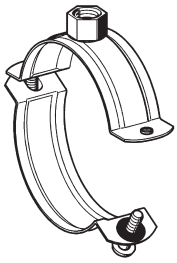
Duo Clamp SRS ss



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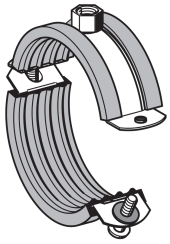
Duo Clamp SRS ss w/Lining



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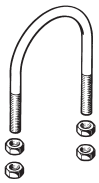
U Bolt RUB ss



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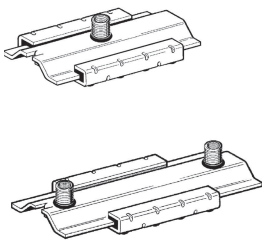
Slide Set GS H3G ss



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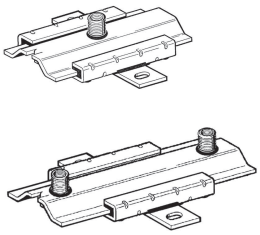
Slide Set GS H3G-PL ss



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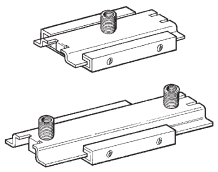
Slide Set GS 2G ss



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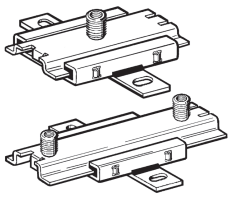
Slide Set GS 2G-PL ss



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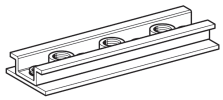
Slide Element GS 41 ss



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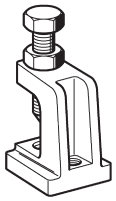
Beam Clamp TCS 1 ss



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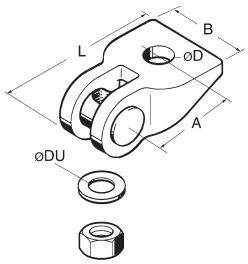
Universal Joint UG ss



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Beam Clip P ss

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Bolt Anchor AN BZ plus ss

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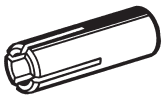
Drive Plug AN ss



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Rod Coupling AD f/f ss

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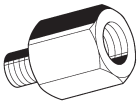
Reducer AD f/m ss



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Adapter AD f/f ss

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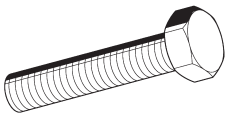
Hexagon Bolt SKT ss



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Hexagon Nut NT ss

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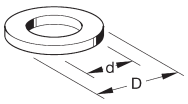
Washer US ss



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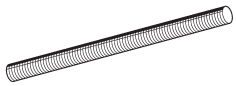
Threaded Rod GST ss



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Threaded Tube GR ss

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Locking Nut NT G ss

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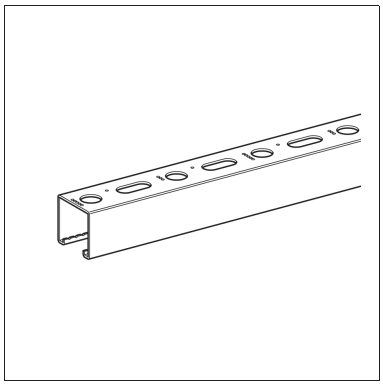


Channel MS ss

Group: 1711

Application

Element for easily and efficiently pre-assembling crossbars, wall brackets and supporting structures on construction sites or in workshops.

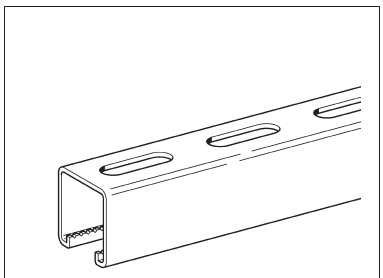
They can be used as guide and support channels for slide applications by inserting the Slide Element 41 ss inside the channel.

Scope of delivery

Available as single or double channels. Double channels are joined together by clinching.

Installation

All channels of the 41 series are serrated inside and provide numerous combination options with other stainless steel system components.



41/41/2.0

Technical Data

Material: Stainless steel A4 according to approval Z-30.3-6 of the building authorities

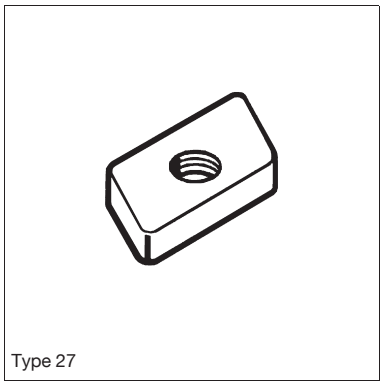
D = Double channel

Type W/H/Th [mm]	Section modulus [cm^3]	Moment of inertia [cm^4]	Radius of gyration [cm]
27/15/1.25	W_y : 0.27 W_z : 0.65	I_y : 0.22 I_z : 0.88	i_y : 0.55 i_z : 1.10
41/21/2.0	W_y : 0.82 W_z : 2.12	I_y : 0.92 I_z : 4.35	i_y : 0.76 i_z : 1.65
41/41/2.0	W_y : 2.43 W_z : 3.65	I_y : 5.16 I_z : 7.48	i_y : 1.46 i_z : 1.75
41/62/2.5	W_y : 5.54 W_z : 6.27	I_y : 17.70 I_z : 12.86	i_y : 2.10 i_z : 1.79
41/41/2.0 D	W_y : 7.16 W_z : 7.30	I_y : 29.34 I_z : 14.96	i_y : 2.45 i_z : 1.75
41/62/2.5 D	W_y : 17.38 W_z : 12.54	I_y : 107.75 I_z : 25.71	i_y : 3.66 i_z : 1.79

Type W/H/Th [mm]	Cross section A [cm^2]	Distance e [cm]	Max. point carrying capacity F_{max} [kN]	Max. torsional moment Mq [Nm]
27/15/1.25	0.73	0.84	1.7	15.0
41/21/2.0	1.61	1.12	4.0	44.5
41/41/2.0	2.43	2.12	4.0	44.5
41/62/2.5	4.01	3.20	6.0	44.5
41/41/2.0 D	4.87	4.10	4.0	44.5
41/62/2.5 D	8.03	6.20	6.0	44.5

All values in both tables refer to slotted channels. Load tables are to be seen in chapter "Pressix CC 27 resp. CC 41".

Type	Steel grade	Length [m]	Slot pattern	Weight [kg/m]	Qty. [m]	Part number
27/15/1.25	A4	2	1	0.59	2	**112912**
41/21/2.0	A4	6	3	1.32	6	**110595**
41/41/2.0	A4	2	3	1.97	2	**195802**
41/41/2.0	A4	6	3	1.97	6	**195796**
41/62/2.5	A4	6	3	3.13	6	**173972**
41/41/2.0 D	A4	6	3	3.94	6	**195819**
41/62/2.5 D	A4	6	3	6.27	6	**174143**



Type 27

Channel Nut NT ss

Group: 1714

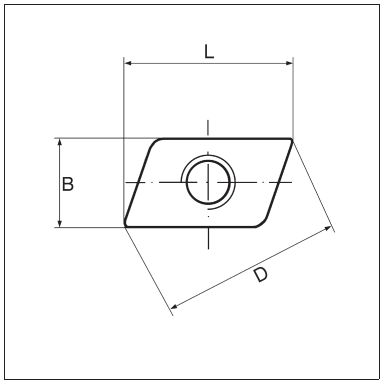
Application

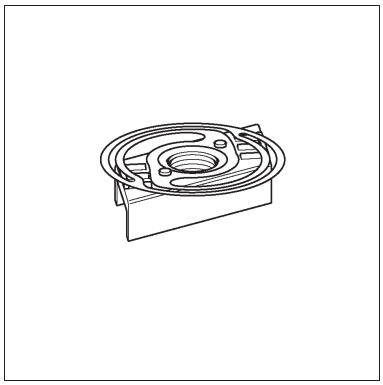
For channels with a width of 27 mm.

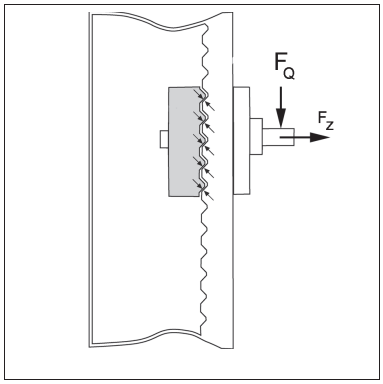
Technical Data

Material: Stainless steel A4

Type	Thickness [mm]	L [mm]	B [mm]	D [mm]	W [kg]	Quantity [pack]	Part number
27 - M8	4	24	15	27	0.01	100	**174170**
27 - M10	4	24	15	27	0.01	100	**174179**







Speed Nut NT CC 41 ss

Group: 1714

Application

In particular useful when installing in vertical channels or in places of difficult access.

Further advantages:

- For all Sikla Channels of type 41, independent of the height of the channel.
- No getting stuck on bolt heads when sliding in the channel.
- No appearance of settlement after tightening.

Scope of delivery

Channel Nut and Spring are tightely connected.

Installation

After inserting the Speed Nut into the channel opening, it is - by exerting slight pressure on it - turned to the right as far as it will go; deinstallation may be effected by following the instructions in reverse order.

Installation and deinstallation do not require tools and may be repeated several times.

Technical Data

	M6	M8	M10
Tightening torque [Nm]	10	25	40

Material thickness channel [mm]	M6 FZ ≤ [kN]	M8 FZ ≤ [kN]	M10 FZ ≤ [kN]		M6 FQ ≤ [kN]	M8 FQ ≤ [kN]	M10 FQ ≤ [kN]
2.0	3.2	5.8	5.8		0.9	2.1	3.4
2.5	3.2	5.8	5.8		1.0	2.6	4.1

Note: The admissible load capacities of the channels are to be taken into account.

Material:

Nut: Stainless steel 316 (A4)

Spring: Sheet metal spring steel, rustproof

Type	W [kg]	Quantity [pack]	Part number
CC 41-M6	0.02	50	**199299**
CC 41-M8	0.03	50	**199305**
CC 41-M10	0.03	50	**199312**

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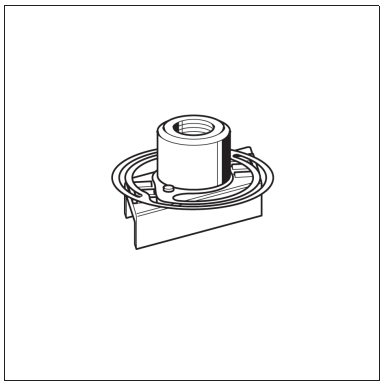


Adapter NT CC 41 DIN 3015 ss

Group: 1714

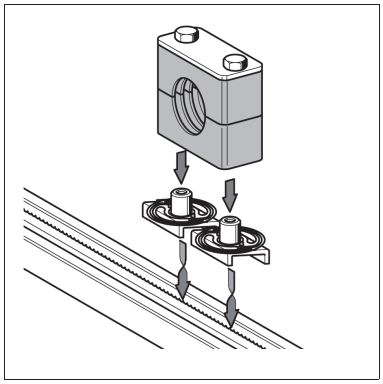
Application

For efficient assembly of fastening clamps DIN 3015 (light and heavy series) to Channels MS 41. Particularly useable for assembly in vertical channels or positions difficult to access, this piece replaces the "3rd hand" and offers following further advantages:

- Compatible with all Sikla Channels MS 41, regardless of the channel's height.
- No getting stuck of screw heads while moving inside the channel.
- Plane fixation without projecting after tightening.

Scope of delivery

Channel nut, spring and thread connection pre-assembled.



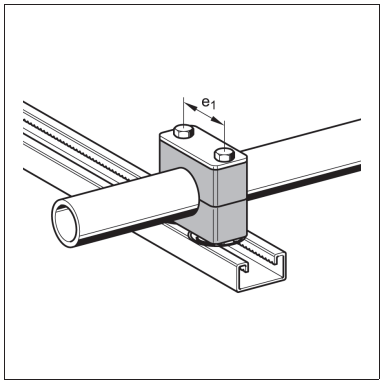
Installation

After inserting the Adapter NT CC 41 into the channel opening, slightly press on the thread connection. The piece automatically turns into position. Postion the fastening clamp and tighten the screws.
Neither assembly nor removal require a tool and are repeatable as much as is necessary.

Technical Data

Material:

Channel nut, thread connection:	Stainless steel 316 (A4)
Spring washer:	Spring steel sheet, rustproof



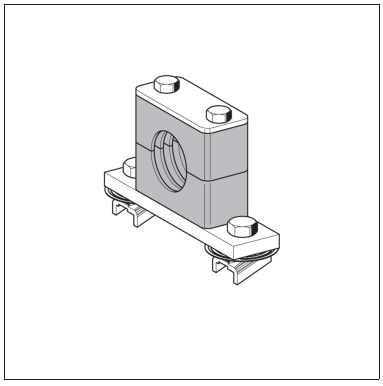
Pipe clamps DIN 3015-1 (series A, light model range)

Clamp size	Pipe outer-dia. [mm]	Connection with	e_1
0	6 up to 12	1 x Adapter NT CC 41 ss M6	
1	6 up to 12	2 x Speed Nut NT CC 41 ss M6	20 [1)]
2	12.7 up to 18	2 x Speed Nut NT CC 41 ss M6	26 [1)]
3	19 up to 25	2 x Speed Nut NT CC 41 ss M6	33 [1)]
4	26.9 up to 30	2 x Adapter NT CC 41 ss M6	40
5	32 up to 42	2 x Adapter NT CC 41 ss M6	52
6	44.5 up to 57	2 x Adapter NT CC 41 ss M6	66
7	57.2 up to 76.1	2 x Adapter NT CC 41 ss M6	94
8	88.9 up to 101.8	2 x Adapter NT CC 41 ss M6	120

Pipe clamps DIN 3015-2 (series C, heavy-load model range)

Pipe size	Pipe outer dia. [mm]	Connection with	e_1
1	6 up to 18	2 x Speed Nut NT CC 41 ss M10	33 [1)]
2	19 up to 30	2 x Adapter NT CC 41 ss M10	45
3	30 up to 42	2 x Adapter NT CC 41 ss M10	60
4	38 up to 70	2 x Adapter NT CC 41 ss M12	90

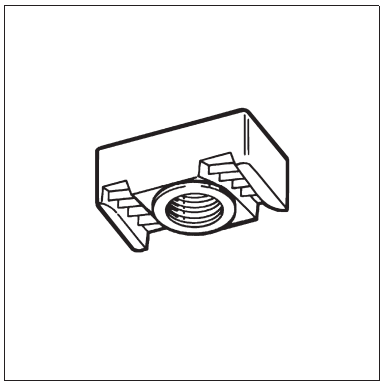
[1)] For these hole distances the screwing plate of the clamp - see image 4 as well as each two Hexagon Bolts and Speed Nuts NT CC 41 are required.

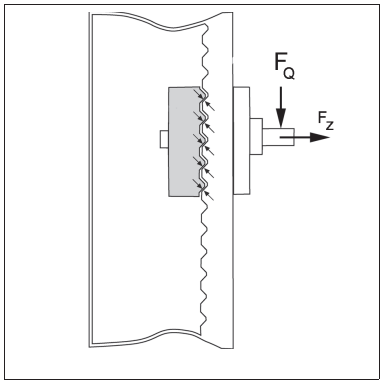


Pipe clamps DIN 3015-3 (series B, double model range)

Pipe size	Pipe outer dia. [mm]	Connection with
1	6 up to 12	1 x Adapter NT CC 41 ss M6
2	12.7 up to 18	1 x Adapter NT CC 41 ss M8
3	19 up to 25	1 x Adapter NT CC 41 ss M8
4	26.9 up to 30	1 x Adapter NT CC 41 ss M8
5	32 up to 42	1 x Adapter NT CC 41 ss M8

Type	W [kg]	Quantity [pack]	Part number
M6	0.04	100	**110008**
M8	0.04	100	**110017**
M10	0.04	100	**110009**
M12	0.07	100	**110010**





Channel Nut NT HZ 41 ss

Group: 1714

Application

Suitable for Channels MS 41 ss.

Technical Data

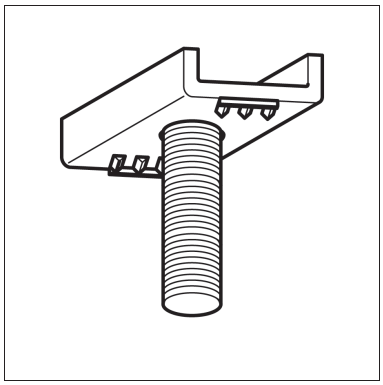
	M12	M16
Tightening torque [Nm]	80	80

Channel thickness [mm]	M12 FZ ≤ [kN]	M16 FZ ≤ [kN]		M12 FQ ≤ [kN]	M16 FQ ≤ [kN]
2.0	10	10		9	6
2.5	11	11		9	6

Note: The permissible load capacities of the channels are to be respected..

Material: Stainless steel A4

Type	W [kg]	Quantity [pack]	Part number
HZ 41-M12	0.06	50	**182342**
HZ 41-M16	0.05	50	**182351**



T-Head Bolt TBO HZ 41 ss

Group: 1707

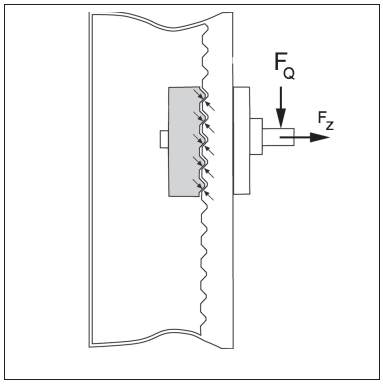
Application

To be used with Channels MS 41 ss.

Technical Data

Type	Tightening torque M_{dmax} [Nm]	perm. bending moment [1] [Nm]
HZ 41 M8	10.0	5.0
HZ 41 M10	18.0	10.0
HZ 41 M12	32.0	17.5

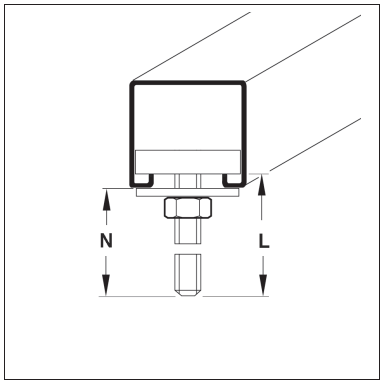
[1] The actual bending moment shouldn't exceed the permissible bending moment of the channel acting laterally.



Material thickness channel [mm]	M8 FZ ≤ [kN]	M10 FZ ≤ [kN]	M12 FZ ≤ [kN]		M8 FQ ≤ [kN]	M10 FQ ≤ [kN]	M12 FQ ≤ [kN]
1.5	4.7	4.7	7.5		1.8	2.9	7.5
2.0	5.8	5.8	10		2.1	3.4	9
2.5	5.8	5.8	11		2.6	4.1	9
3.0	5.8	5.8	13		2.8	4.4	9

Notice: The permissible bearing capacity of the channels is to be respected.

Material:
T-Head: Stainless steel 316
Threaded rod: Class A4-50



Type	Length L [mm]	Available length of thread [mm]	W [kg]	Quantity [pack]	Part number
HZ 41 M8 x 35	40	35	0.04	50	**111455**
HZ 41 M10 x 35	40	35	0.05	50	**111457**
HZ 41 M12 x 35	40	35	0.06	50	**187454**

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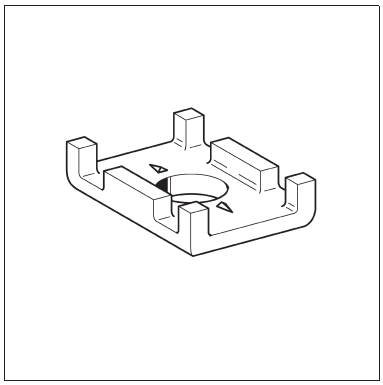


Holding Bracket HK ss

Group: 1728

Application

Safety element for Sikla Channels to be used instead of simple washers. The Holding Bracket prevents the edges along the opening of the channels from bending, and ensures optimum load distribution.

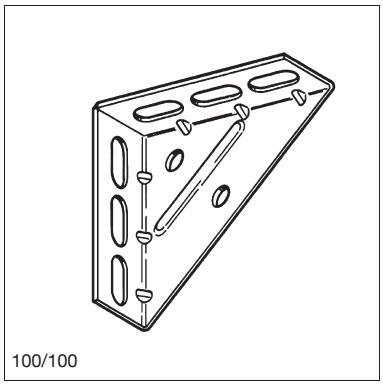
Suitable for single and double channels.

When loads are imposed along the channels, Holding Brackets 41 provide for additional safety due to embossed teeth, which penetrate the channel.

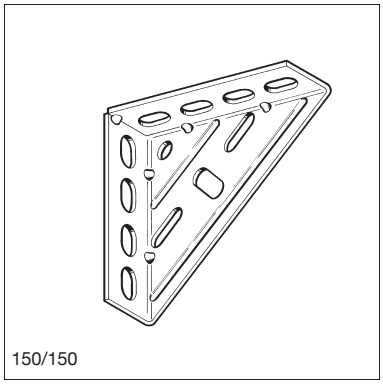
Technical Data

Material: Stainless steel A4

Type	Suitable for Sikla channels of width [mm]	Bore [mm]	W [kg]	Quantity [pack]	Part number
41/10	41	11	0.07	50	**178634**
41/12	41	13	0.08	50	**178643**
41/16	41	17	0.07	50	**178652**



100/100



150/150

Support Bracket WK ss

Group: 1726

Application

May be used for wall, floor and overhead pipe installations. Depending on the site, pipes may lie on the support bracket (U bolt), be arranged in vertical position or be suspended (grub screws).

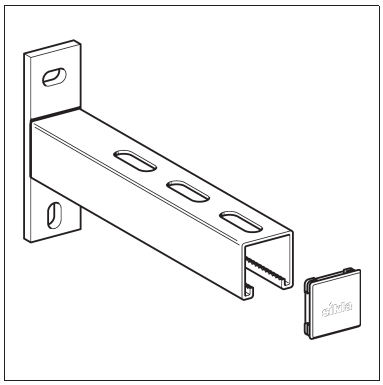
In combination with bolted-on channels, the support brackets offer a wide range of possibilities for cantilever arrangements. In addition, the load capacity of crossbars can be increased by fixing them onto Support Brackets.

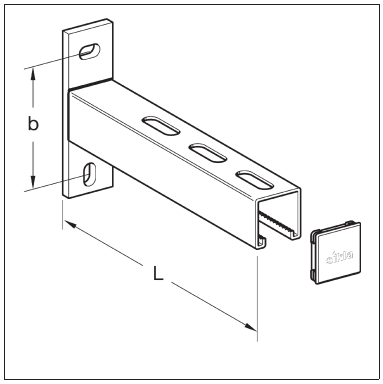
Technical Data

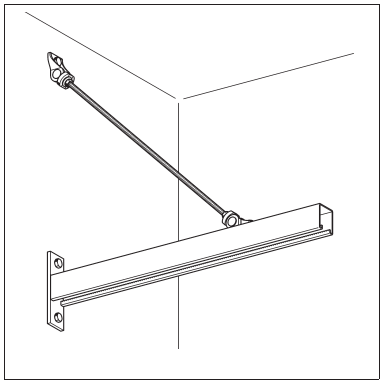
Material: Stainless steel A4

For further technical data or carrying capacities, see chapter "Brackets"

Type	W [kg]	Quantity [pack]	Part number
100/100	0.16	10	**118383**
150/150	0.58	25	**193655**







Cantilever Bracket AK ss

Group: 1754

Application
Ready-to-use brackets mainly for mounting pipes to walls.

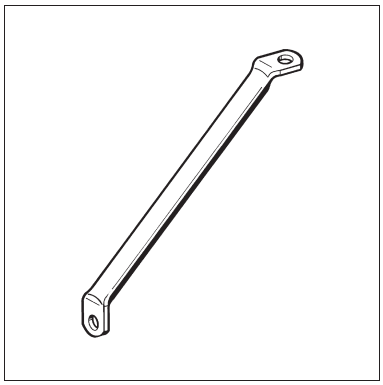
Scope of delivery
Wall plate and channel welded. Supplied with End Cap.

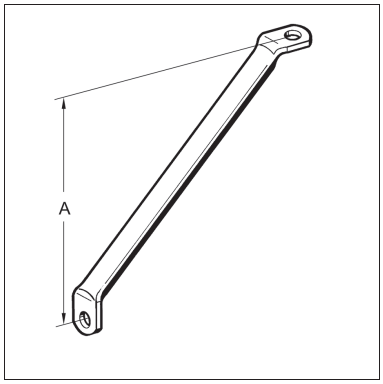
Installation
When used in combination with slide elements, a tie rod is absolutely essential for absorbing the forces running along the centre line of the pipe.

Technical Data
For load capacities, please see the charts of Cantilever Bracket 41/41 (galvanised)

Material: Stainless steel A4

Type	L [mm]	Wall plate [mm]	b [mm]	Dimensions of elongated hole [mm]	W [kg]	Quantity [pack]	Part number
41/41 - 200	196	132 x 40 x 8	100	13 x 18	0.70	10	**115520**
41/41 - 260	258	132 x 40 x 8	100	13 x 18	0.79	10	**115539**
41/41 - 320	321	132 x 40 x 8	100	13 x 18	0.92	10	**115548**
41/41 - 445	446	132 x 40 x 8	100	13 x 18	1.19	10	**115557**





Tie Rod STR ss

Group: 1726

Application

Necessary and time-saving element for horizontal or vertical constructions on the site. To be used as support and bracing of cantilever brackets or channel constructions.

Technical Data

Permissible load (tension and pressure): 7.0 kN
Installation dimension A: 365
Material: Stainless steel A4

Type	Pipe	Bore [mm]	W [kg]	Quantity [pack]	Part number
550/350	R $^{1}/_{2}$"	11	0.50	10	**171920**

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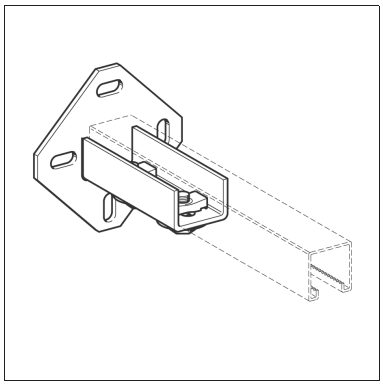
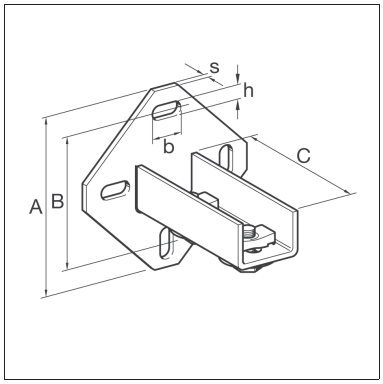




End Support WBD ss

Group: 1730

Application

In combination with a channel, End Support WBD ss is particularly suitable
- for setting up support structures attached to walls, floors and ceilings
- as a base for frame structures

Installation

Normally, two anchors grouped opposite to each other and along the load axis are sufficient. Only in exceptional cases (e.g. high props in frameworks) four anchors are required.
Tightening torque 40 Nm.
Suitable for stainless steel channels with width 41 mm up to height ≤ 62 mm.

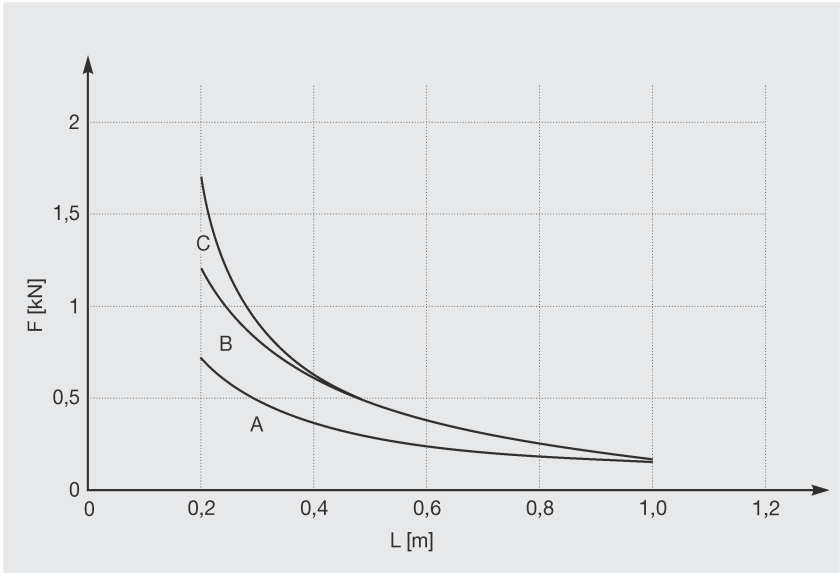
Technical Data

Type	Suitable for channel	A [mm]	s [mm]	B [mm]	b [mm]	h [mm]	C [mm]
41/41-62	41/41 bis 41/62	135	6	100	25	11	125

The permissible maximum vertical load for ceiling mounting structures fixed by way of at least one traversing bolt (class 8.8) amounts to 7.0 kN.

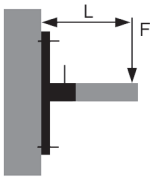
Material: Stainless steel A4

Working load for wall mounting with channel 41/41 and two anchors of the mentioned load class:

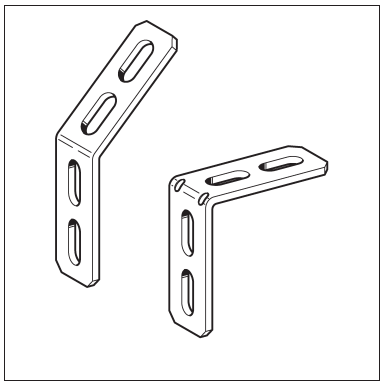


Restrictions
$\sigma_{perm} \leq 160$ N/mm²
$f_{perm} \leq L/100$ for L > 300 mm
$f_{perm} \leq 3$ mm for L = 200 ... 300 mm

Anchor load classes
A = 1.5 kN
B = 2.5 kN
C = 3.5 kN
D = 6.0 kN
E = 9.0 kN



Type	W [kg]	Quantity [pack]	Part number
41/41-62	1.12	5	**193631**



Fixing Bracket MW ss

Group: 1726

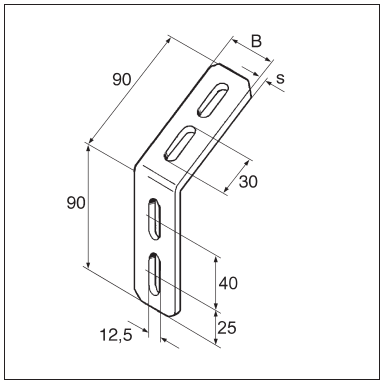
Application

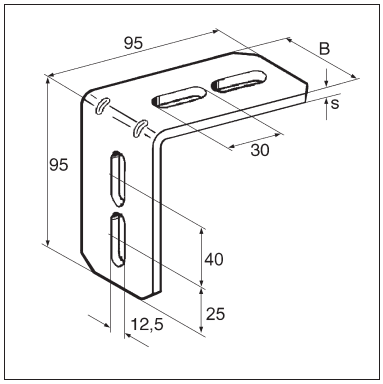
Useful addition to Support Brackets for integration in crossbars and other structures composed of stainless steel channels.

Technical Data

Material: Stainless steel A4, cold-formed

Type	B [mm]	s [mm]	W [kg]	Quantity [pack]	Part number
90/90/45°	40	4	0.18	25	**105721**
95/95/90°	40	4	0.18	25	**106281**





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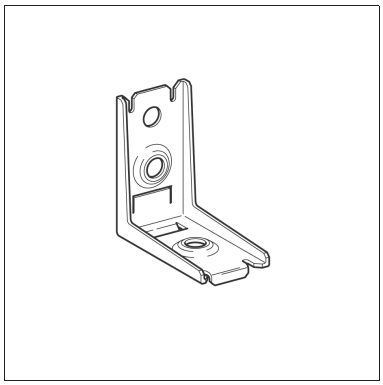
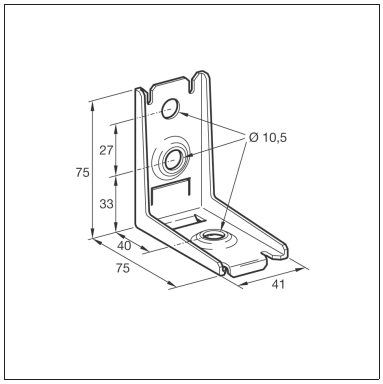




Fixing Bracket MW 90° W Stabil ss

Group: 1726

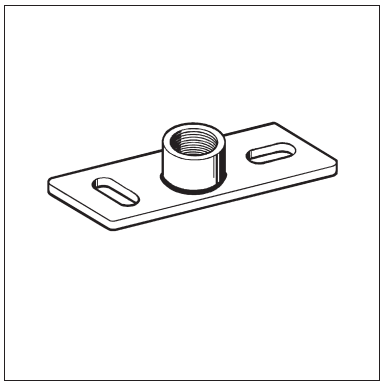
Application

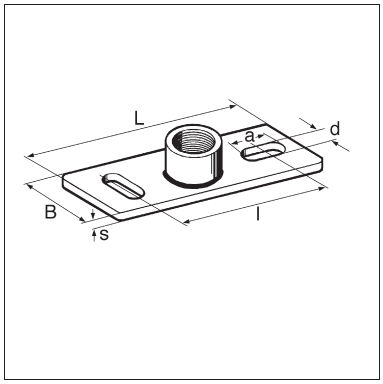
Fixing Bracket suitable for frame construction and cross bars composed of channels, as well as for connection to floor, wall and ceiling.
Thanks to the high stiffness resulting from the shape also suitable as Support Bracket for projecting racks.
When used as support for cross bars, their load capacity increases.

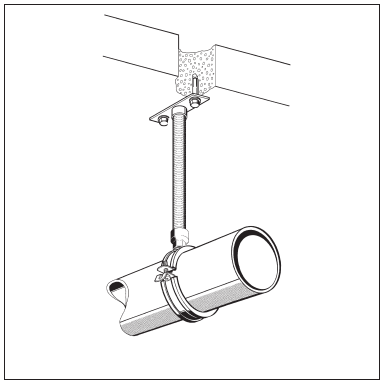
Technical Data

Nominal load:	F_{shear} = 2.5 kN per bracket
Tightening torque:	40 Nm
Material:	Stainless steel A4

Type	W [kg]	Quantity [pack]	Part number
90° W Stabil	0.12	25	**191702**







Mounting Plate GPL ss

Group: 1727

Application

For wall, ceiling and floor installation for mounting elements in M&E services.

Technical Data

The nominal loads mentioned shouldn't be exceeded. Permissible anchor values may restrict the application.

Version / Type	Tension [kN]	Perm. bending moment* [Nm]	Max. lever arm [mm]	Welding method
Stabil M8	3.0	8.8	150	R
Stabil M10	3.0	17.2	200	R
Stabil M12	3.0	29.6	300	R
Stabil M16	4.5	70.3	300	M
Stabil R $^1/_2$"	4.5	95.0	350	M
Stabil R $^3/_4$"	6.2	180.0	450	M

R = resistance welding
M = slot welding

* Limitation caused by the Mounting Plate or the loading capacity of the grub screw or of the threaded tube.
$\sigma_{perm} \leq 160$ N/mm^2 $f_{perm} < 5$ mm

Material: Stainless steel A4

Type	Dimension L x W x Th [mm]	Elongated hole d x a [mm]	Centre distance l [mm]	W [kg]	Quantity [pack]	Part number
Stabil M8	120 x 40 x 4	11 x 25	80	0.14	50	**107608**
Stabil M10	120 x 40 x 4	11 x 25	80	0.14	50	**107617**
Stabil M12	120 x 40 x 4	11 x 25	80	0.14	50	**107626**
Stabil M16	120 x 40 x 4	11 x 25	80	0.16	50	**107635**
Stabil R $^1/_2$"	120 x 40 x 4	11 x 25	80	0.16	50	**107644**
Stabil R $^3/_4$"	120 x 40 x 4	11 x 25	80	0.17	50	**107653**

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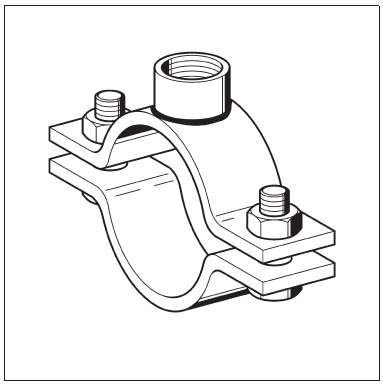
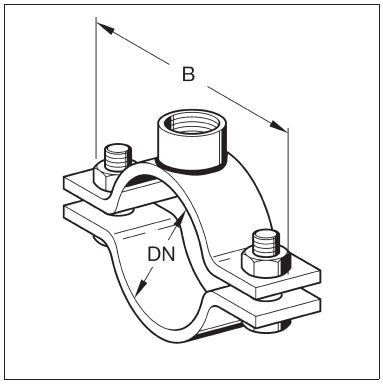




Pipe Clamp Stabil I-$^1/_2$" ss

Group: 1719

Application
Heavy pipe clamp for industrial application.

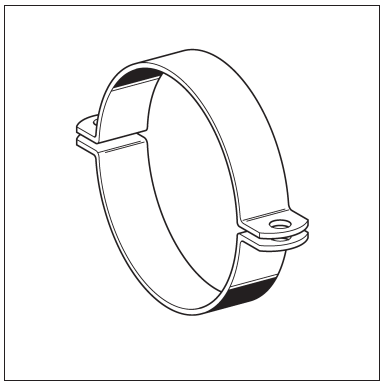
Scope of delivery
Two-piece pipe clamp with all around welded $^1/_2$" nut with clamping bolts and nuts.

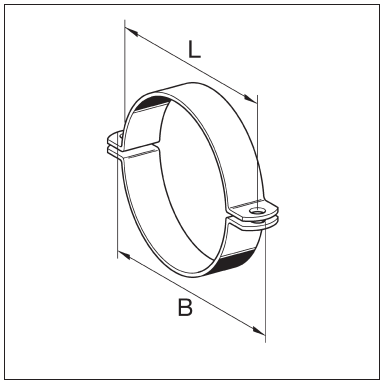
Installation
Suitable for single-point fixing directly with $^1/_2$" threaded tube or connected by respective adapters up to 1" threaded tube.

Technical Data
Material: Stainless steel 1.4404

Type	Material b x s [mm]	Clamping bolts	B [mm]
21	25 x 5	M8 x 25	75
27	25 x 5	M8 x 25	81
34	30 x 5	M8 x 25	88
43	30 x 5	M10 x 30	115
49	30 x 5	M10 x 30	119
61	30 x 5	M10 x 30	131
77	30 x 5	M12 x 35	158
89	30 x 5	M12 x 35	171
115	40 x 8	M16 x 50	218

Type	For pipe [NB]	W [kg]	Quantity [pack]	Part number
21	15	0.30	25	**188228**
27	20	0.23	25	**188237**
34	25	0.35	25	**188246**
43	32	0.40	25	**188255**
49	40	0.40	25	**188264**
61	50	0.62	25	**188273**
77	65	0.67	25	**188282**
89	80	0.75	25	**188291**
115	100	1.05	10	**188300**





Stabil D ss

Group: 1739

Application
For the installation of pipes required for all M&E services in industrial, residential and public buildings.

Scope of delivery
Two-piece pipe clamp without clamping bolts and nuts.

Installation
Particularly suitable for two-point mountings.

Technical Data

Size [mm]	Max. perm. working load (tension)
18 - 71	5.0 kN
74 - 231	6.0 kN

Material: Stainless steel A4

Size range [mm]	Material W x th [mm]	Recommended clamping bolts	B [mm]	L [mm]	W [kg]	Quantity [pack]	Part number
18 - 22	25 x 3	M8 x 25	70	50	0.08	50	**172433**
24 - 28	25 x 3	M8 x 25	77	57	0.09	50	**172442**
30 - 34	25 x 3	M8 x 25	84	64	0.10	50	**172451**
35 - 37	25 x 3	M8 x 25	87	67	0.11	50	**172460**
40 - 44	25 x 3	M8 x 25	95	75	0.12	50	**172469**
47 - 51	25 x 3	M8 x 25	102	82	0.13	50	**172478**
54 - 58	25 x 3	M8 x 25	109	89	0.14	50	**172487**
59 - 63	25 x 3	M8 x 25	115	95	0.15	50	**172496**
67 - 71	25 x 3	M8 x 25	123	103	0.16	50	**173081**
74 - 78	30 x 3	M10 x 30	140	116	0.23	25	**172505**
81 - 85	30 x 3	M10 x 30	147	123	0.25	25	**173090**
86 - 90	30 x 3	M10 x 30	152	128	0.26	25	**172514**
94 - 98	30 x 3	M10 x 30	160	136	0.28	25	**173099**
102 - 108	30 x 3	M10 x 30	170	146	0.30	25	**173144**
108 - 114	30 x 3	M10 x 30	176	152	0.30	25	**172523**
116 - 122	30 x 3	M10 x 30	184	160	0.31	25	**173108**
133 - 140	40 x 4	M12 x 35	217	184	0.68	10	**172532**
145 - 152	40 x 4	M12 x 35	229	196	0.71	10	**173117**
159 - 169	40 x 4	M12 x 35	245	212	0.75	10	**172541**
170 - 180	40 x 4	M12 x 35	257	224	0.83	10	**173126**
198 - 207	40 x 4	M12 x 35	284	251	0.94	10	**172550**
210 - 219	40 x 4	M16 x 50	304	269	0.99	10	**172559**
222 - 231	40 x 4	M16 x 50	316	281	1.04	10	**173135**

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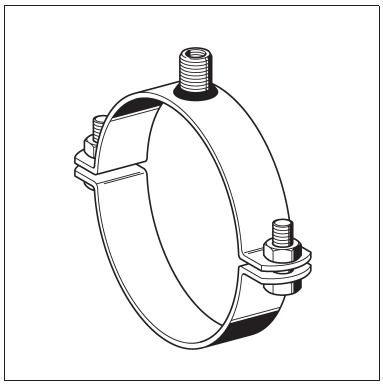
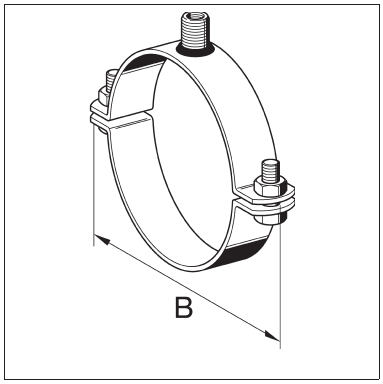
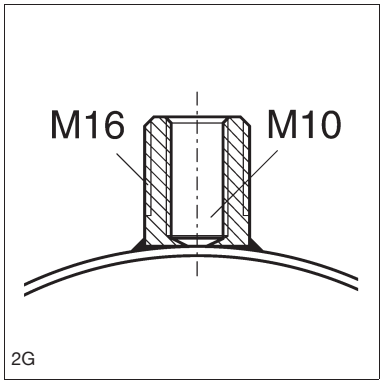
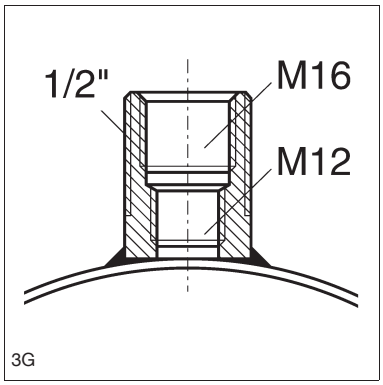








Stabil D-2G/-3G ss

Group: 1740

Application
For the installation of pipes required for all M&E services in industrial, residential and public buildings.

Scope of delivery
Two-piece pipe clamp with clamping bolts and nuts (supplied loose).

Installation
Suitable for single-point mounting either directly by means of a threaded rod or by connecting to a Sikla Threaded Tube up to 1" using an adapter.

Technical Data

Size range [mm]	Max. adm. load (tension)	Tightening torque [Nm]
14 - 71	5.0 kN	3
74 - 122	6.0 kN	5
133 - 207	8.0 kN	10
210 - 231	11.0 kN	20

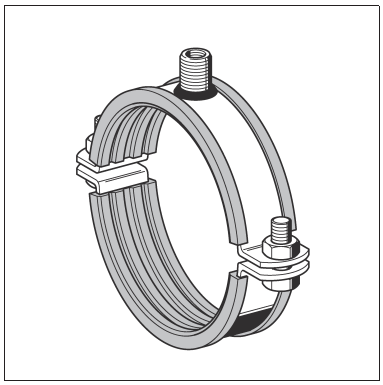
The recommended load is calculated using specific statistical methods relating to break load and is designed to restrict deflection to 1.5 mm or 2 % of the maximum applicable clamping diameter.

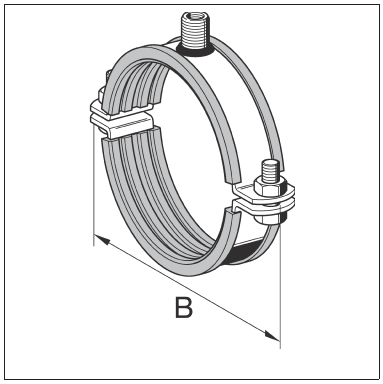
Material: Stainless steel A4

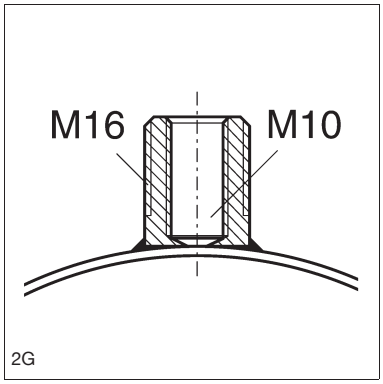
Approvals

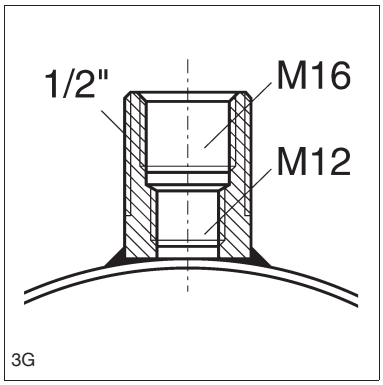
This product has been awared the RAL quality mark "pipe supports" and is subject to continuous external monitoring according to RAL GZ-655.

Size range [mm]	Thread connection	Material W x th [mm]	B [mm]	W [kg]	Quantity [pack]	Part number
18 - 22	2G	25 x 3	70	0.14	50	**172568**
24 - 28	2G	25 x 3	77	0.15	50	**172577**
30 - 34	2G	25 x 3	84	0.16	50	**172586**
35 - 37	2G	25 x 3	87	0.17	50	**172595**
40 - 44	2G	25 x 3	95	0.17	50	**172604**
47 - 51	2G	25 x 3	102	0.20	50	**172613**
54 - 58	2G	25 x 3	109	0.21	50	**172622**
59 - 63	2G	25 x 3	115	0.21	50	**172631**
67 - 71	2G	25 x 3	123	0.22	50	**172856**
74 - 78	2G	30 x 3	140	0.33	25	**172640**
81 - 85	2G	30 x 3	147	0.34	25	**172865**
86 - 90	3G	30 x 3	152	0.36	25	**172649**
94 - 98	3G	30 x 3	160	0.40	25	**172874**
102 - 108	3G	30 x 3	170	0.41	25	**173153**
108 - 114	3G	30 x 3	176	0.42	25	**172658**
116 - 122	3G	30 x 3	184	0.43	25	**172883**
133 - 140	3G	40 x 4	217	0.82	10	**172667**
145 - 152	3G	40 x 4	229	0.87	10	**172892**
159 - 169	3G	40 x 4	245	0.90	10	**172676**
170 - 180	3G	40 x 4	257	0.95	10	**172901**
198 - 207	3G	40 x 4	284	1.08	10	**172685**
210 - 219	3G	40 x 4	304	1.26	10	**172694**
222 - 231	3G	40 x 4	316	1.33	10	**172910**









Stabil D-2G/-3G ss w/Lining

Group: 1741

Application

For the installation of pipes required for all M&E services in industrial, residential and public buildings.
Particularly suitable for soundproof pipe installation according to DIN 4109.

Scope of delivery

Two-piece pipe clamp with clamping bolts and nuts (supplied loose).

Installation

Suitable for single-point mounting either directly by means of a threaded rod or by connecting to a Sikla Threaded Tube up to 1" using an adapter.

Technical Data

Size range [mm]	Max. adm. load (tension)	Tightening torque [Nm]
18 - 63	1,5 kN	3
74 - 114	2,0 kN	5
133 - 168	4,0 kN	10
198 - 219	6,0 kN	20

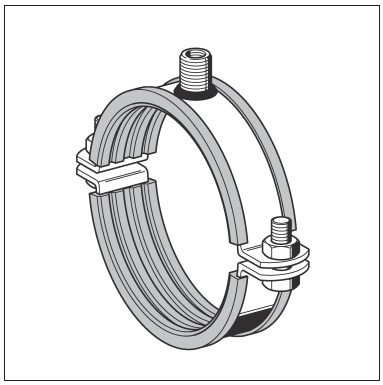
The recommended load is calculated using specific statistical methods relating to break load and is designed to restrict deflection to 1.5 mm or 2 % of the maximum applicable clamping diameter.

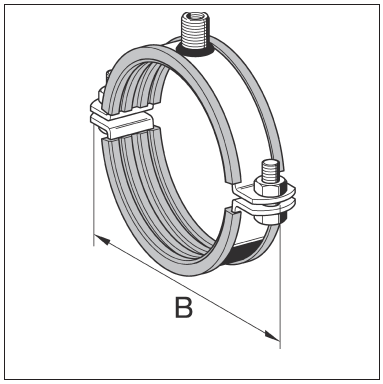
Material:
Pipe clamp: Stainless steel A4
Sound absorption lining: SBR/EPDM, black (see chapter "Sound Absorption Products")

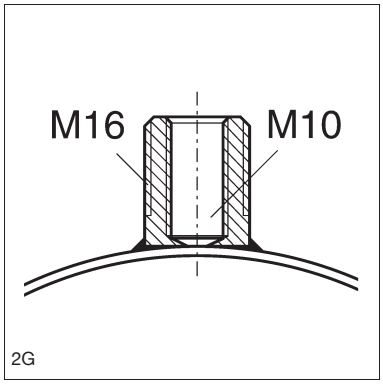
Approvals

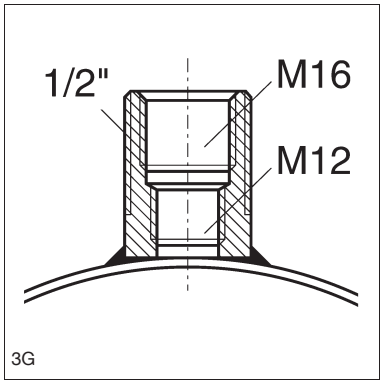
This product has been awared the RAL quality mark "pipe supports" and is subject to continuous external monitoring according to RAL GZ-655.

Size range [mm]	Thread connection	Material W x th [mm]	B [mm]	W [kg]	Quantity [pack]	Part number
18 - 20	2G	25 x 3	77	0.16	50	**172703**
21 - 24	2G	25 x 3	84	0.18	50	**172712**
25 - 29	2G	25 x 3	87	0.19	50	**172721**
31 - 35	2G	25 x 3	95	0.20	50	**172730**
38 - 42	2G	25 x 3	102	0.22	50	**172739**
46 - 50	2G	25 x 3	109	0.24	50	**172748**
51 - 55	2G	25 x 3	115	0.25	50	**172757**
58 - 63	2G	25 x 3	123	0.27	50	**172766**
74 - 78	2G	30 x 3	147	0.39	25	**172775**
86 - 90	3G	30 x 3	160	0.46	25	**172784**
100 - 106	3G	30 x 3	176	0.49	25	**173162**
108 - 114	3G	30 x 3	184	0.49	25	**172793**
133 - 140	3G	40 x 4	229	1.03	10	**172802**
158 - 168	3G	40 x 4	257	1.14	10	**172811**
198 - 207	3G	40 x 4	304	1.50	10	**172820**
210 - 219	3G	40 x 4	316	1.54	10	**172829**









Stabil D-2G/-3G ss w/Silicone Lining

Group: 1743

Application

For the installation of pipes required for all M&E services in industrial, residential and public buildings.
With silicone sound absorption lining. Particularly suitable for soundproof pipe installation according to DIN 4109.

Scope of delivery

Two-piece pipe clamp with clamping bolts and nuts (supplied loose).

Installation

Suitable for single-point mounting either directly by means of a threaded rod or by connecting to a Sikla Threaded Tube up to 1" using an adapter.

Technical Data

Size range [mm]	Max. adm. load(tension)	Tightening torque [Nm]
18 - 63	1,5 kN	3
74 - 114	2,0 kN	5
133 - 168	4,0 kN	10
198 - 219	6,0 kN	20

The recommended load is calculated using specific statistical methods relating to break load and is designed to restrict deflection to 1.5 mm or 2 % of the maximum applicable clamping diameter.

Material:

Pipe clamp	Stainless steel A4
Sound absorption lining	Silicone, red (see chapter "Sound Absorption Products")

Approvals

This product has been awared the RAL quality mark "pipe supports" and is subject to continuous external monitoring according to RAL GZ-655.

Size range [mm]	Thread connection	Material W x th [mm]	B [mm]	W [kg]	Quantity [pack]	Part number
18 - 20	2G	25 x 3	77	0.18	50	**172919**
21 - 24	2G	25 x 3	84	0.17	50	**172928**
25 - 29	2G	25 x 3	87	0.18	50	**172937**
31 - 35	2G	25 x 3	95	0.19	50	**172946**
38 - 42	2G	25 x 3	102	0.21	50	**172955**
46 - 50	2G	25 x 3	109	0.23	50	**172964**
51 - 55	2G	25 x 3	115	0.24	50	**172973**
58 - 63	2G	25 x 3	123	0.26	50	**172982**
74 - 78	2G	30 x 3	147	0.39	25	**172991**
86 - 90	3G	30 x 3	160	0.45	25	**173000**
100 - 106	3G	30 x 3	176	0.48	25	**173072**
108 - 114	3G	30 x 3	184	0.49	25	**173009**
133 - 140	3G	40 x 4	229	0.99	10	**173018**
158 - 168	3G	40 x 4	257	1.20	10	**173027**
198 - 207	3G	40 x 4	304	1.54	10	**173036**
210 - 219	3G	40 x 4	316	1.54	10	**173045**

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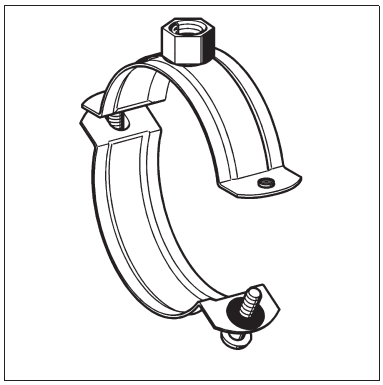


Duo Clamp SRS ss

Group: 1722

Application

Two-piece clamp with thread connection M8 or M10 for the installation of pipelines.

Scope of delivery

Supplied with two bolts particularly pre-screwed on one side and therefore ready for immediate installation. The clamping bolt on the open side is retained by a plastic washer, thus preventing any accidential unscrewing.

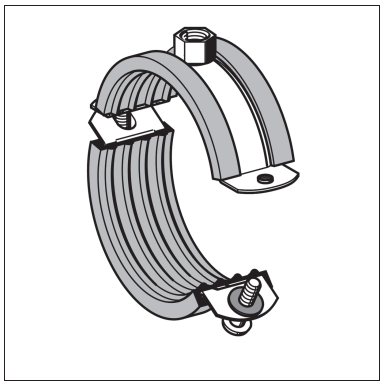
Technical Data

Type	Thread connection	Max. perm. working load (tension)	Tightening torque [Nm]
13 - 73	M8	0.6 kN	2
75 - 169	M10	2.5 kN	2

The recommended load is calculated using specific statistical methods relating to break load and is designed to restrict deflection to 1.5 mm or 2 % of the maximum applicable clamping diameter.

Material: Stainless steel A4

Size range [mm]	For pipe [NB]	Material W x th [mm]	W [kg]	Quantity [pack]	Part number
13 - 18	1/4" + 3/8"	20 x 1.5	0.04	100	**170587**
19 - 22	1/2"	20 x 1.5	0.05	100	**170602**
27 - 30	3/4"	20 x 1.5	0.05	100	**170611**
32 - 36	1"	20 x 1.5	0.05	100	**170620**
40 - 44	1 1/4"	20 x 1.5	0.06	50	**170639**
48 - 54	1 1/2"	20 x 1.5	0.07	50	**170648**
60 - 66	2"	20 x 1.5	0.08	50	**170657**
68 - 73	-	20 x 1.5	0.09	25	**173342**
75 - 80	2 1/2"	25 x 2.0	0.15	25	**170666**
84 - 89	3"	25 x 2.0	0.16	25	**170675**
102 - 108	-	25 x 2.0	0.19	25	**173351**
110 - 115	4"	25 x 2.0	0.20	25	**170684**
129 - 140	5"	25 x 2.5	0.26	25	**110882**
159 - 169	6"	25 x 2.5	0.31	25	**110883**



Duo Clamp SRS ss w/Lining

Group: 1722

Application

Two-piece pipe clamp with thread connection M8 or M10 and sound absorption lining for the installation of pipelines.

Scope of delivery

Supplied with two bolts pre-screwed on one side and therefore ready for immediate installation. The clamping bolt on the open side is retained by a plastic washer, thus preventing any accidental unscrewing.

Technical Data

Type	Thread connection	Max. perm. working load (tension)	Tightening torque [Nm]
12 - 64	M8	0.6 kN	2
67 - 170	M10	2.5 kN	2

Material:
Pipe clamp: Stainless steel A4
Sound absorption lining: SBR/EPDM, black (see chapter "Sound Absorption Products")

Size range [mm]	For pipe [NB]	Material W x th [mm]	W [kg]	Quantity [pack]	Part number
12 - 15	1/4"	20 x 1.5	0.05	100	**170693**
15 - 19	3/8"	20 x 1.5	0.05	100	**170709**
20 - 23	1/2"	20 x 1.5	0.06	100	**170718**
25 - 28	3/4"	20 x 1.5	0.06	100	**170727**
32 - 35	1"	20 x 1.5	0.07	100	**170736**
40 - 45	1 1/4"	20 x 1.5	0.08	50	**170745**
48 - 52	1 1/2"	20 x 1.5	0.09	50	**170754**
52 - 58	-	20 x 1.5	0.09	50	**173360**
60 - 64	2"	20 x 1.5	0.10	50	**170763**
67 - 72	-	25 x 2.0	0.19	25	**173369**
73 - 80	2 1/2"	25 x 2.0	0.19	25	**170772**
86 - 91	3"	25 x 2.0	0.22	25	**170781**
102 - 108	-	25 x 2.0	0.25	25	**173378**
110 - 115	4"	25 x 2.5	0.29	25	**170790**
135 - 143	5"	25 x 2.5	0.36	25	**110884**
149 - 161	-	25 x 2.5	0.38	25	**110885**
162 - 170	6"	25 x 2.5	0.41	25	**110886**

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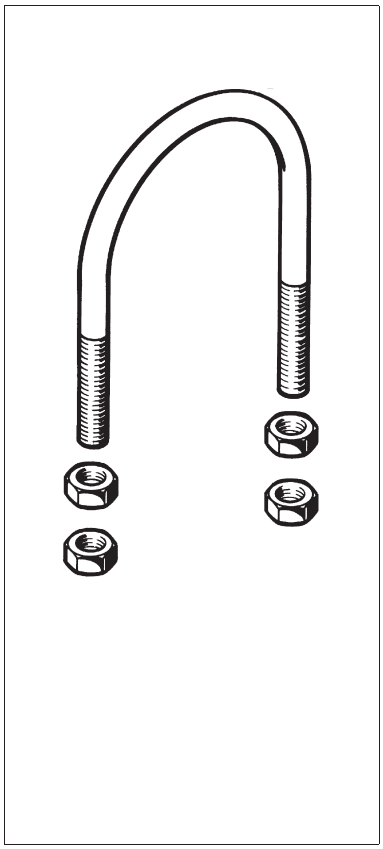
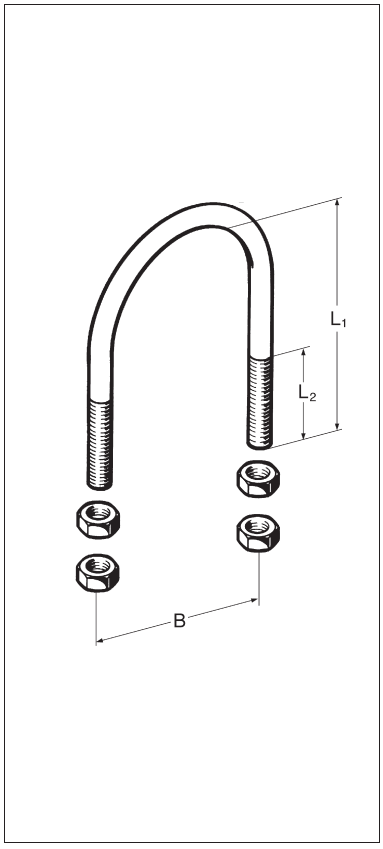




U Bolt RUB ss

Group: 1710

Application
For pipeline systems in industrial and residential buildings and Sprinkler installations meeting the VdS and FM standards.
For horizontal and vertical pipelines, the U-Bolts are applied as Fixed Points and as Guiding Supports.

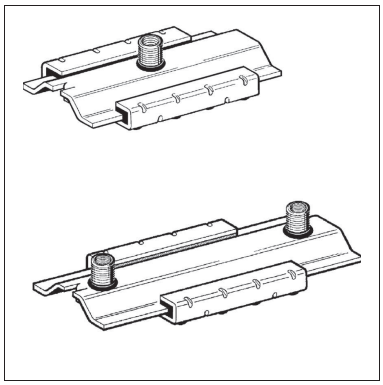
Scope of delivery
Four hexagon nuts included in loose form.

Installation
When used as Guided Support, nuts have to be arranged and fixed on both sides, at the top and at the bottom of the profile. Thereby the pipe should remain flexible. When used as Fixed Point the admissible loads of the connecting elements shouldn't exceed the bending loads of the U-bolt.

Technical Data
Material: Stainless steel A4
Specification: Similar to DIN 3570 standard

Approvals
Size NB 8" with M12 thread obtained a separate VdS Approval: No. G4810047

Type	NB	B [mm]	L_1 [mm]	L_2 [mm]	Thread	W [kg]	Quantity [pack]	Part number
21.3	1/2"	30	45	30	M 8	0.05	50	**102719**
26.9	3/4"	35	60	40	M 8	0.07	50	**102728**
33.7	1"	42	67	40	M 8	0.07	50	**102737**
42.4	1 1/4"	51	76	40	M 8	0.08	50	**102746**
48.3	1 1/2"	57	82	40	M 8	0.08	50	**102889**
60.3	2"	71	95	45	M 10	0.16	50	**102898**
76.1	2 1/2"	87	111	45	M 10	0.18	50	**102904**
88.9	3"	100	123	45	M 10	0.20	50	**102913**
114.3	4"	126	157	55	M 12	0.35	25	**102694**
108		121	151	55	M 12	0.34	50	**102922**
139.7	5"	152	180	55	M 12	0.39	25	**102931**
133		146	172	55	M 12	0.39	25	**102685**
159		172	197	55	M 12	0.42	25	**102940**
168.3	6"	180	207	55	M 12	0.44	10	**102700**
219.1	8"	233	267	55	M 12	0.55	10	**102959**
274.0	10"	302	314	70	M 20	1.88	10	**102968**

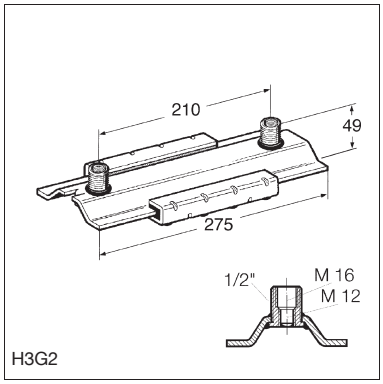


Slide Set GS H3G ss

Group: 1736

Application

Heavy-duty Slide Set for plant construction.
To be used preferably in combination with Sikla Pipe Clamps Stabil D-3G ss.
Various connection options of the pipe clamps depending on the respecitve load: M12, M16 or with $^1/_2$" adapters using the external thread (see Adapter AD f/f ss).
Especially suitable for ceiling and floor mounting solutions and as a guide for rising pipes. For wall mounting, we recommend the use of the Slide Set on Sikla Support Brackets. When mounting the Slide Set directly to a wall, the reduced permissible loads of the anchors are to be taken into consideration.
Sound absorption by means of slide rails with glass fibre reinforced polyamide.



H3G2

Installation

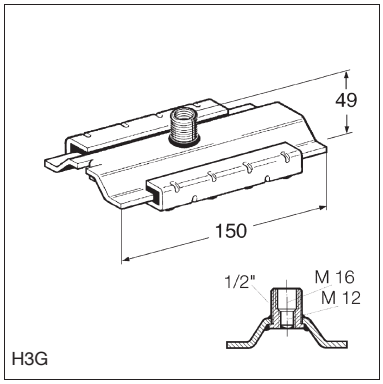
For pipes of NB 100 or larger having to be spaced at a distance from the Slide Set, or under conditions of reversed bending stress, the 3G triple thread nuts are to be secured by screwing on a $^1/_2$" stainless steel Locking Nut.

Technical Data

Permissible loads for ceiling mounting:	5.0 kN
Permissible load for floor mounting:	9.0 kN
Permissible bending moment for wall mounting* for H3G2:	350 Nm
Lever arm L_{max} :	400 mm
Max. sliding distance:	
H3G:	100 mm
H3G2:	135 mm
Temperature range:	130°C (permanent exposure)
Static friction coefficient μ_0 :	0.18
Sliding friction coefficient µ:	0.14

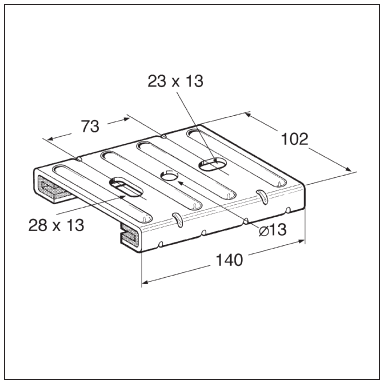
Material:
Metal components and slide rails: Stainless steel A4

* Permissible bending moment of the connecting element (threaded rod or threaded tube) may restrict the application!



H3G

Type	W [kg]	Quantity [pack]	Part number
H3G2	1.43	10	**170125**
H3G	1.10	10	**170143**



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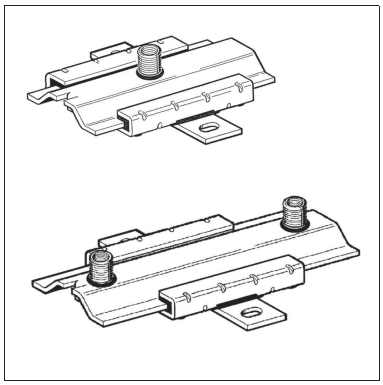
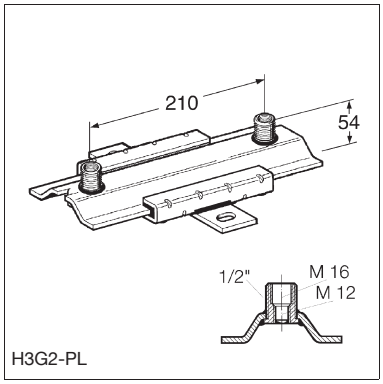


Slide Set GS H3G-PL ss

Group: 1736

Application

Heavy-duty Slide Set for plant construction, to be used on Sikla Channels, brick or concrete walls and on bearers. This Slide Set is especially suitable for bolted mounting to the building structure.
To be used preferably in combination with Sikla Pipe Clamps Stabil D-3G ss.
Various connection options of the pipe clamps depending on the respective load:
M12, M16 or with $^1/_2$" adapters ss using the external thread (see Adapter AD f/f ss).
Sound absorption by means of slide rails in glass fibre reinforced polyamide.
Especially suitable for ceiling and floor mounting solutions and as a guide for rising pipes.



H3G2-PL

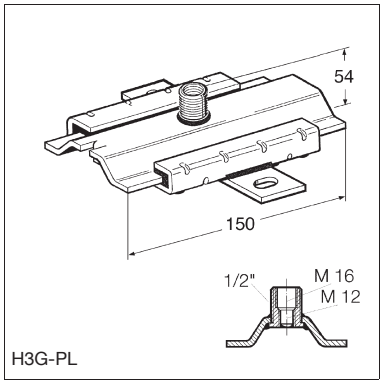
Installation

For pipes of NB 100 or larger having to be spaced at a distance from the Slide Set, or under conditions of reversed bending stress, the 3G triple thread nuts are to be secured by screwing on a $^1/_2$" stainless steel Locking Nut.

Technical Data

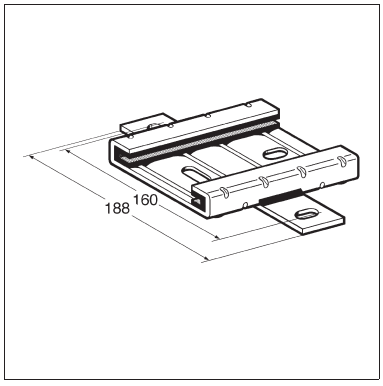
Permissible load for ceiling mounting:	5.0 kN
Permissible load for floor mounting:	9.0 kN
Lever arm $L_{max:}$	400 mm
Maximum sliding distance:	
H3G-PL:	100 mm
H3G2-PL:	135 mm
Temperature range:	130°C (permanent exposure)
Static friction coefficient μ_0 :	0.18
Sliding friction coefficient μ:	0.14

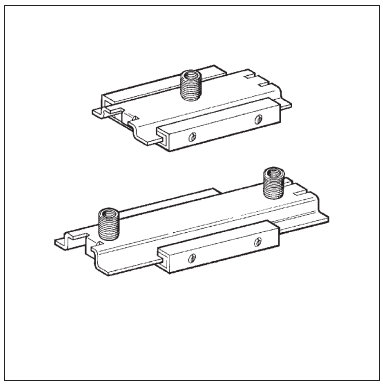
Material:
Metal components and slide rails: Stainless steel A4

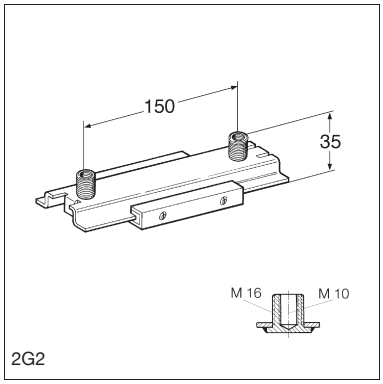


H3G-PL

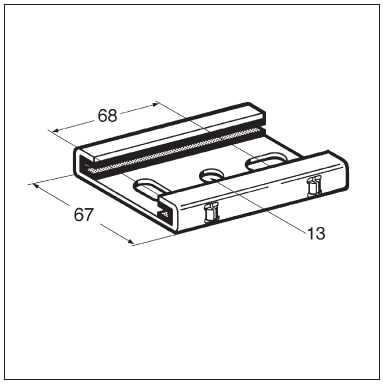
Type	W [kg]	Quantity [pack]	Part number
H3G2-PL	1.77	10	**170134**
H3G-PL	1.39	10	**170152**

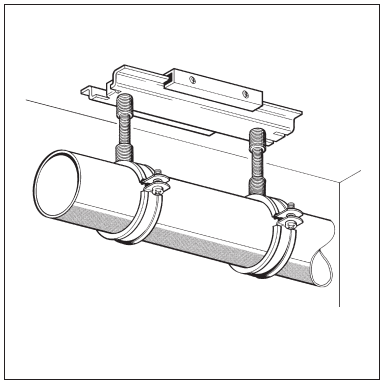






2G2





Slide Set GS 2G ss

Group: 1736

Application

Slide Set for single and double mounting of mechanical equipment. To be used preferably in combination with Sikla Pipe Clamps Stabil D-2G ss. Various connection options with these pipe clamps ranging between M10 and R1" using adapters (see Adapters AD f/f ss)
Sound absorption by means of slide rails of glass fibre reinforced PA.

Technical Data

Permissible load for ceiling mounting:	0.6 kN
Permissible load for floor mounting:	1.2 kN
Lever arm L_{max} :	300 mm
Max. sliding distance Type 2G:	85 mm
Max. sliding distance Type 2G2:	140 mm
Temperature range:	130°C (permanent exposure)
Static friction coefficient μ_0 :	0.18
Sliding friction coefficient μ:	0.14

Material:

Metal components and Slide rails:	Stainless steel A4

Type	W [kg]	Quantity [pack]	Part number
2G	0.37	25	**170161**
2G2	0.49	25	**170189**

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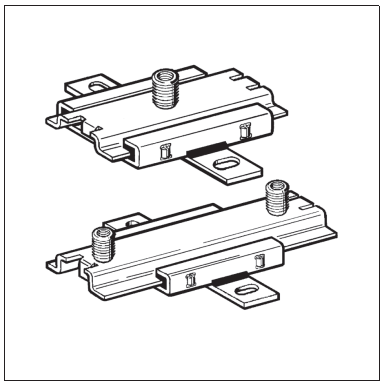
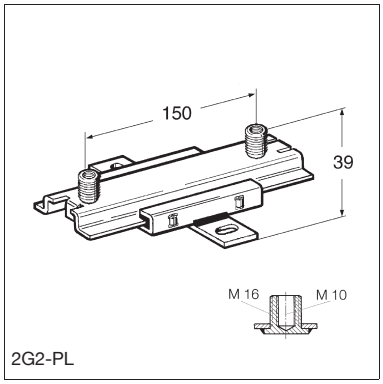
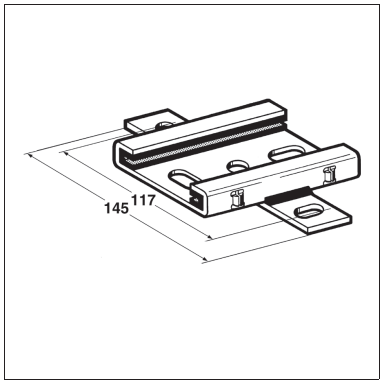




2G2-PL



Slide Set GS 2G-PL ss

Group: 1736

Application

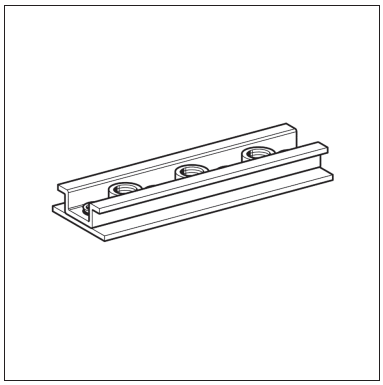
Slide Set for single and double mounting of mechanical equipment, to be used on Sikla Channels, brick or concrete walls and on bearers. To be used preferably in combination with Sikla Pipe Clamps Stabil D-2G ss. Various connection options with these pipe clamps ranging between M10 and R 1" using adapters (see Adapters AD f/f ss).
Sound absorption by means of glass fibre reinforced PA.

Technical Data

Permissible load for ceiling mounting:	0.6 kN
Permissible load for floor mounting:	1.2 kN
Lever arm L_{max} :	300 mm
Max. sliding distance Type 2G-PL:	85 mm
Max. sliding distance Type 2G2-PL:	140 mm
Temperature range:	130°C (permanent exposure)
Static friction coefficient μ_0 :	0.18
Sliding friction coefficient μ:	0.14

Material:
Metal components and Slide rails: Stainless steel A4

Type	W [kg]	Quantity [pack]	Part number
2G-PL	0.52	25	**170170**
2G2-PL	0.63	25	**170198**

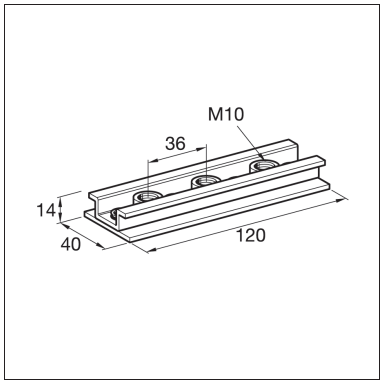


Slide Element GS 41 ss

Group: 1736

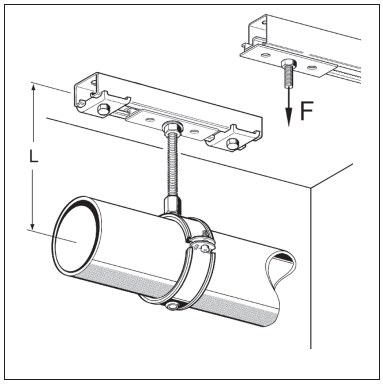
Application

Slide Element for use in Sikla Channels MS 41 ss. For single and double mounting options.
The permissible loads may restrict the arrangement of the Slide Elements.The sliding distance is determined by the length of the rail. Holding Brackets are to be used for securing the Slide Element.
Any option in combination with Duo Clamps and Stabil Clamps ss A4 may be realised. Various connection options with pipe clamps from M12 up to R $^{3}/_{4}$"
For these connection options, the corresponding Mounting Plate Stabil could be screwed directly to the Slide Element by means of bolts M10x30.
Suitable for floor and ceiling mounting as well as guiding support for rising pipes.



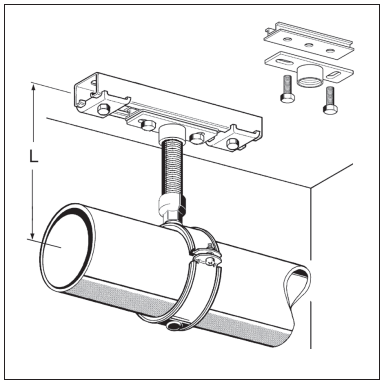
Technical Data

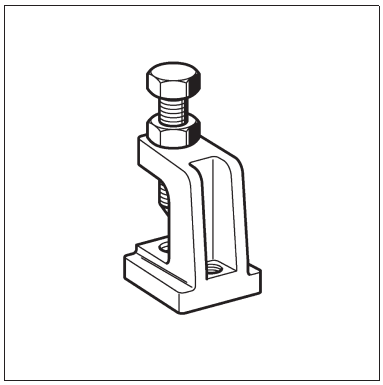
Permissible load Overhead mounting:	
Single mounting:	6 kN
Double mounting:	8 kN
The permissible load capacity of the channel has to be respected.	
Permissible load Floor mounting:	
Single/ Double mounting:	4 kN
Single mounting with Mounting Plate:	8 kN
Lever arm L_{max} for single mounting:	350 mm
Static friction coefficient μ_0 :	0.16
Sliding friction coefficient μ:	0.14
Material:	Stainless steel A4

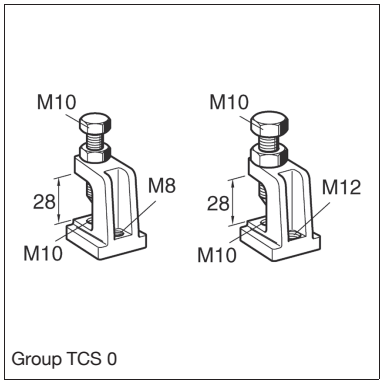


The permissible bending moment of the connection elements (threaded rod or threaded tube) may restrict the application!

Type	Thread connection	W [kg]	Quantity [pack]	Part number
41 - M10	M10	0.18	10	**190667**







Group TCS 0

Beam Clamp TCS 1 ss

Group: 1737

Application

Heavy-duty connection element, which in combination with grub screws (M8 or M10), are suitable for mounting pipes, ducts and equipment to steel beams (I-, T-, U and angle steel beams).

- The combination with a Universal Joint ss provides for vertically aligned attachment to inclined beams.
- Can serve as single mounting element, for installing crossbars and for fixing cantilever structures.
- Due to their special base profile, Beam Clamps TCS can also be slid along and retained in the opening of Sikla Channels MS 41.

Scope of delivery

Pre-assembled with clamping bolt and locking nut.

Installation

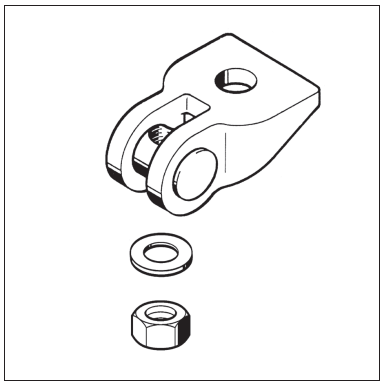
Tighten the clamping bolt of the Beam Clamp first by hand, then tighten down with a spanner according to the mounting instructions. The hardened point of the clamping bolt will penetrate the comparatively soft material of the beam, ensuring a solid and highly secure connection. Tighten the locking nut for securing the installation.
Use an additional Holding Bracket HK 41 for mounting in the aera of the cutting edge of a channel.
Advice: Read relevant mounting instructions before installation!

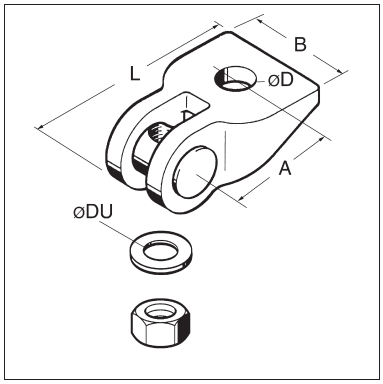
Technical Data

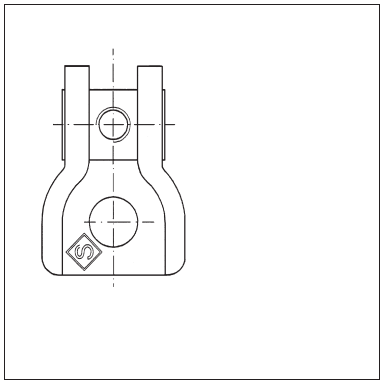
Working load: 5.0 kN
This nominal load applies to new Beam Clamps fixed to undamaged beam flanges only.

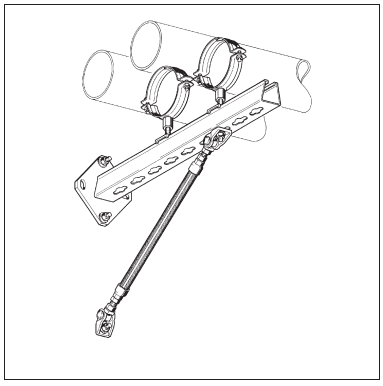
Material: Stainless steel A4

Type	Connection	Clamping range on parallel flange [mm]	W [kg]	Quantity [pack]	Part number
TCS 1 M10/M8	M10/M8	26	0.23	50	**170231**
TCS 1 M10/M12	M10/M12	26	0.22	50	**110766**









Universal Joint UG ss

Group: 1742

Application

Universal connection for attachment to non-horizontal components, allowing infinitely variable angle adjustment.
May be fixed directly to the building surfaces, Beam Clamps, channels, etc.
Typical uses would include easy on-site manufacture of various tie rod assemblies to support brackets, or reinforcement struts for sliding and fixed point applications:

- Infinitely variable angle adjustment
- Length and height adjustment via rotation of the grub screw in the threaded pivot head.
- Pivot head caulked, prevents from falling out.

Scope of delivery

With washer and locking nut.

Installation

Screw the grub screw completely into the pivot head
(visual control).
Fix the adjusted angle by tightening the supplied nut against the washer.

Technical Data

Type	Working load [kN]	Washer Ø DU [mm]	Nut
UG M8	5.8	10.5	Hexagon nut
UG M10	8.0	10.5	Hexagon nut
UG M12	13.0	16.5	Hexagon nut
UG M16	13.0	16.5	Hexagon nut

Material: Stainless steel A4

Type	Pivot head	A [mm]	B [mm]	Ø D [mm]	L [mm]	W [kg]	Quantity [pack]	Part number
UG M8	M8	26	40	12.5	51	0.13	50	**171686**
UG M10	M10	26	40	12.5	51	0.13	50	**171695**
UG M12	M12	33	50	17.0	71	0.39	25	**171704**
UG M16	M16	33	50	17.0	71	0.37	25	**171713**

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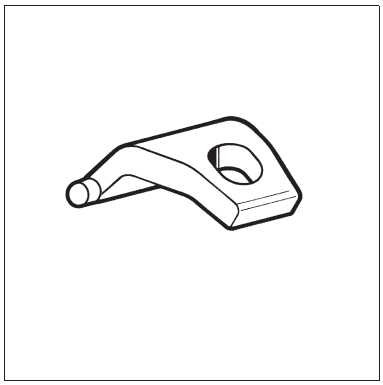
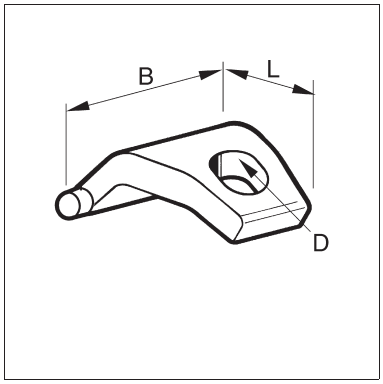
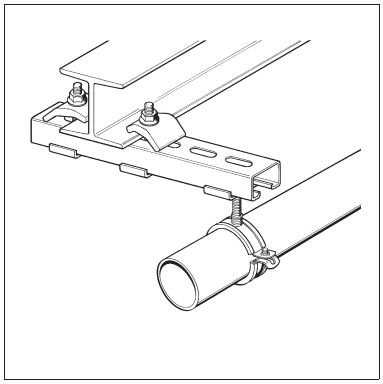
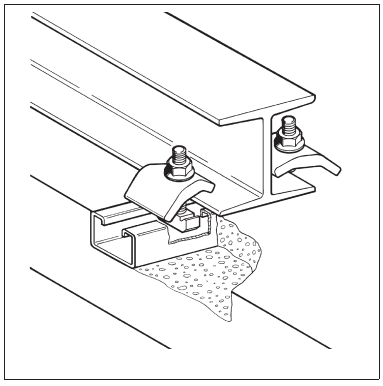








Beam Clip P ss

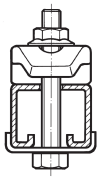
Group: 1731

Application

Universal clamping element for bi-lateral attachment of crossbars for pipe runs, ducts, cable lines and equipment to steel beams.
The maximum clamping range may be extended by up to 10 mm by using spacers. Any thicker spacers should be welded to the crossbar.

Installation

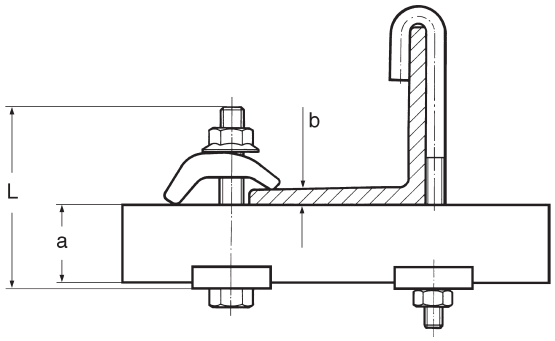
Determination of the required length L_{min} of the pass-through bolt:



Hexagon Bolt M12 ss

Pass-through Hexagon bolt ss and Holding Bracket ss:
L_{min} = a + b + 43 mm

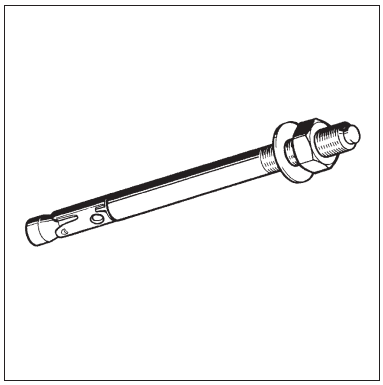
Tightening torque ± 10%
P2: 85 Nm

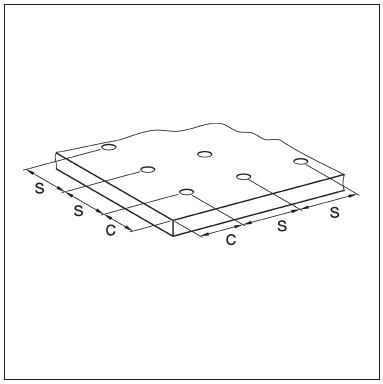


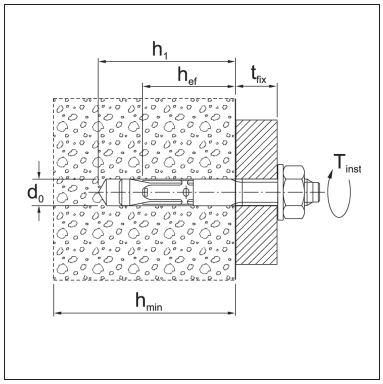
Technical Data

Working load: 5 kN
Material: Stainless steel A4

Type	Size range [mm]	Ø D [mm]	L [mm]	B [mm]	W [kg]	Quantity [pack]	Part number
P2	1 - 33	13	62	50	0.23	25	**163435**







Bolt Anchor AN BZ plus ss

Group: 1704

Application

Anchor for push-through and mounting in M&E services and plant construction in concrete tensile zones.
This anchor combines high admissible loads with little edge and centre distances.
Suitable for attaching pipelines, channels, brackets, etc. in closed room and outside section.

- No special drill required. Bore dia. = thread size
- Simple and quick mounting due to its push-through concept
- Drive-in hammer zone for preventing any thread damage

Scope of delivery

Supplied with washer and hexagon nut.

Installation

1. Drill bore hole according to the minimum bore hole depth perpendicularly to the surface.
2. Remove dirt from the hole.
3. Drive the anchor into concrete up to its embedment mark.
4. Immediately resilient after tightening with the torque wrench T_{inst} indicated in the table below. Advices of the mounting instruction are to be respected!

Technical Data

Type	M8	M10	M12	M16
Perm. load [1] tension C20/25 [2] [kN]	2.4	4.3	7.6	11.9
C25/30 [2] [kN]	2.6	4.7	8.3	13.1
C30/37 [2] [kN]	2.9	5.2	9.3	14.5
C40/50 [2] [kN]	3.4	6.0	10.8	16.8
C50/60 [2] [kN]	3.7	6.6	11.8	18.5
Perm. load [1] oblique C20/25 [2] [kN]	7.4 (5.0)[3]	11.4 (6.5)[3]	17.1	26.9
≥ C25/30 [2] [kN]	7.4 (5.5)[3]	11.4 (7.2)[3]	17.1	29.6
Perm. bending moment [1] [Nm]	14.9 (13.7)[3]	29.7 (28)[3]	52.6	133.1
Min. thickness of component h_{min} ≥ [mm]	100	120	140	160
(3 h_{ef}) Charact. centre distance s_{cr} [mm]	138	180	210	255
(1,5 h_{ef}) Charact. edge distance c_{cr} [mm]	69	90	105	127.5
Min. centre distance s at/edge distance c ≥ [mm]	40/70	50/75	60/100	60/100
Min. edge distance c at/centre distance s ≥ [mm]	40/80	55/90	60/140	60/180
Effective Anchoring depth h_{ef} [mm]	46 (35)[3]	60 (42)[3]	70	85
Nominal diameter of drill d_0 [mm]	8	10	12	16
Depth of bore hole h_1 ≥ [mm]	60 (55)[3]	75 (65)[3]	90	110
Anchoring torque T_{inst} [Nm]	20 (15)[3]	35 (30)[3]	50	110
Perm. load tension [4] for fire exposure				
Perm. load R30 perm. F [kN]	1.3	2.3	4.0	6.3
Perm. load R60 perm. F [kN]	1.3	2.3	4.0	6.3
Perm. load R90 perm. F [kN]	1.3	2.3	4.0	6.3
Perm. load R120 perm. F [kN]	1.0	1.8	3.2	5.0

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[1] Loads for single anchors without influence of edge distances
[2] Cracked concrete (option 1)
[3] Value in brackets is valid for types marked *.
[4] Consider edge and centre distances under fire exposure accord. to approval

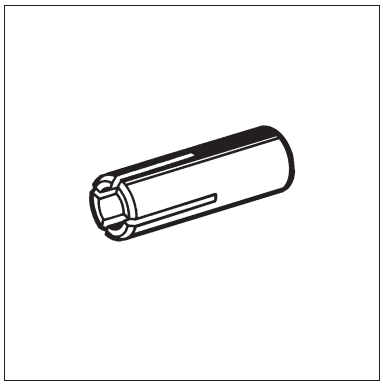
The safety factor accord. to ETAG is respected. Values of the mentioned approval are valid and could be seen in the latest issue under www.sikla.com/service/downloads.

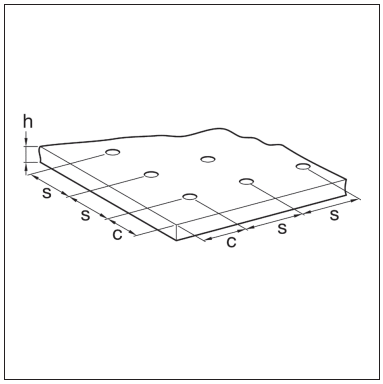
Material: Stainless steel A4/316

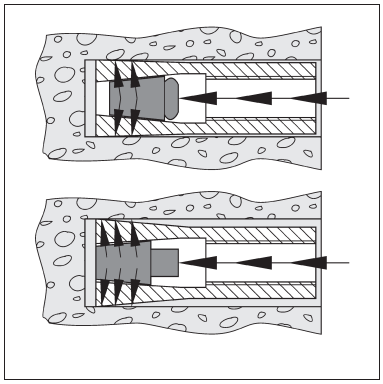
Approvals
ETA Approval number: ETA-10/0259
FM Approval for M10, M12, M16
VdS compliant for all sizes
Shock approval issued by the Federal Office for Civil Defence, Bern (Switzerland)

The types marked * are not part of the approvals.

Type	Thread connection	t_{fix} = Max. effective length [mm]	Total length [mm]	W [kg]	Quantity [pack]	Part number
8/5/50 A4*	M8	5	50	0.02	100	**110551**
8/10/75 A4	M8	10	75	0.03	100	**110457**
8/30/95 A4	M8	30	95	0.04	100	**110552**
8/50/115 A4	M8	50	115	0.04	100	**110458**
10/10/60 A4 *	M10	10	60	0.05	50	**110553**
10/10/90 A4	M10	10	90	0.06	50	**110459**
10/15/95 A4	M10	15	95	0.06	50	**110554**
10/30/110 A4	M10	30	110	0.07	50	**110555**
10/50/130 A4	M10	50	130	0.08	50	**110460**
10/100/180 A4	M10	100	180	0.10	50	**110461**
12/15/110 A4	M12	15	110	0.10	25	**110462**
12/20/115 A4	M12	20	115	0.10	25	**110556**
12/30/125 A4	M12	30	125	0.11	25	**110557**
12/50/145 A4	M12	50	145	0.13	25	**110558**
12/85/180 A4	M12	85	180	0.15	25	**110559**
16/25/145 A4	M16	25	145	0.23	20	**110560**
16/50/170 A4	M16	50	170	0.27	20	**110561**







Drive Plug AN ss

Group: 1702

Application

Hammerset Anchor for multiple attachment in cracked and single attachment in non-cracked concrete.
Suitable for fixing pipelines, channels, etc. meeting the respective approval requirements. To be used in structural parts under dry indoor conditions, as well as outdoor constructions (including industrial ambiance and coastal areas) or damp locations provided no special aggressive conditions are given.

- No special drill is required
- Setting Tool for Drive Plug is to be used as setting tool for distance-controlled forced expansion
- Suitable for put-before assembly

Installation

As setting tool the respective expansion cone for Drive plug is to be used.
The "intelligent" expansion cone facilitates the assembly with drill hole tolerances in the bore hole diameters or with different concrete.
Due to the controlled expansion the needed edge and centre distances are considerably reduced.

Technical Data

General installation data:

Anchor size	M8x30	M8x40	M10	M12	M16
Nominal dia. of drill d_0 = [mm]	10	10	12	15	20
Depth of drill hole h_0 = [mm]	30	40	40	50	65
Tightening torque when anchoring T_{inst} = [Nm]	8	8	15	35	60
Pass-through hole in component to be joined d_f ≤ [mm]	9	9	12	14	18
Thread length L_{th} [mm]	13	20	15	18	23
Minimum screw-in depth L_{sdmin} [mm]	9	9	11	13	18
Minimum thickness of component h_{min} [mm]	100	100	130	140	160
Min. centre distance s_{min} [mm]	60	80	100	120	150
Min. edge distance c_{min} [mm]	95	95	135	165	200

Extract from the approval specifications ETA-05/0117 cracked concrete / multiple fixation of non-bearing systems:

Anchor size	M8x30	M8x40	M10	M12
Perm. load for single anchor C20/25-C50/60 [kN]	1.7	2.0	2.0	2.4
Perm. bending moment (A4-70) M_{perm} [Nm]	11.9	11.9	23.8	42.1
Characteristical centre distance s_{cr} [mm]	180	210	170	200
Characteristical edge distance c_{cr} [mm]	90	105	85	100
Loads under fire exposure				
Perm. load R30 perm. F [kN]	0.9	0.9	1.5	1.5
Perm. load R60 perm. F [kN]	0.9	0.9	1.5	1.5
Perm. load R90 perm. F [kN]	0.9	0.9	1.5	1.5
Perm. load R120 perm. F [kN]	0.4	0.4	1.0	1.2

Extract from approval specifications ETA-10/0257 non-cracked concrete:

Anchor size	M8x30	M8x40	M10	M12	M16
Perm. tensile load C20/25 [kN]	3.3	3.6	6.1	8.5	12.6
Lateral tension perm. V ≥ C20/25 [kN]	4.6	4.6	6	11.9	19.2
Bending moments perm. M [Nm]	11.9	11.9	23.8	42.1	106.7

The values of the mentioned approvals are valid and could be seen in their latest issue under www.sikla.com/service/downloads.

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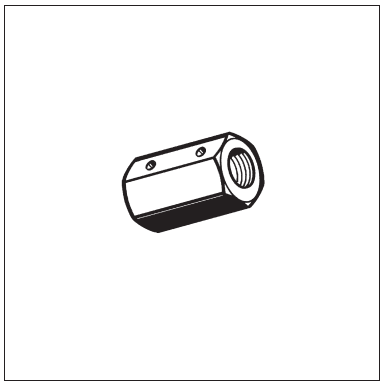
Material: Stainless steel A4 (316)

Approvals
For the multiple fixation of non-structural systems Sikla Approval ETA-10/0258 (M8-M12), for anchorage in non-cracked concrete Sikla Approval ETA-10/0257 (M8-M16), Fire Protection Certification, VdS-conform, FM-Approval ≥ M10

Type	Drill hole Ø x depth [mm]	Thread Ø x length [mm]	W [kg]	Quantity [pack]	Part number
M8 x 30	10 x 30	M8 x 13	0.01	100	**104906**
M8 x 40	10 x 40	M8 x 20	0.01	100	**153593**
M10 x 40	12 x 40	M10 x 15	0.02	50	**104915**
M12 x 50	15 x 50	M12 x 18	0.04	50	**104924**
M16 x 65	20 x 65	M16 x 23	0.10	25	**104933**



Rod Coupling AD f/f ss

Group: 1732

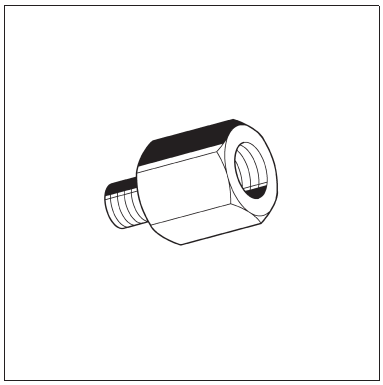
Application

Joining element for two threaded rods. With two inspection holes (dia. 5 mm) for examining the screwed-in length of thread.

Technical Data

Material: Stainless steel A4

Type	Length [mm]	A/F	W [kg]	Quantity [pack]	Part number
M8	30	13 mm	0.02	100	**104818**
M10	30	17 mm	0.04	100	**104827**
M12	35	17 mm	0.04	50	**104836**
M16	45	22 mm	0.08	50	**104845**



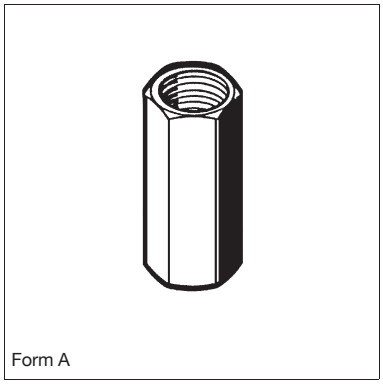
Reducer AD f/m ss

Group: 1713

Technical Data

Material: Stainless steel A4

Type	Female thread [mm]	Male Thread [mm]	Total length [mm]	W [kg]	Quantity [pack]	Part number
12/8	M12 x 13	M8 x 8	30.0	0.03	50	**113652**
12/10	M12 x 13	M10 x 8	30.0	0.03	50	**113661**



Form A

Adapter AD f/f ss

Group: 1733

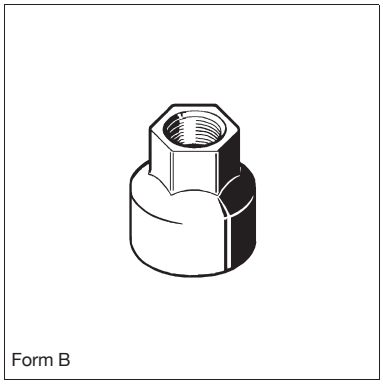
Application

Additional connection options for all Sikla stainless steel Pipe Clamps equipped with 3G triple thread nuts.

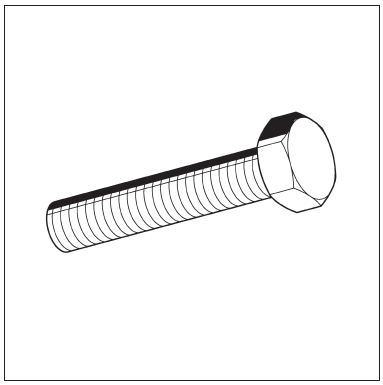
Technical Data

Material: Stainless steel A4

Type	Form	Length [mm]	A/F [mm]	W [kg]	Quantity [pack]	Part number
M16/M12	A	35	19	0.04	25	**170295**
M16/M16	A	30	19	0.03	50	**170286**
$^1/_2$"/M16	A	40	24	0.08	10	**178373**
$^1/_2$"/$^1/_2$"	A	35	24	0.06	25	**170301**
$^3/_4$"/M16	A	35	32	0.08	10	**178382**
$^3/_4$"/$^1/_2$"	A	35	32	0.11	10	**170310**
1"/M16	B	40	22	0.12	10	**178364**
1"/$^1/_2$"	B	40	24	0.16	10	**170338**



Form B



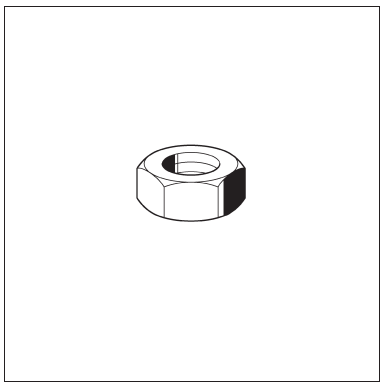
Hexagon Bolt SKT ss

Group: 1775

Technical Data

Type: DIN 933
Material: Stainless steel A4

Type	Length [mm]	W [kg]	Quantity [pack]	Part number
M6/25	25	0.01	100	**104359**
M8/25	25	0.01	100	**146131**
M8/35	35	0.02	100	**104669**
M10/30	30	0.03	100	**104678**
M10/45	45	0.03	100	**104377**
M12/30	30	0.04	100	**151397**
M12/35	35	0.04	100	**146140**
M12/50	50	0.05	100	**104368**
M16/25	25	0.07	100	**172280**
M16/30	30	0.08	100	**172289**
M16/50	50	0.10	100	**151643**



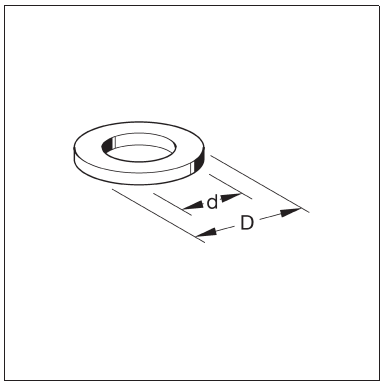
Hexagon Nut NT ss

Group: 1771

Technical Data

Type: DIN 934
Material: Stainless steel A4

Type	W [kg]	Quantity [pack]	Part number
M6	0.01	100	**104696**
M8	0.01	100	**104702**
M10	0.01	100	**104711**
M12	0.02	100	**104720**
M16	0.03	100	**104748**



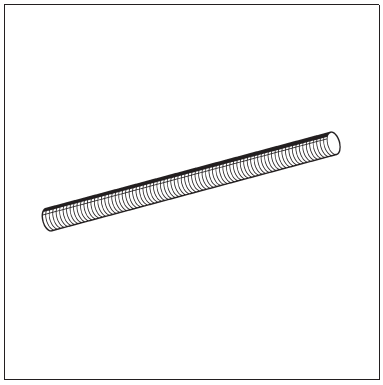
Washer US ss

Group: 1772

Technical Data

Material: Stainless steel A4

Type	DIN	D [mm]	d [mm]	s [mm]	W [kg]	Quantity [pack]	Part number
8/125	125	16.0	8.4	1.6	0.01	100	**104766**
8/9021	9021	24.0	8.4	2.0	0.01	100	**172019**
8/40	-	40.0	8.4	3.0	0.01	100	**111865**
10/125	125	20.0	10.5	2.0	0.01	100	**104775**
10/9021	9021	30.0	10.5	2.5	0.01	100	**171740**
10/40	-	40.0	10.5	3.0	0.01	100	**111866**
12/125	125	24.0	13.0	2.5	0.01	100	**104784**
12/40	-	40.0	13.0	3.0	0.01	100	**111867**
16/125	125	30.0	17.0	3.0	0.01	100	**104809**
16/9021	9021	50.0	17.0	3.0	0.04	100	**172028**



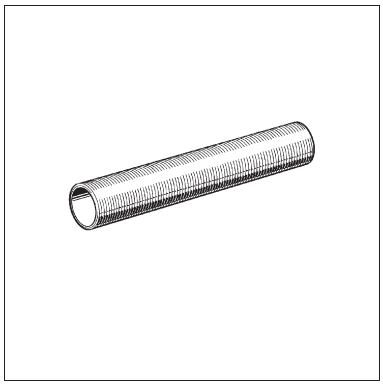
Threaded Rod GST ss

Group: 1717

Technical Data

Material: Stainless steel A4

Type	Length	Weight [kg/m]	Qty. [m]	Part number
M8 x 1000	1 m	0.31	1	**104854**
M8 x 3000	3 m	0.31	3	**172253**
M10 x 1000	1 m	0.50	1	**104863**
M12 x 1000	1 m	0.71	1	**104872**
M16 x 1000	1 m	1.32	1	**104881**
M16 x 2000	2 m	1.32	2	**171947**



Threaded Tube GR ss

Group: 1709

Application

To be used as a direct connecting element
- between Mounting Plate ss and stainless steel pipe clamp or
- as a support rod in combination with Universal Joints.

Scope of delivery

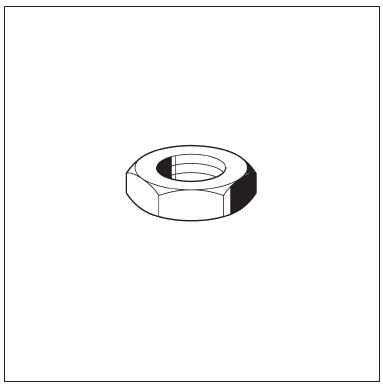
Standard length = 2 m; shorter sections available on request.

Technical Data

Thread according to DIN EN ISO 228.

Material: Stainless steel A4

Type	Length	Weight [kg/m]	Qty. [m]	Part number
G 1/2"	2 m	0.79	2	**170347**
G 3/4"	2 m	1.03	2	**170356**
G 1"	2 m	1.59	2	**170365**



Locking Nut NT G ss

Group: 1709

Application

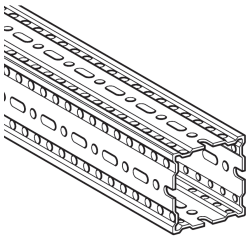
Suitable for the Sikla Threaded Tubes stainless steel and thread connectors (such as mounted on Slide Sets).

Technical Data

Material: Stainless steel A4

Type	W [kg]	Quantity [pack]	Part number
G 1/2"	0.03	10	**177221**
G 3/4"	0.05	10	**177230**
G 1"	0.08	10	**177239**

Beam Section TP F 80



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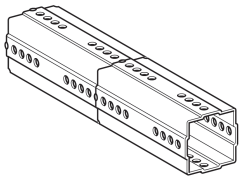
Square Coupling PK F 80 HCP



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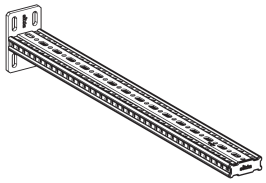
Cantilever Bracket AK F 80/30



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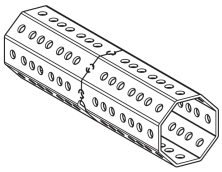
Octagonal Coupling PK F 80 HCP



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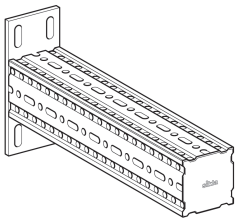
Cantilever Bracket AK F 80



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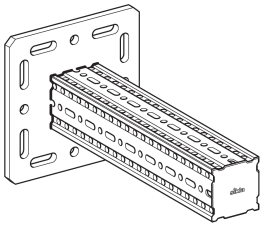
Beam Bracket TKO F 80



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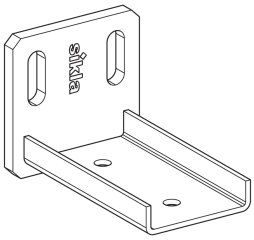
End Support STA F 80/30 E



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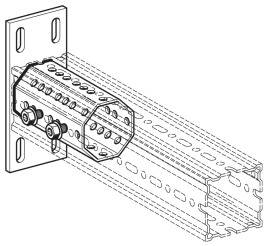
End Support STA F 80



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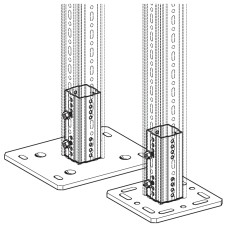
End Support WBD F 80



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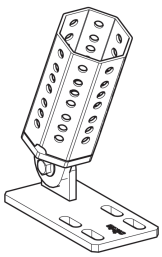
Joint JOI F 80 HCP



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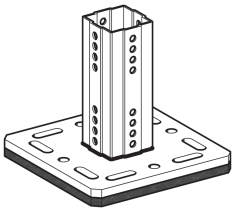
Insulated Foot Plate SHB F 80



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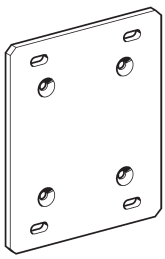
Joining Plate AP



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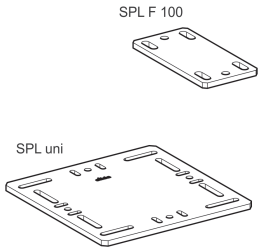
Welding Plate SPL



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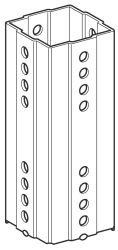
Welding Adapter ASA F 80 Square



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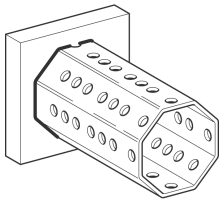
Welding Adapter ASA F 80 Octagon



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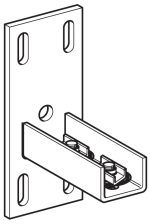
Channel Adapter SA F 80-41



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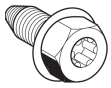
Self Forming Screw FLS



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Assembly Set PS

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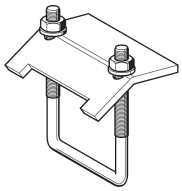
U-Holder SB F 80



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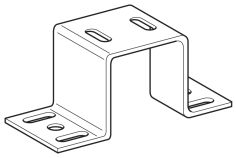
Beam Section Holder TPH F 80



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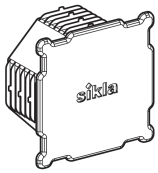
End Cap ADK F 80



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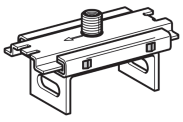
Slide Set GS F 80 2G



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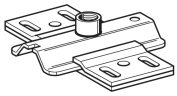
Slide Set GS F 80 1G Z



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Mounting Plate GPL F 80

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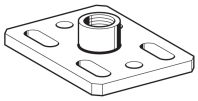
Mounting Plate GPL F 80 Stabil HCP



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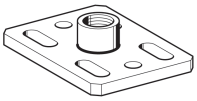
Mounting Plate GPL F 80 Stabil



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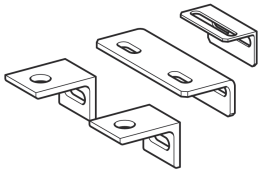
U Bolt Fastening UB F



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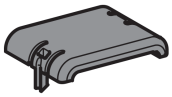
Pad U-UB F 80



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Threaded Tube GR

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Locking Nut NT G

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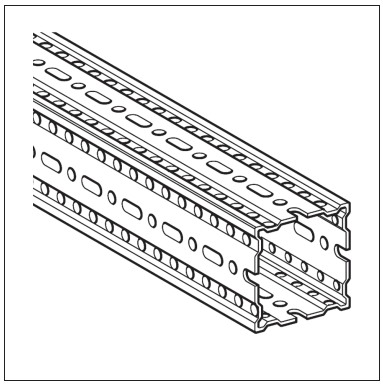
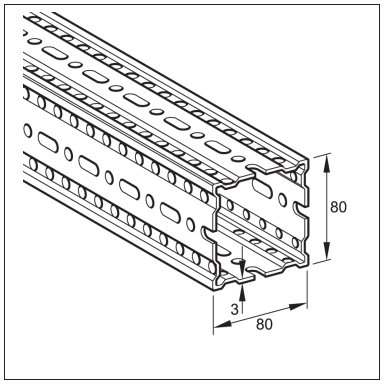
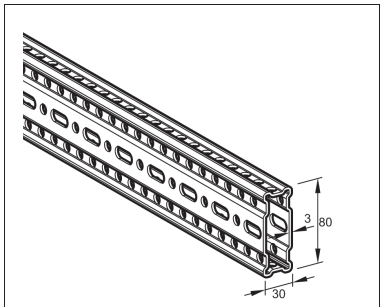
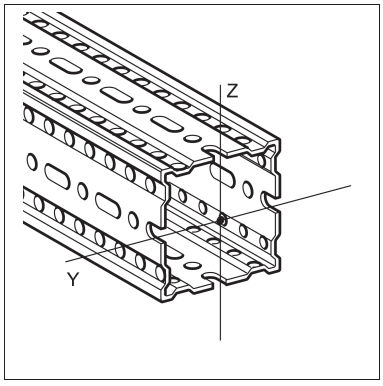






TP F 80/30



Beam Section TP F 80

Group: A410

Application

Galvanised hollow-box-section for fabrication of steel frames. Designed for both simple two-dimensional supports and complex volumetric arrangements. Holes designed to receive Self Forming Screw FLS in conjunction with the relevant component.

Technical Data

Type	Section modulus [cm^3]	Moment of inertia [cm^4]	Radius of inertia [cm]	Torsional moment It [cm^4]	Cross section A [cm^2]
TP F 80	Wy: 15.87 Wz: 15.87	Iy: 63.49 Iz: 63.49	iy: 2.95 iz: 2.95	98.22	7.28
TP F 80/30	Wy: 8.36 Wz: 4.03	Iy: 33.47 Iz: 6.05	iy: 2.76 iz: 1.17	18.66	4.37

Mechanical properties shown above take into account perforations.

Material: Steel, hcp

Type	Weight [kg/m]	Qty. [m]	Part number
TP F 80	6.4	6	**192539**
TP F 80/30	4.3	6	**113407**

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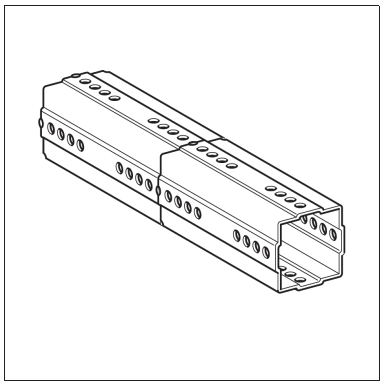
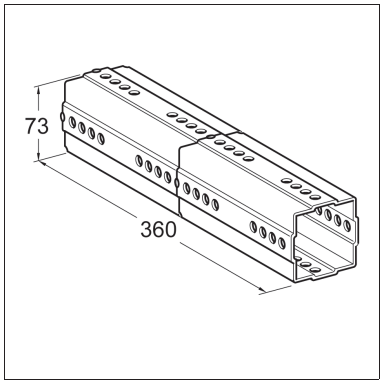
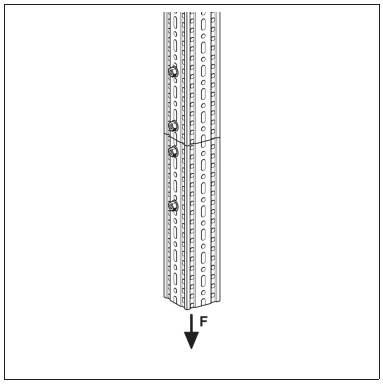
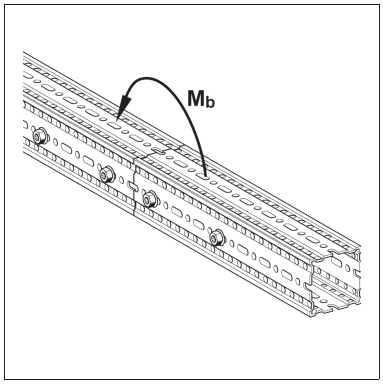








Square Coupling PK F 80 HCP

Application
Internal splice connecting element for Beam Section TP F 80, particularly suitable for vertical extension. Should the component be used for horizontal application, the bending moment needs to be considered.

Installation
To be fastened with 2 x 4 FLS F Self Forming Screws. For optimal bending moment, distance between screws to be as far from each other as possible.

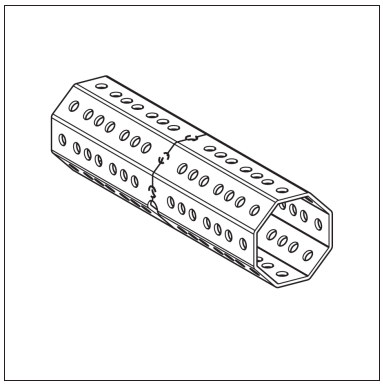
Notice:
Self Forming Screw FLS F to be fastened on two sides with a distance of minimum of 100mm and to be fastened symmetrically.
To optimise the bending moment the FLS F should be installed to maintain the pipe weight of the effective flow - i.e. screws are located top and bottom for horizontal cross bars not sideways.

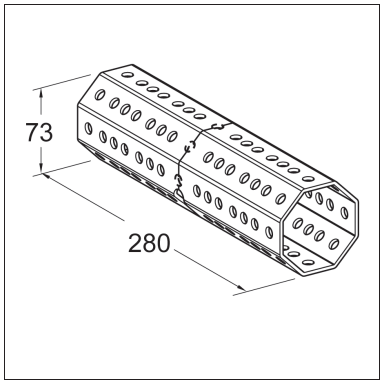
Technical Data

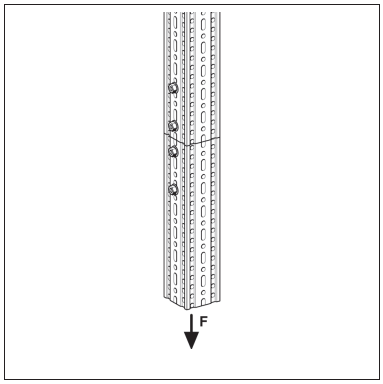
Type	Adm. longitudinal force (tension/pressure) F [kN]	Adm. bending moment Mb [Nm]
PK F 80 4kt - 360	10.0	500

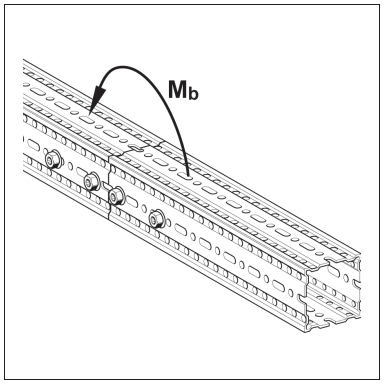
Material: Steel, HCP

Type	W [kg]	Quantity [pack]	Part number
PK F 80 4kt - 360	2.1	1	**111445**









Octagonal Coupling PK F 80 HCP

Application
Internal splice connecting element for TP F 80 Beam Section, particularly suitable for vertical extension. Should the component be used for horizontal application, the bending moment needs to be considered.
This particular connection element allows rotation of the Framo Beam Section TP F 80 by 45°.

Installation
To be fastened with 2 x 4 FLS F Self Forming Screws. For optimal bending moment, distance between screws to be as far from each other as possible.

Notice:
Self Forming Screw FLS F to be fastened on two sides with a distance of minimum of 50 mm and to be fastened symmetrically.
To optimise the bending moment the FLS F should be installed to maintain the pipe weight of the effective flow - i.e. screws are located top and bottom for horizontal cross bars not sideways.

Technical Data

Type	Adm. longitudinal force (tension/pressure) F [kN]	Adm. bending moment Mb [Nm]
PK F 80 8kt - 280	10,0	250

Material: Steel, HCP

Type	W [kg]	Quantity [pack]	Part number
PK F 80 8kt - 280	1.4	1	**111446**

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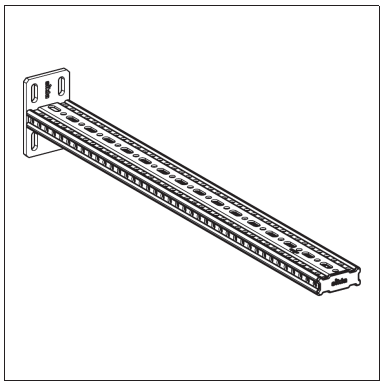
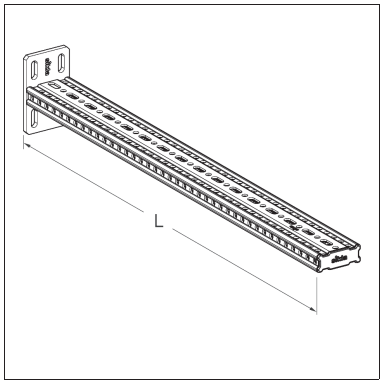
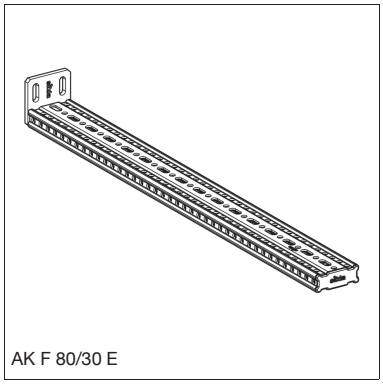
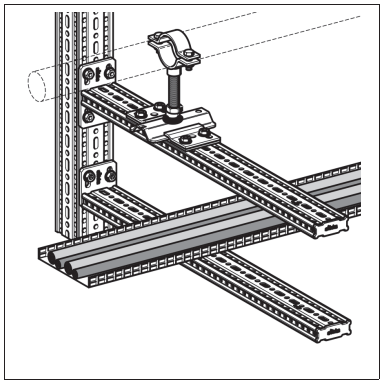






AK F 80/30 E



Cantilever Bracket AK F 80/30

Group: A420

Application

Galvanised hollow-box-section with welded end-plate to serve as cantilever arm. May be used as a crossbar when combined with End Support STA and 4 x Self Forming Screw FLS.

Installation

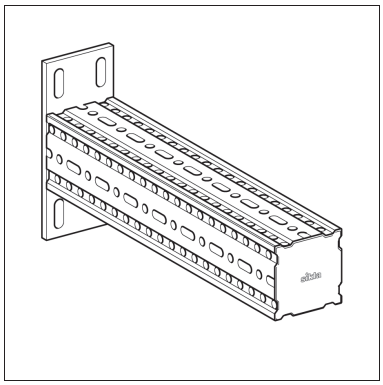
With 4 x Self Forming Screw FLS when fixed to another Framo hollow-box-section. Alternatively with two suitable wall anchors through holes “A” when fixed directly to building structure.

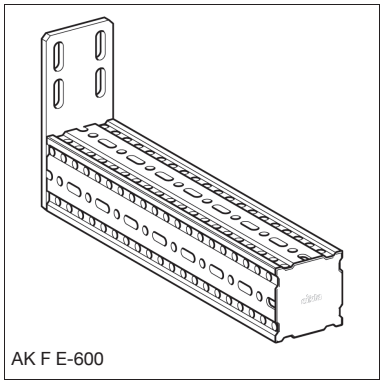
Technical Data

Type	L [mm]	Dimensions of base plate [mm]	Slots in base plate for
AK F 80/30-400	400	130 x 80 x 8	M10
AK F 80/30-800	800	130 x 80 x 8	M10
AK F 80/30-E-400	400	80 x 80 x 8	M10
AK F 80/30-E-800	800	80 x 80 x 8	M10

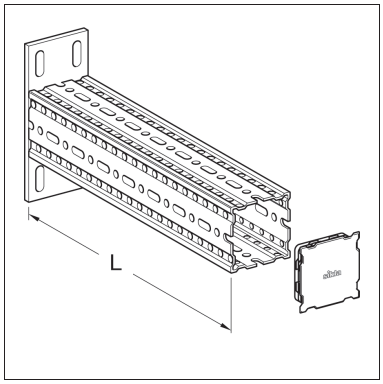
Configuration: Plate welded with Beam Section F 80/30
Material:
Plate: Steel, HCP
Beam section: Steel, HCP

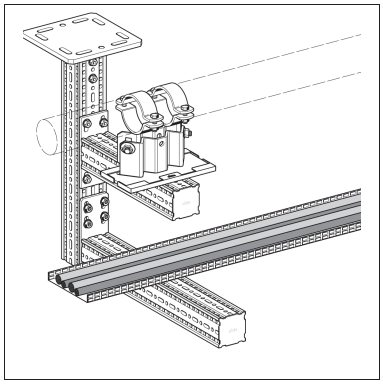
Type	W [kg]	Quantity [pack]	Part number
AK F 80/30-400	2.4	1	**113064**
AK F 80/30-800	4.2	1	**113065**
AK F 80/30-E-400	2.2	1	**113625**
AK F 80/30-E-800	4.0	1	**113626**





AK F E-600





Cantilever Bracket AK F 80

Group: A420

Application

Galvanised hollow-box-section with welded end-plate to serve as cantilever arm. May be used as a crossbar when combined with End Support STA and 4 x Self Forming Screw FLS.

Scope of delivery

With pre-assembled End Cap ADK F 80

Installation

With 4 x Self Forming Screw FLS when fixed to another Framo hollow-box-section. Alternatively with two suitable wall anchors through holes “A” when fixed directly to building structure.

Technical Data

Type	L [mm]	Dimensions of base plate [mm]	Slots in base plate for
AK F 80-400	400	190 x 80 x 8	M10
AK F 80-800	800	190 x 80 x 8	M10
AK F 80-E-600	600	165 x 80 x 8	M10

Configuration: Plate welded to Beam Section TP F 80
Material:
Plate: Steel, HCP
Beam Section: Steel, HCP

Approvals

MPA tested

Type	W [kg]	Quantity [pack]	Part number
AK F 80-400	3.4	1	**192764**
AK F 80-800	5.8	1	**192771**
AK F 80-E-600	4.5	1	**110370**

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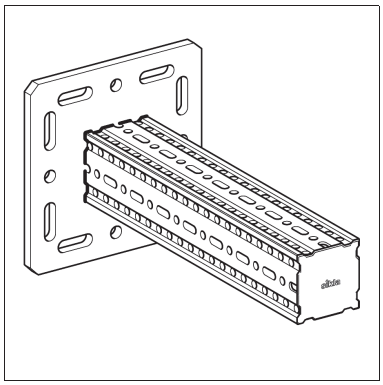
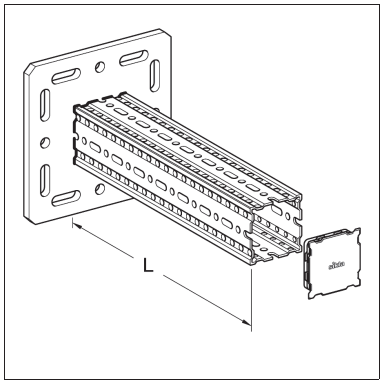
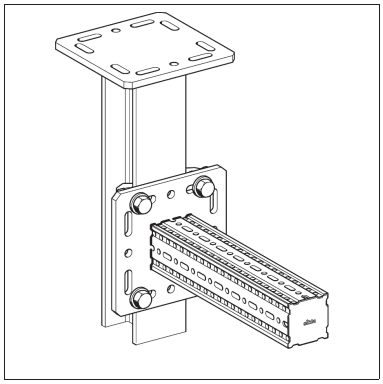






Beam Bracket TKO F 80

Group: A423

Application

Galvanised hollow-box-section with welded end-plate to serve as cantilever arm. May be used as a crossbar when combined with End Support STA/End Support WBD and 4 x Self Forming Screw FLS .

Scope of delivery

With pre-assembled End Cap ADK F 80.

Installation

Depending on the situation, different options are recommended:

a) Directly to building structure: 4 x suitable wall anchors
b) To traditional steel beams between 80 – 120 mm flange dimensions: 1x Assembly Set P2
c) To traditional steel beams > 120 flange dimension: with on-demand Adaptor Plate (tbc)
d) To Sikla Simotec Steel Beams 100/120: with Bracket Plates FV 100/120 when positive mechanical connection required

Technical Data

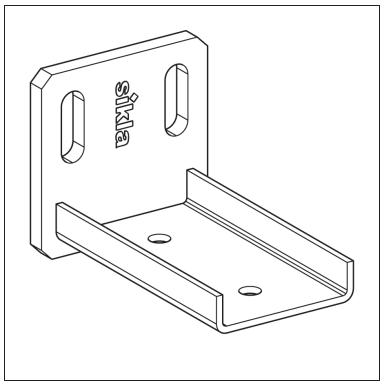
Type	L [mm]	Dimensions of base plate [mm]	Slots in base plate for
TKO F80-400	400	220 x 220 x 12	M12
TKO F80-800	800	220 x 220 x 12	M12

Configuration	Base plate welded to Beam Section TP F 80
Material:	
Base plate:	Steel, HCP
Beam Section:	Steel, HCP

Approvals

MPA tested

Type	W [kg]	Quantity [pack]	Part number
TKO F 80-400	6.6	1	**192788**
TKO F 80-800	9.2	1	**192795**



End Support STA F 80/30 E

Group: A422

Application

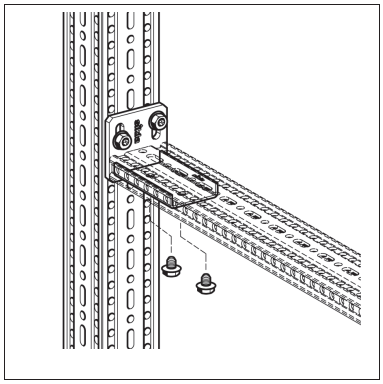
Plug-in component designed to create an endplate at the open end of a Beam Section TP F80/30 a Cantilever bracket AK F80/30.

Installation

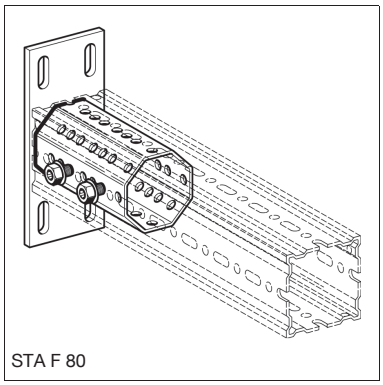
- With 2x2 Self Forming Screws FLS when used to connect 2 Beam Sections.
- With 2 Self Forming Screws FLS and 2 suitable wall anchors when used to connect to the building structure

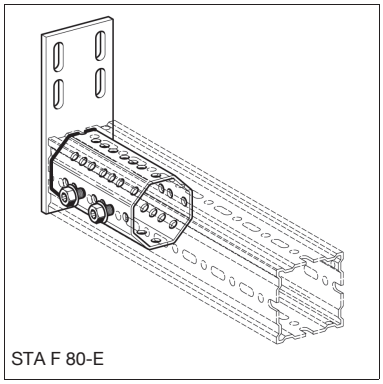
Technical Data

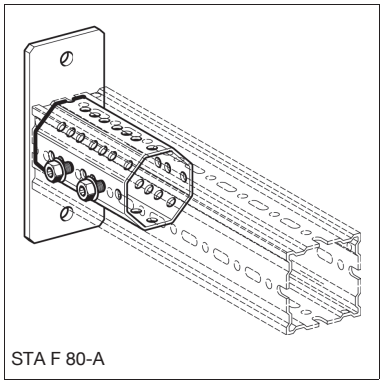
Material: Steel, HCP

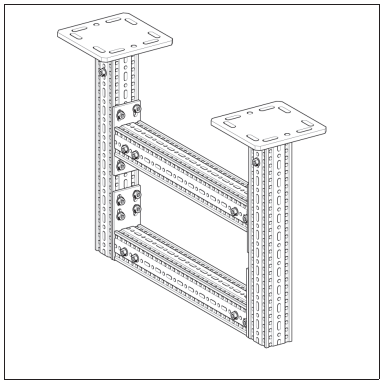


Type	W [kg]	Quantity [pack]	Part number
STA F 80/30-E	0.6	1	**113066**


STA F 80


STA F 80-E


STA F 80-A



End Support STA F 80

Group: A422

Application

Plug-in component designed to create an endplate at the open end of a Beam Section TP F80 or a Cantilever bracket AK F80.

Installation

Depending on the version, following mountings solutions are possible:

a) With 2x4 Self Forming Screws FLS when used to connect 2 Beam Sections.

b) With 4 Self Forming Screws FLS applied to the octagonal insert and 2 suitable wall anchors/fixings when connected to the building structure.

Technical Data

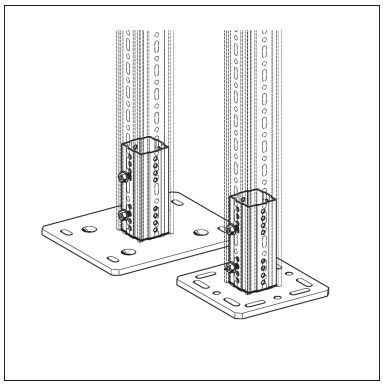
Type	Dimensions of Base plate [mm]	Slots in base plate for
STA F 80	190 x 80 x 8	M10
STA F 80-E	165 x 80 x 8	M10
STA F 90-A	190 x 80 x 8	M12

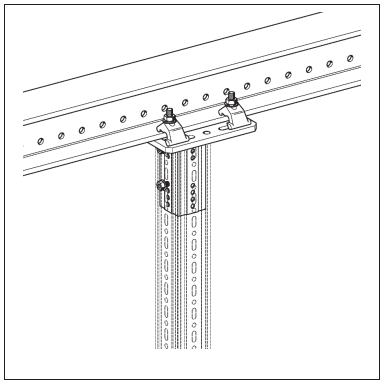
Configuration: Base plate welded to octagonal element F 80
Material:
Plate: Steel, HCP
Octagonal element: Steel, HCP

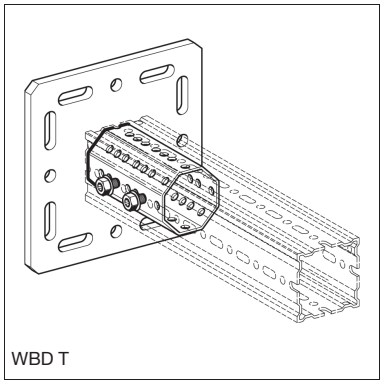
Approvals

MPA tested

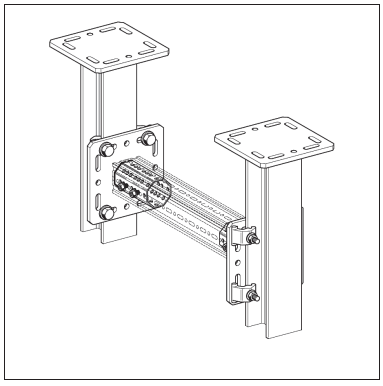
Type	W [kg]	Quantity [pack]	Part number
STA F 80	1.6	1	**192856**
STA F 80-E	1.5	1	**192863**
STA F 80-A	1.7	1	**192870**







WBD T



End Support WBD F 80

Group: A421

Application

Plug-in component designed to create a square endplate at the open end of a Beam Section TP F80 or a Beam Bracket/Cantilever bracket AK F80. Variation "T" with octagonal insert allows full utilisation of beam section within the space required by the End Support WBD itself.

Installation

Depending on the situation, different options are recommended:

a) Directly to building structure: 4 x suitable wall anchors and 4 Self Forming Screws FLS applied to the square/octagonal insert

b) To traditional steel beams between 80 – 300 mm flange dimensions: 1x Assembly Set P2/P3 and 4 Self Forming Screws FLS applied to the square/octagonal insert

c) To traditional steel beams > 120 flange dimension: with on-demand Adaptor Plate (tbc)

c) To Sikla Simotec Steel Beams 100/120: with Bracket Plates FV 100/120 when positive mechanical connection required

Technical Data

Type	For flange width [mm]	Dimensions of base plate [mm]	Slots in base plate for
WBD F 80-80/120	80 - 120	220 x 220 x 12	M12
WBD F 80-121/160	121 - 160	320 x 260 x 12	M12
WBD F 80-161/200	161 - 200	320 x 310 x 12	M16
WBD F 80-201/300	201 - 300	420 x 220 x 12	M16
WBD F 80-T	80 - 120	220 x 220 x 12	M12

Configuration:	Base plate welded to square F 80 resp. octagonal element F 80
Material:	
Plate:	Steel, HCP
Square F 80:	Steel, HCP
Octagonal element F 80:	Steel, HCP

Approvals

MPA tested

Type	W [kg]	Quantity [pack]	Part number
WBD F 80-80/120	5.2	1	**192801**
WBD F 80-121/160	8.7	1	**192818**
WBD F 80-161/200	10.2	1	**192825**
WBD F 80-201/300	9.4	1	**192832**
WBD F 80-T	4.8	1	**192849**

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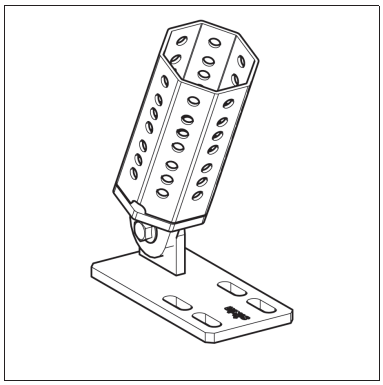
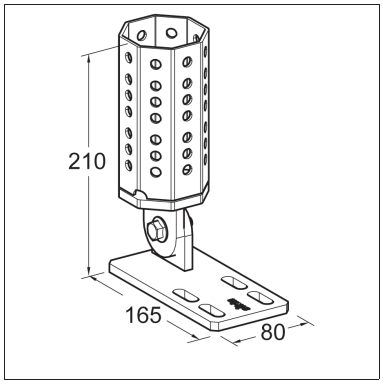
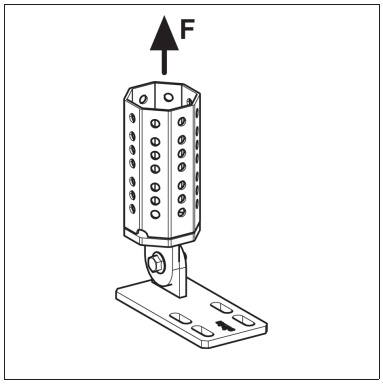
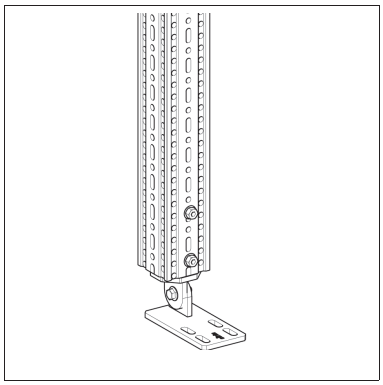








Joint JOI F 80 HCP

Application
Flexible connecting element to be used for Framo F 80 Beam Sections at an angle between 0° and 160°, preferably for conjunctions of F 80 Beam Sections among each other or as junction element to primary or secondary steel constructions. Applicable as bracing element, especially for the reinforcement of cross members.

Scope of delivery
Thread connection between Mounting Plate and Adapter completely pre-assembled.

Installation
Thread connection by means of 2 x 4 Self Forming Screws FLS 80.

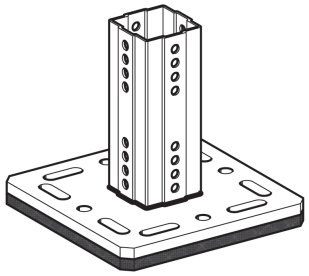
Notice
In case of vibration, the thread connection between Mounting Plate and Adapter additionally has to be secured against unscrewing.

Technical Data

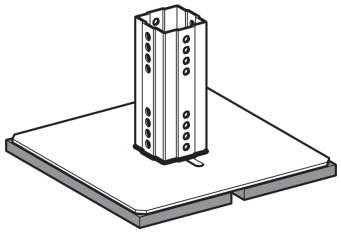
Type	Permissible load F [kN]
Joi F 80	2.2

Material:
Mounting Plate, Adapter, welded-on links: Steel, HCP
Screw: Steel class 8.8
Nut: Steel class 8

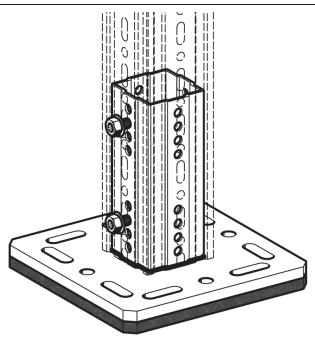
Type	W [kg]	Quantity [pack]	Part number
JOI F 80	2.1	1	**111448**

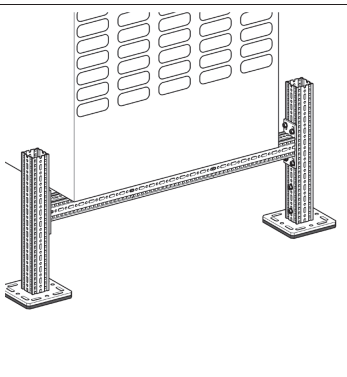


SHB F 80-220



SHB F 80-300 - 600





Insulated Foot Plate SHB F 80

Group: A421

Application

Integrated footplate and permeable rubber compound mat to provide a solution for the support of building services, without the need for penetrative supports. In combination with the Sikla Framo TP F 80 section, any frame structure may be built up from the footplates.
Especially suitable for maintaining the thermal and waterproofing integrity of a roof or basement floor as no penetrative fixings are required to secure the footplates for service supports.

Installation

Assembly to Beam Section TP F 80 by means of 4 Self Forming Screws FLS F.

Technical Data

Statical E-module:	According to DIN 53513	0.8 - 0.9 N/mm^2
Dynamical E-module:	According to DIN 53513	0,6 - 2.2 N/mm^2
Compression set:	DIN 53572	approx. 4.0 % measured 30 min. after release at 50 % compression / 23°C after 72 Std.
Tensile strength:	DIN 53571	0.40 N/mm^2 min.
Ultimate elongation:	DIN 53571	70 % minimum value
Tear strength:	DIN 53515	3.4 N/mm^2 minimum value
Fire resistance:	DIN 4102	B2

Material: Steel, HCP, rubber-compound material

Type	Plate dimensions [mm]	W [kg]	Quantity [pack]	Part number
SHB F 80-220	220 x 220	5.7	5	**198926**
SHB F 80-300	300 x 300	5.4	5	**113121**
SHB F 80-450	450 x 450	12.4	1	**113122**
SHB F 80-600	600 x 600	27.2	1	**113123**

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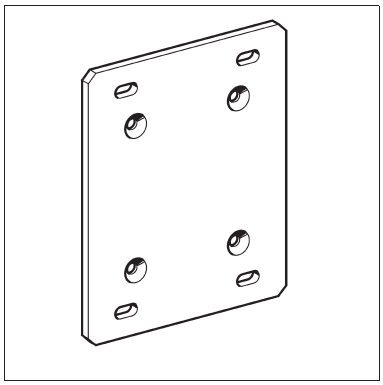
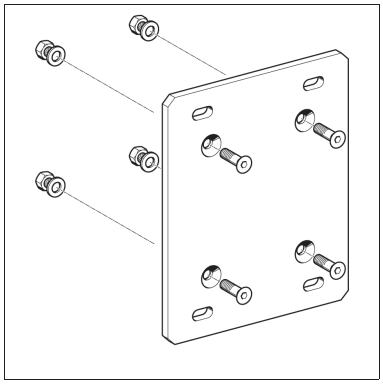
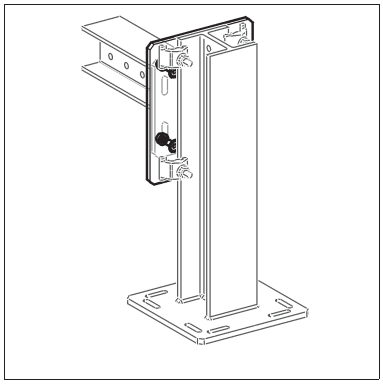
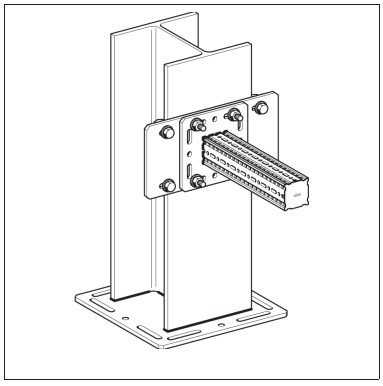








Joining Plate AP

Group: A630

Application

Interface element to enable the connection of standard endplates of Beam Brackets TKO F80 or F100, TKO 100 or 120 to primary steel with flange width >120 mm. Alternatively this product may be used to achieve a greater distance between wall anchor positions when required by the anchor calculation's result.

Scope of delivery

Joining Plate AP
4 Countersink Screws M12 x 40
4 Hexagon Nuts M12
4 Washers

Installation

Connect the Joining Plate AP to the Beam Bracket TKO's end plate by using the accessories above. Then continue with either heavy-duty anchors or Assembly Set P/Beam Clips as required by the building structure.

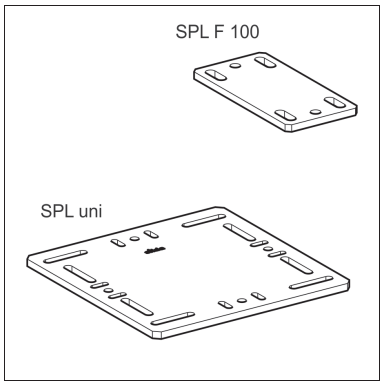
Technical Data

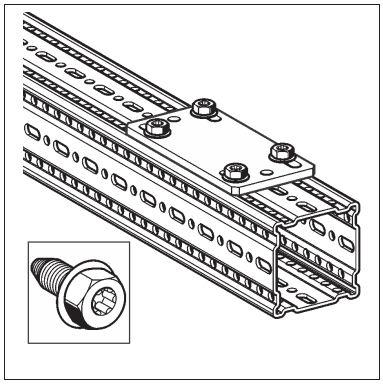
Type	Dimension of Base Plate L x B [mm]	Perforation for	Connection to flange width [mm]
AP 121/160	320 x 260 x 12	M12	121 - 160
AP 161/200	320 x 310 x 12	M16	161 - 200
AP 201/300	420 x 220 x 12	M16	201 - 300
AP 301/310	440 x 220 x 12	M16	301 - 310

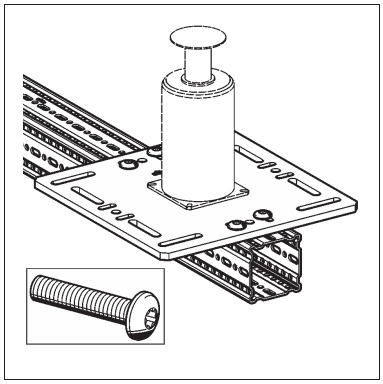
Material:

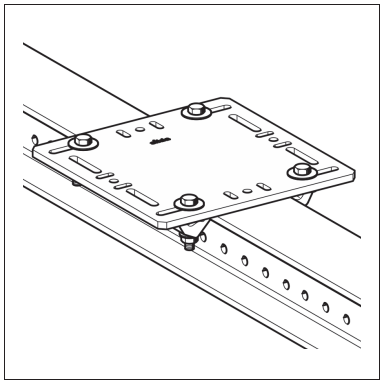
Joining Plate:	Steel, hot-dipped galvanised
Bolts:	Steel DIN 7991, class 8.8, Dacromet/delta seal
Nuts:	Steel, class 8, hot-dipped galvanised
Washers:	Steel, hot-dipped galvanised

Type	W [kg]	Quantity [pack]	Part number
AP 121/160	7.9	1	**183953**
AP 161/200	9.3	1	**183962**
AP 201/300	8.5	1	**183980**
AP 301/310	9.8	1	**113129**









Welding Plate SPL

Group: A430

Application

Interface element to enable a welded connection of load chains, spring hangers etc. to Beam Section TP F. Our type "SPL universal" enables a welded connection to primary steel with flange width up to 300 mm. At the same time it's possible to install type "SPL universal" to Beam Section TP F if a larger installation surface is needed.
The welding plate can be welded directly without previous treatment due to a corrosion-resistant weld-thru coating which is compatible with both the HDG surface of the Framo section and the health and safety requirements of the welding process.

Installation

Depending on the type, different installation methods are recommended:

a) Installation of SPL F 80 or 100 with 4 Self Forming Screws FLS to Beam Section TP F.
b) Installation of SPL universal with 4 Flange Screws SCR FLA TT M10 x 25 (part no. 110503) to Beam Section TP F.
c) Installation of SPL universal by means of 1 Assembly Set P2 S (part no. 168494) to primary steel with flange width between 100 and 300 mm.

Technical Data

Type	Installation surface [mm]	Mounting Plate size [mm]
SPL F 80	70 x 20	110 x 80 x 8
SPL F 100	80 x 80	180 x 90 x 8
SPL universal	220 x 220	370 x 370 x 12

Material: Steel, HCP

Type	W [kg]	Quantity [pack]	Part number
SPL F 80	0.5	1	**113831**
SPL F 100	1.0	1	**113635**
SPL universal	11.9	1	**113636**

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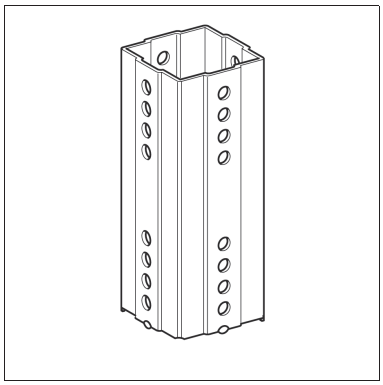
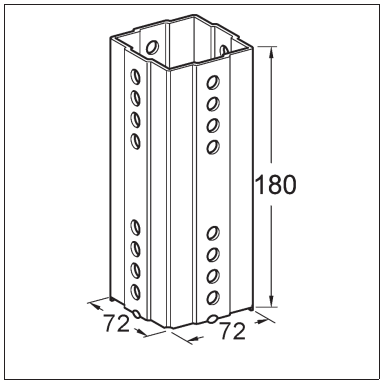
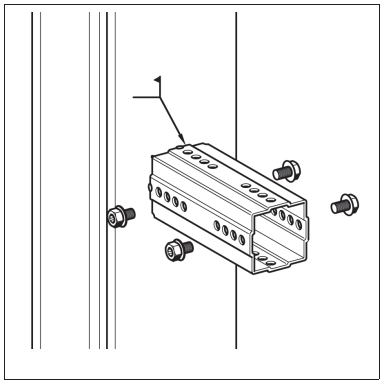






Welding Adapter ASA F 80 Square

Group: A428

Application

Welding plate with square insert to receive Framo section. May be implemented into the structural steel design in anticipation of Framo-frames or used in situ as a connection element when clamping is not an option but hot works are permitted.

Installation

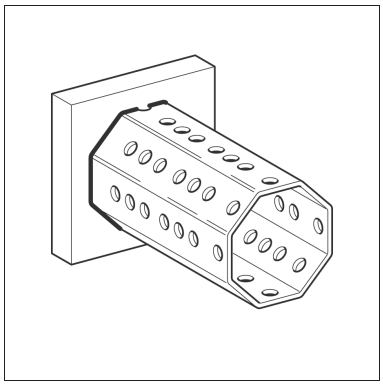
The welding plate of the ASA can be welded directly without previous treatment due to a corrosion-resistant weld-thru coating which is compatible with both the HDG surface of the Framo section and the health and safety requirements of the welding process. Once the ASA adapter has been connected, the coating may also receive paint without previous treatment. The Framo section must be connected to the Welding Adapter ASA with 4 x Self Forming Screw FLS.

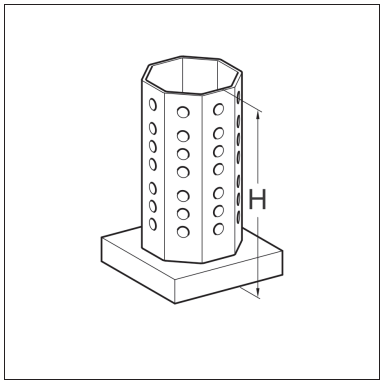
Technical Data

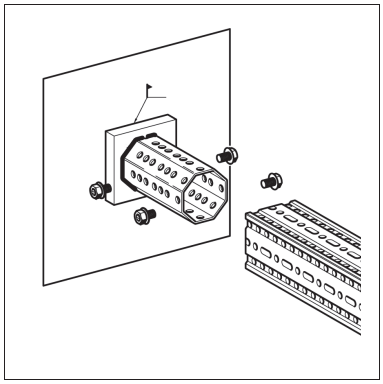
Adm. load:
Cantilever: Max. 1.0 kNm
Crossbar: See Framo Installation Guidelines

Material: Steel, HCP

Type	W [kg]	Quantity [pack]	Part number
ASA F 80	1.0	1	**110020**







Welding Adapter ASA F 80 Octagon

Group: A428

Application

Welding plate with octagonal insert to receive Framo section. May be implemented into the structural steel design in anticipation of Framo-frames or used in situ as a connection element when clamping is not an option but hot works are permitted. The octagonal insert allows for full utilisation of beam section within the space required by the Welding Adapter ASA itself.

Scope of delivery

Mounting Plate 100 with welded on octagonal joint

Installation

The welding plate of the ASA can be welded directly without previous treatment due to a corrosion-resistant weld-thru coating which is compatible with both the HDG surface of the Framo section and the health and safety requirements of the welding process. Once the ASA adapter has been connected, the coating may also receive paint without previous treatment. The Framo section must be connected to the Welding Adapter ASA with 4 x Self Forming Screw FLS.

Technical Data

Type	Adapter size H [mm]	Mounting Plate size [mm]
ASA F 80 GPL 8kt	140	100 x 100 x 20

Adm. load cantilever: Max. 0.6 kNm
Material: Steel, HCP

Type	W [kg]	Quantity [pack]	Part number
ASA F 80 GPL 8kt	2.2	1	**112212**

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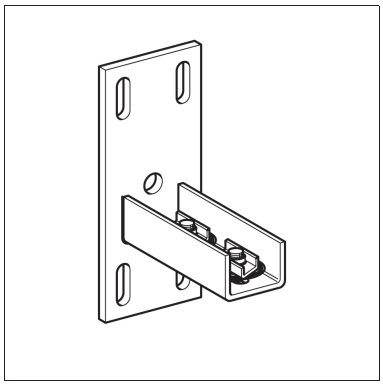
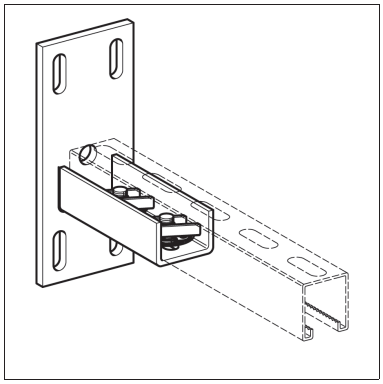
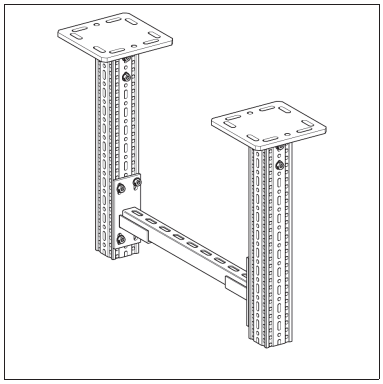






Channel Adapter SA F 80-41

Group: A427

Application

Interface element to enable a stiff and solid connection between the Framo profile and strut channel of the international 41/41 mm standard. The 41/41 Channel Adapter SA F80 is equipped with automatically locking spring nuts which means that no accessories from the strut channel's range are required in order to make the connection.

Installation

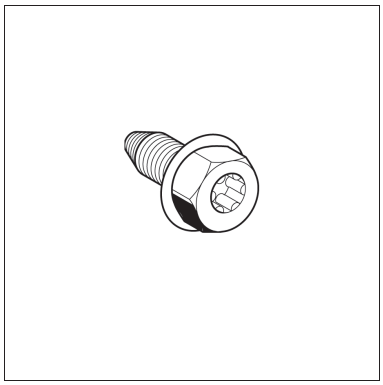
The Channel Adapter SA F 80-41 requires 4 x Self Forming Screw FLS in order to be connected to the Framo profile. The strut channel must be inserted with the slot first whilst pressing the two bolt's heads triggering an automatic 90°-locking operation of the two channel spring nuts. The strut channel is now securely held and can be adjusted. Finally the two screws must be tightened with the appropriate torque for the strut channel used.

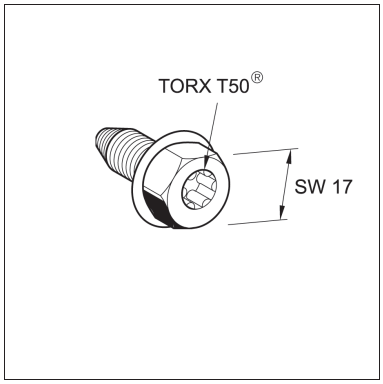
Technical Data

Type	Dimension of base plate [mm]	Slots in base plate
SA F 80-41	190 x 80 x 8	M10

Material: Steel, HCP

Type	W [kg]	Quantity [pack]	Part number
SA F 80-41	1.4	1	**192887**





Self Forming Screw FLS

Group: A430

Application

The Self Forming Screw FLS creates its own thread inside the wall of the Framo pilot hole. During the screw-driving operation, the base steel is re-shaped and hardened to form an air-tight seal between the threads of the screw and the surrounding steel, making it exceptionally resistant to vibrational loosening and increasing fastening strength.

Technical Data

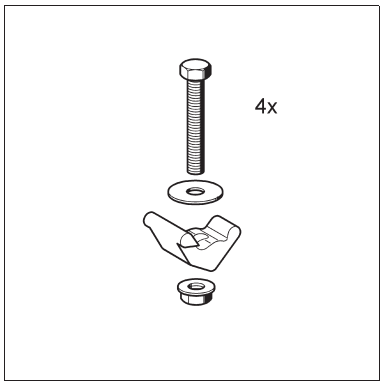
Application	Tightening torque [Nm]
System Framo	60
Connection to Channels MS 41	35

Material: Steel, HCP

Approvals

MPA tested

Type	W [kg]	Quantity [pack]	Part number
FLS F	0.03	100	**192512**



Assembly Set PS

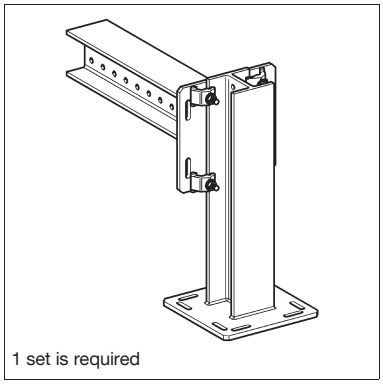
Group: A640

Application

Element for connecting Beam Bracket TKO, Angled Beam Bracket SKO or End Support WBD to a beam section.

Scope of delivery

Type	Beam Clip [Qty.]	Hexagon bolt 8.8 [Qty.]	Washer [Qty.]	Hexagon nut [Qty.]
Set P2 S	4 x P2	4 x M12 x 80	8 x 12/40	4 x M12
Set P3 S	4 x P3	4 x M16 x 100	8 x 16/125	4 x M16
Set P2/2 S	2 x P2	2 x M12 x 80	4 x 12/40	2 x M12



1 set is required

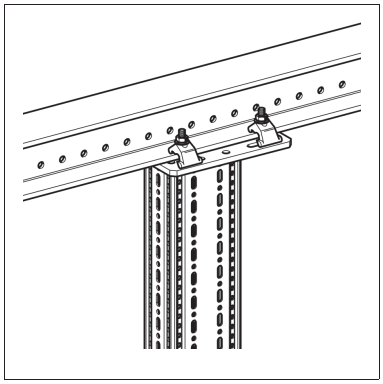
Installation

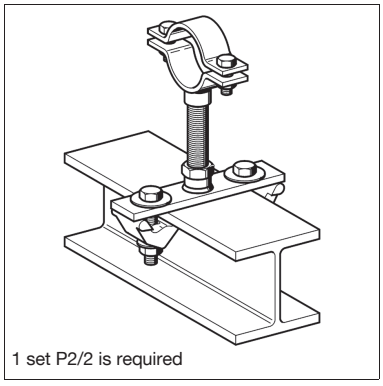
- The narrow ends of the Beam Clips must be fixed to the beam flange.
- Max. perm. torque of all M12 bolts: 85 Nm (Set P2 S)
- Max. perm. torque of all M16 bolts: 150 Nm (Set P3 S)
- Once fully tightened, the hexagon bolts must not be re-used!

Technical Data

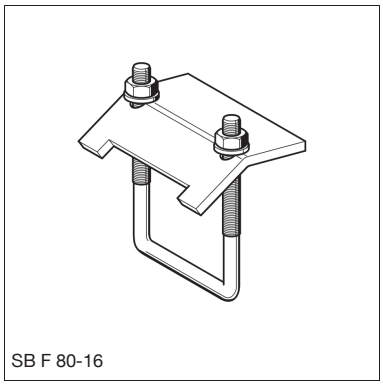
Material: Steel and cast iron, hcp

Type	W [kg]	Qty. [set]	Part number
Set P2 S	1.6	1	**168494**
Set P3 S	2.0	1	**179147**
Set P2/2 S	0.6	1	**183800**

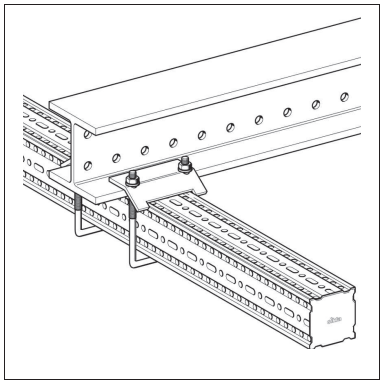


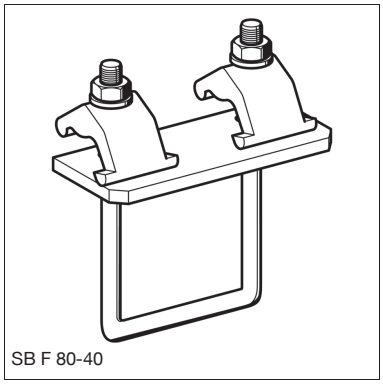


1 set P2/2 is required

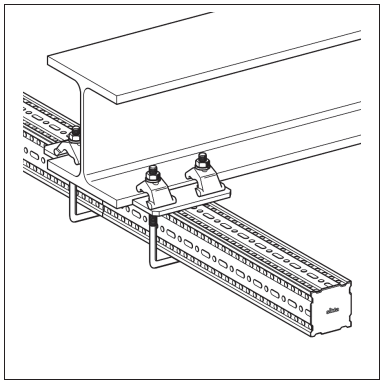


SB F 80-16





SB F 80-40



U-Holder SB F 80

Group: A439

Application

Pre-assembled component to clamp Beam Section F80 to the flange side of traditional steel sections.

Scope of delivery

Type SB F 80-16:
Holder with thread M10
Plate
2 Hexagon nuts M10
2 Washers

Type SB F 80-40:
Holder with thread M12
Plate
2 Beam Clips P2
2 Hexagon nuts M12
2 Washers

Installation

U-holder to be used in pairs.
Type 16 up to flange thickness 16 mm
Type 40 up to flange thickness 40 mm

Technical Data

Type	Thread	Max. adm. tensile load	Tightening torque
SB F 80-16	M10	5.0 kN per U-bolt	30 Nm
SB F 80-40	M12	5.0 kN per U-bolt	40 Nm

Material:

U-Holder:	Steel, HCP
Plate:	Steel, HCP
Beam Clip:	Steel resp. Cast Iron, HCP
Nut/Washer:	Steel, HCP

Type	W [kg]	Quantity [pack]	Part number
SB F 80-16	0.6	20	**192683**
SB F 80-40	1.5	10	**194010**

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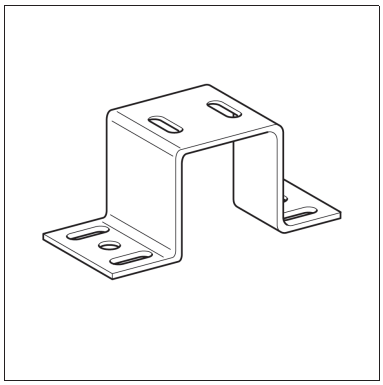
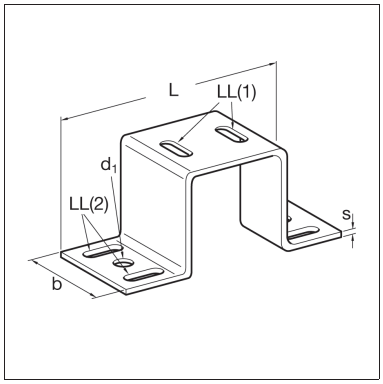
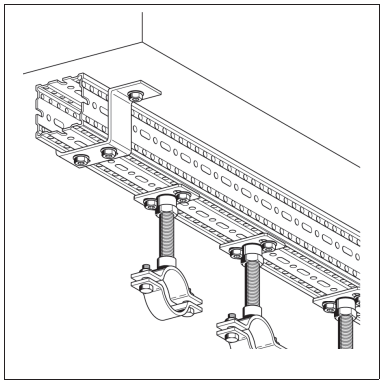
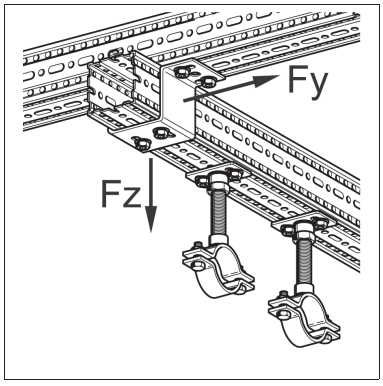








Beam Section Holder TPH F 80

Group: A425

Application

Interface element to connect 90° intersecting Beam Sections F80. Alternatively the Beam Section Holder TPH may be used to connect only one beam section to an even surface with suitable wall anchors or with cast-in channel accessories.

Installation

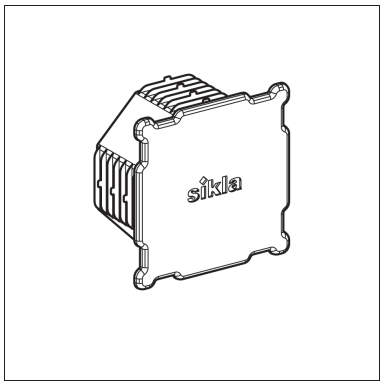
Connecting one Beam Section F80 90° to another one by using 6 x Self Forming Screw FLS applied through all elongated holes. Connecting to any other surface or member by using 2 x Self Forming Screws FLS through the two elongated holes on the top of the Beam Section Holder TPH F80 plus 2 appropriate fixing elements up to M12 through the two holes “d1”.

Technical Data

Type	L x w x th [mm]	Ø d_1 [mm]	Elongated hole LL1 d x a [mm]	Elongated hole LL2 d x a [mm]	Perm. load under 90° to the beam axis Fy = Fz [kN]
TPH F 80	181 x 50 x 4	13	11 x 20	-	7
TPH F 80 C	199 x 80 x 4	14	11 x 20	11 x 20	10

Material: Steel, HCP or hot dipped galvanised

Type	W [kg]	Quantity [pack]	Part number
TPH F 80	0.5	10	**195765**
TPH F 80 C	0.8	10	**111732**



End Cap ADK F 80

Group: A430

Application

Plastic end cap to close cut ends of Beam Section F80 to meet both visual and health & safety requirements. Standard Cantilever- and Beam Brackets (AK F80 and TKO F80) already include this end cap.

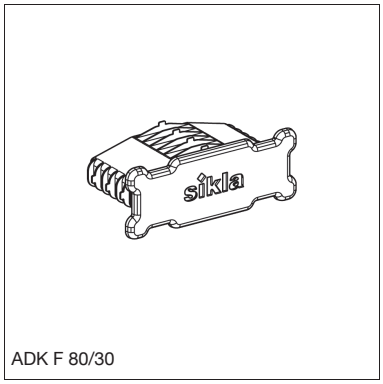
Installation

Mallet required.

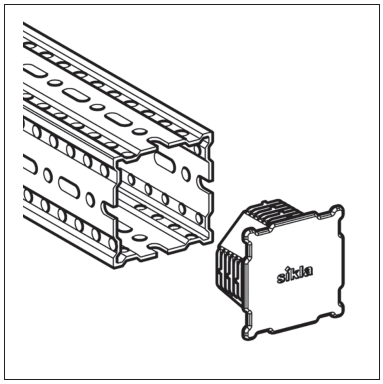
Technical Data

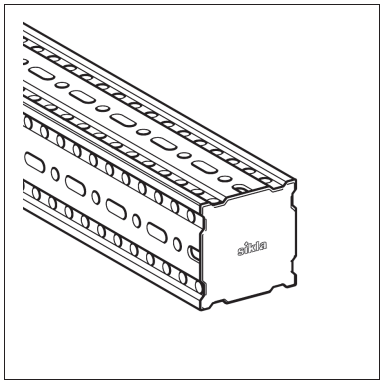
Material: PE, yellow

Type	W [kg]	Quantity [pack]	Part number
ADK F 80	0.03	25	**192674**
ADK F 80/30	0.02	25	**113067**



ADK F 80/30





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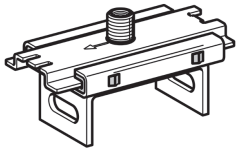
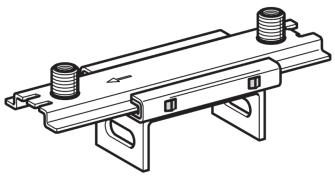
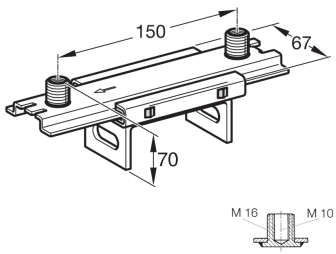


2G



2G2



Slide Set GS F 80 2G

Group: A436

Application

Pipe guide for twin-clamp connection designed to clutch the Beam Section F80 fixed by 2 x Self Forming Screws FLS.

Installation

Pipe clamp connection points “2G” receive M10 studs or M16 by adapter connection.

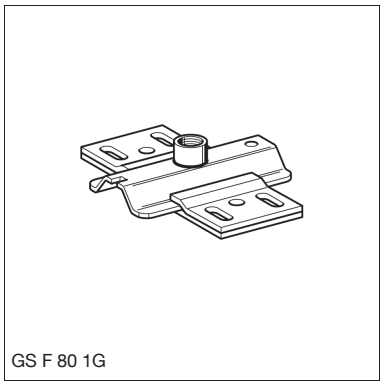
Technical Data

Perm. load elevated position:	1,2 kN
Perm. load suspended position:	0,6 kN
Permanent temperature range:	130° C

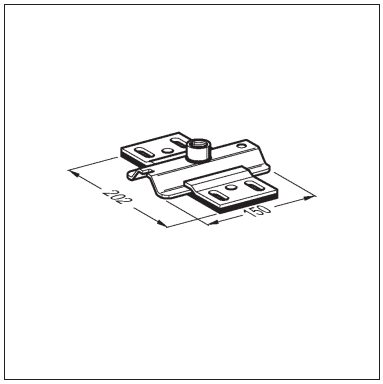
Material:

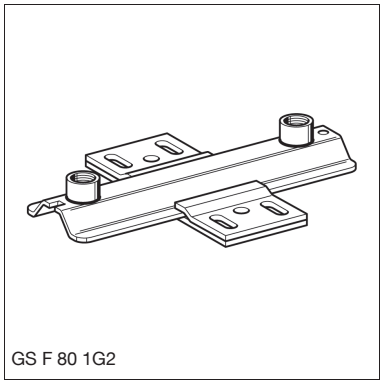
Slide element:	Steel, HCP
Slide bar:	Polyamide (glass-fibre reinforced)
Retaining plate:	Steel, HCP

Type	W [kg]	Quantity [pack]	Part number
GS F 80 2G	0.6	10	**196700**
GS F 80 2G2	0.7	10	**196717**

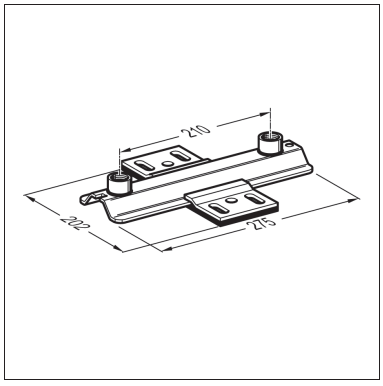


GS F 80 1G





GS F 80 1G2



Slide Set GS F 80 1G Z

Group: A436

Application

Heavy duty Slide Set for installing to Framo Beam Section TP F 80 or Sikla Channels.
$^1/_2$" thread connection allows for a direct connection of the pipe clamp Stabil I - $^1/_2$" by means of the $^1/_2$" threaded tube and without the need for further adapter parts.

Scope of delivery

Set of Slide Set, Slide Plate and 2 Guiding Brackets.

Installation

Fixing to Beam Section F 80 using 4 Thread Forming Screws F 80.
Fixing to channel either by using 2 T-head Bolts HZ 41 M12 x 25 or 2 Channel nuts HZ 41-M12 with 2 Hexagon Bolts M12/30.

Technical Data

Permissible load:	6 kN
Temperature range:	-20° up to +130° C (at the slide plate)
Material:	
Metal components:	Steel, hot-dipped galvanised
Slide plate:	Polyamide PA 6.6
Guiding bracket:	Steel, hot-dipped galvanised

Type	W [kg]	Qty. [set]	Part number
GS F 80 1G Z	1.0	10	**192924**
GS F 80 1G2 Z	1.4	10	**192917**

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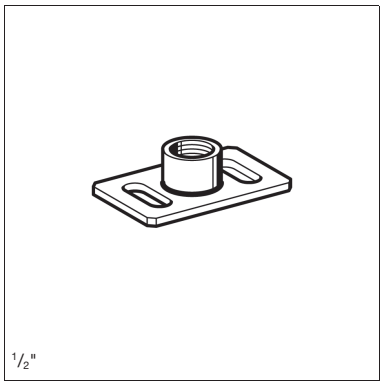
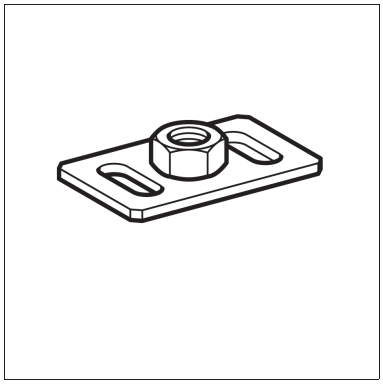
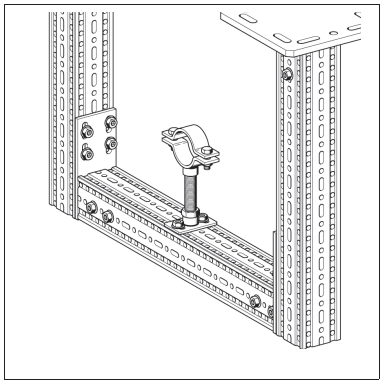






Mounting Plate GPL F 80

Group: A438

Application

Interface component to connect threaded bar and threaded tube to Beam Section F80.

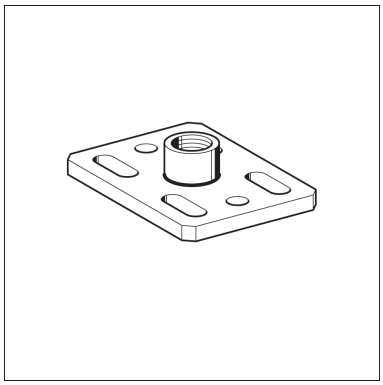
Installation

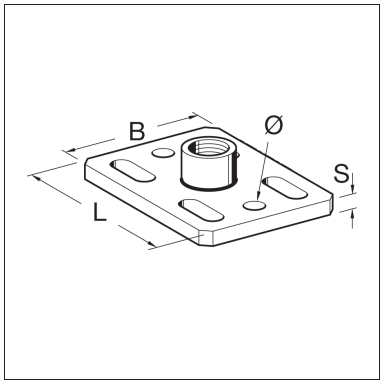
Requires 2 x Self Forming Screw FLS per Mounting Plate GPL.

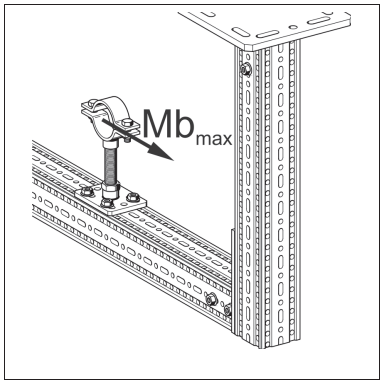
Technical Data

Dimensions of base plate:	80 x 50 x 4 mm
Material:	Steel, hot-dipped galvanised

Type	W [kg]	Quantity [pack]	Part number
GPL F 80-1/2"	0.1	50	**192900**
GPL F 80-M10	0.1	50	**113004**
GPL F 80-M12	0.1	50	**112911**
GPL F 80-M16	0.2	50	**195833**







Mounting Plate GPL F 80 Stabil HCP

Group: A430

Application

Adapter plate for installing pipe clamps to Beam Section TP F80 or Channel System by means of threaded tube $^1/_2$" or thread Connection.

Installation

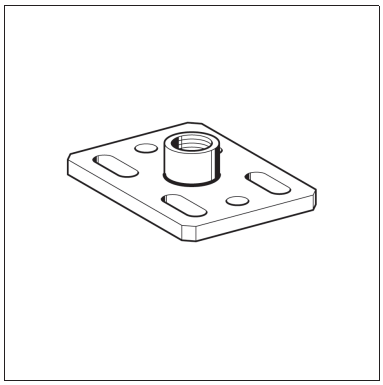
Direct connection of plate to Beam Section TP F80 by means of 4 Self Forming Screws FLS F 80. Connection to the Channel System by means of Speed Nut CC41 and Hexagon Bolts. The two drilled holes in the Adapter Plate mean that the Plate may also be installed to concrete.

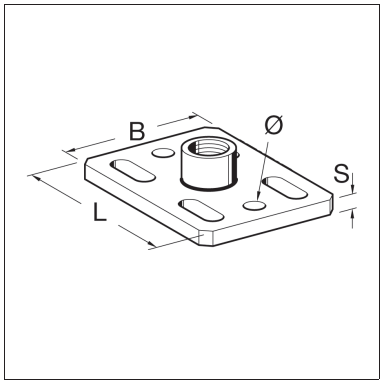
Technical Data

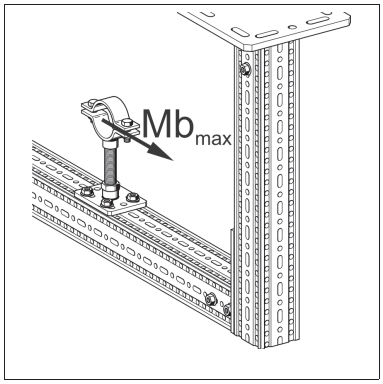
Permissible bending moment of the Threaded Tube $^1/_2$" $Mb_{max,}$ should not be exceeded. Any lateral loads on the pipe clamp also need to be considered.

Material: Steel, HCP

Type	Dimension L x W x Th [mm]	Elongated hole d x a [mm]	Ø [mm]	W [kg]	Quantity [pack]	Part number
GPL F 80 ST-$^1/_2$"	110 x 80 x 8	11 x 31	11	0.50	25	**112719**







Mounting Plate GPL F 80 Stabil

Group: 1227

Application

Adapter plate for installing pipe clamps to Beam Section TP F80 or Channel System by means of threaded tube $^1/_2$".

Installation

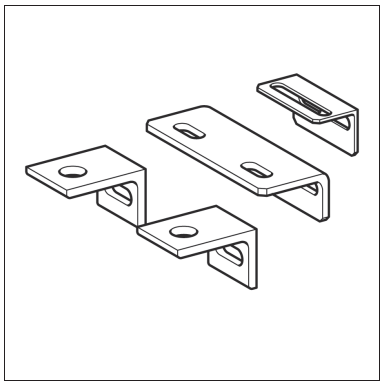
Direct connection of plate to Beam Section TP F80 by means of 4 Self Forming Screws FLS F 80. Connection to the Channel System by means of Speed Nut CC41 and Hexagon Bolts. The two drilled holes in the Adapter Plate mean that the Plate may also be installed to concrete.

Technical Data

Permissible bending moment of the Threaded Tube $^1/_2$" $MB_{max,}$ should not be exceeded. Any lateral loads on the pipe clamp also need to be considered.

Material: Steel, electro-galvanised

Type	Dimension L x W x Th [mm]	Elongated hole d x a [mm]	Ø [mm]	W [kg]	Quantity [pack]	Part number
GPL F 80 ST-$^1/_2$"	110 x 80 x 8	11 x 31	11	0.50	25	**451280**
GPL F 80 ST-$^3/_4$"	110 x 80 x 8	11 x 31	11	0.50	25	**451281**
GPL F 80 ST-1"	110 x 80 x 8	11 x 31	11	0.50	25	**451282**



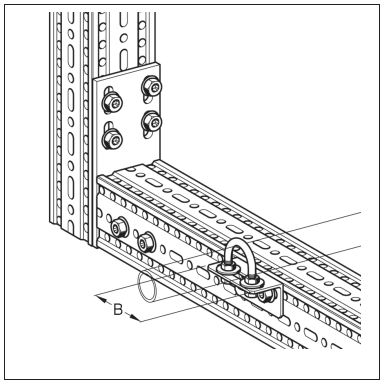
U Bolt Fastening UB F

Group: A430

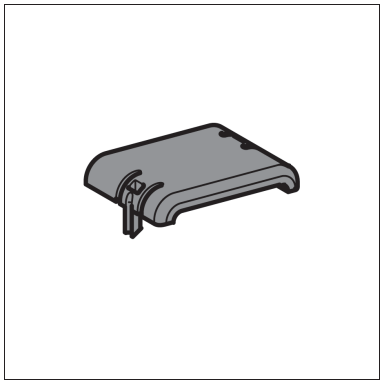
Application
U Bolt Fastening to connect standard U-Bolts required for pipework to the supporting Beam Sections, Cantilever Brackets and Beam Brackets F80 or F100.

Scope of delivery
For U-bolts ≥ 4" always 2 U-bolt fastenings F are needed.

Technical Data
Material: Steel, HCP or hot-dipped galvanised



Type	B [mm]	W [kg]	Quantity [pack]	Part number
UB F $^1/_2$" - 1 $^1/_2$"	85	0.13	25	**192931**
UB F 2" - 3"	165	0.64	10	**196212**
UB F 4" - 6"	45	0.18	20	**113124**
UB F 8" - 12"	45	0.15	20	**113125**
UB F 378 - 530	45	0.15	20	**113126**



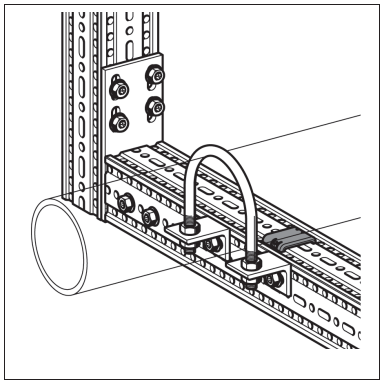
Pad U-UB F 80

Group: A430

Application
Insulation and surface protection pad to be used on demand when a pipes' expansion and contraction occurs directly on the F80 section.

Technical Data
Material: Polyamide PA 6.0
Range of temperature: -20° up to +130° C

Type	W [kg]	Quantity [pack]	Part number
U-UB F 80	0.01	50	**198797**



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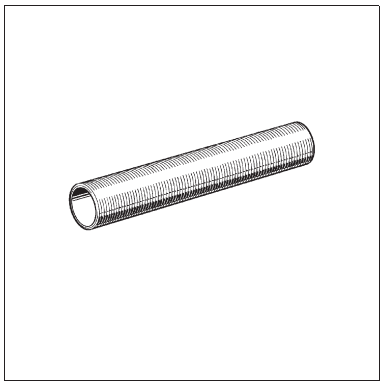


Threaded Tube GR

Group: 1310

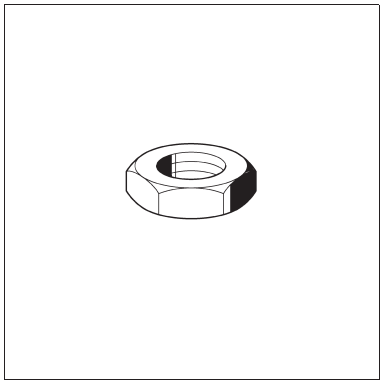
Application
To be used as
- a direct connection element between Mounting Plate and Pipe Clamp or
- a support rod in combination with Socket Angle or Universal Joints as angular support.

Scope of delivery
Standard length 2m. Shorter pre-cut parts available on request.

Technical Data
Screw thread as per DIN EN ISO 228

Material: Steel, electro-galvanised

Type	Length	Weight [kg/m]	Qty. [m]	Part number
G 1/2"	2 m	1.02	2	**151102**



Locking Nut NT G

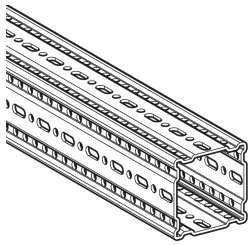
Group: 1310

Application
Suitable for the Sikla Threaded Tubes and thread connectors (such as mounted in Slide Sets).

Technical Data
Material: Steel, electro-galvanised

Type	W [kg]	Quantity [pack]	Part number
G 1/2"	0.04	25	**157092**

Beam Section TP F 100



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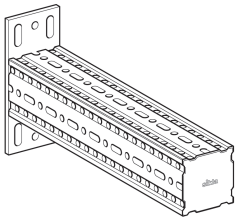
Cantilever Bracket AK F 100



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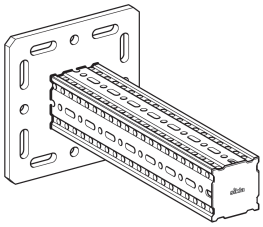
Beam Bracket TKO F 100



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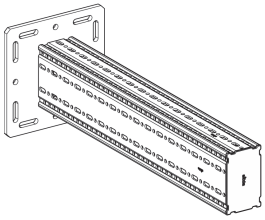
Beam Bracket TKO F 100/160



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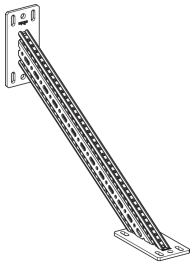
Bracing Arm SKO F 100



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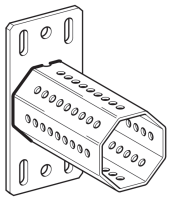
End Support STA F 100



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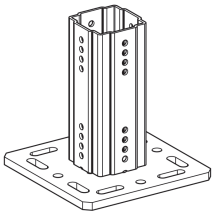
End Support WBD F 100



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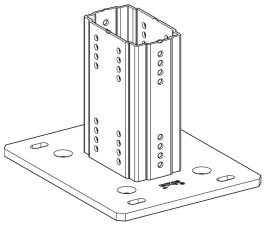
End Support WBD F 100/160



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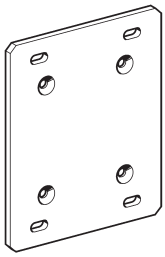
Joining Plate AP



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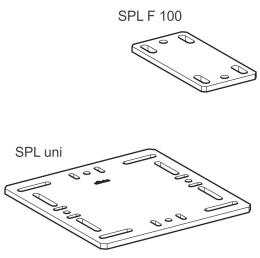
Welding Plate SPL



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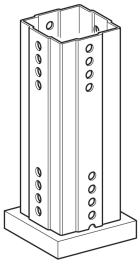
Welding Apater ASA F 100 Square



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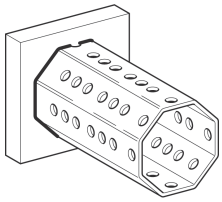
Welding Adapter ASA F 100 Octagon



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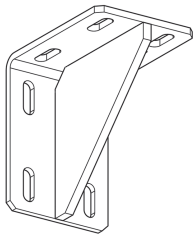
Corner Bracket WD F 100



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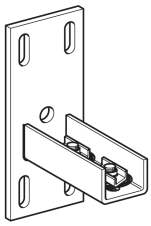
41/41 Channel Adapter SA F 100



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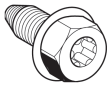
Self Forming Screw FLS



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Assembly Set PS

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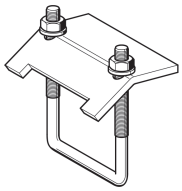
U-Holder SB F 100



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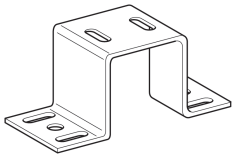
Beam Section Holder TPH F 100



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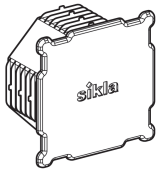
End Cap ADK F 100



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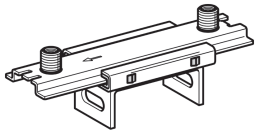
Slide Set GS F 100 2G



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Mounting Plate GPL F 100

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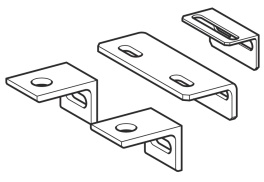
U Bolt Fastening UB F



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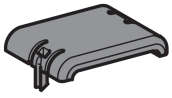
Pad U-UB F 100



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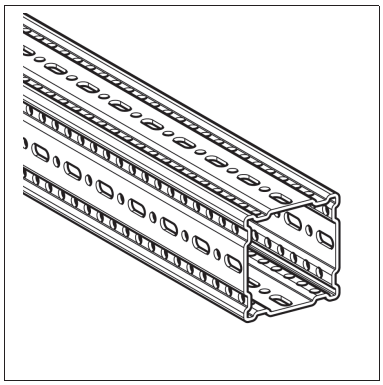
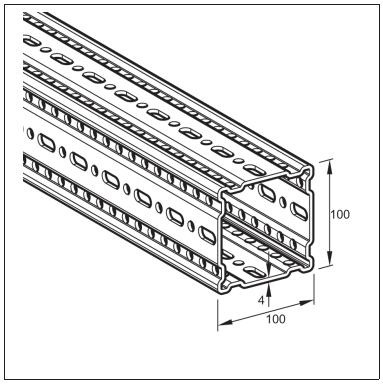
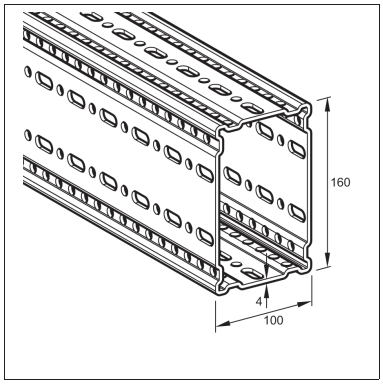
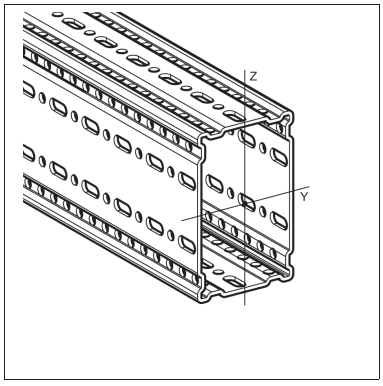








Beam Section TP F 100

Group: A810

Application

Galvanised hollow-box-section for fabrication of steel frames. Designed for both simple two-dimensional supports and complex volumetric arrangements. Holes designed to receive Self Forming Screw FLS in conjunction with the relevant component.

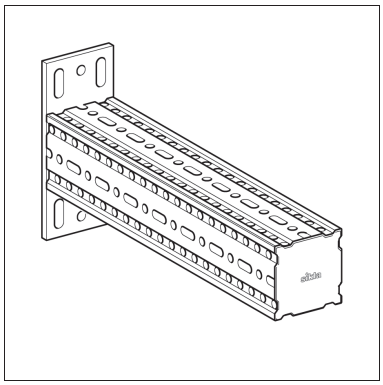
Technical Data

Type	Section modulus [cm^3]	Moment of inertia [cm^4]	Radius of inertia [cm]	Torsional moment It [cm^4]	Cross section A [cm^2]
TP F 100	Wy: 36.27 Wz: 36.27	Iy: 181.38 Iz: 181.38	iy: 3.90 iz: 3.90	302.40	11.92
TP F 100/160	Wy: 69.67 Wz: 52.71	Iy: 557.41 Iz: 263.54	iy: 6.00 iz: 4.12	641.34	15.48

Mechanical properties shown above take into account perforations.

Material: Steel, HCP

Type	Weight [kg/m]	Qty. [m]	Part number
TP F 100	10.8	6	**112904**
TP F 100/160	14.3	6	**112905**



Cantilever Bracket AK F 100

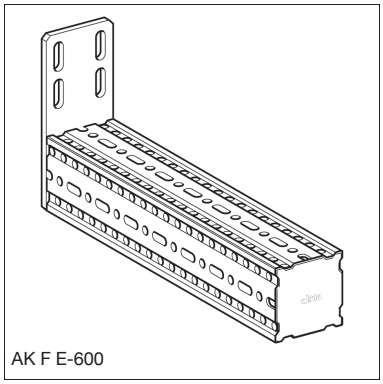
Group: A820

Application

Galvanised hollow-box-section with welded end-plate to serve as cantilever arm. May be used as a crossbar when combined with End Support STA and 4 x Self Forming Screw FLS.

Installation

With 4 x Self Forming Screw FLS when fixed to another Framo hollow-box-section. Alternatively with two suitable wall anchors through holes “A” when fixed directly to building structure.

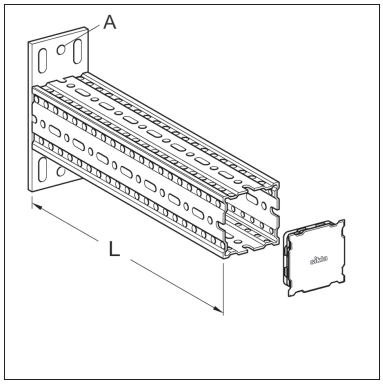


AK F E-600

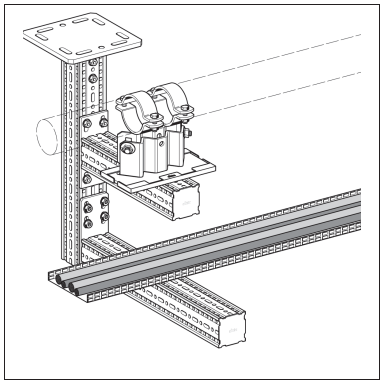
Technical Data

Type	L [mm]	Dimensions of base plate [mm]	Slots in base plate for	Round hole A for
AK F 100-400	400	210 x 100 x 8	M10	M12
AK F 100-800	800	210 x 100 x 8	M10	M12
AK F 100-1200	1200	210 x 100 x 8	M10	M12
AK F 100-E-600	600	210 x 100 x 8	M10	M12

Configuration: Plate welded to Beam Section TP F 100
Material:
Plate: Steel, HCP
Beam Section: Steel, HCP



Type	W [kg]	Quantity [pack]	Part number
AK F 100-400	5.7	1	**113068**
AK F 100-800	10.1	1	**113069**
AK F 100-1200	14.7	1	**113419**
AK F 100-E-600	7.8	1	**113070**



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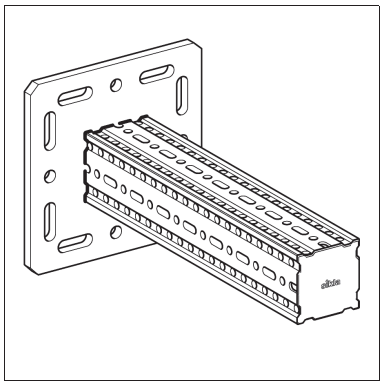
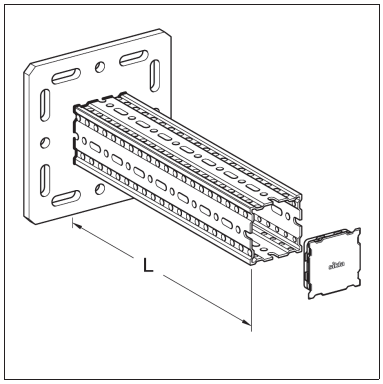
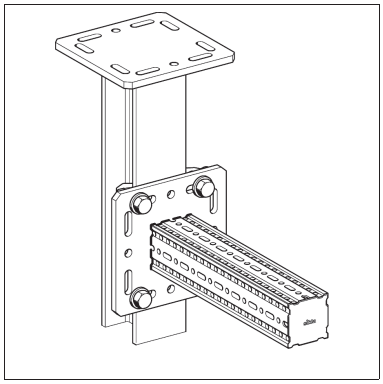






Beam Bracket TKO F 100

Group: A823

Application

Galvanised hollow-box-section with welded end-plate to serve as cantilever arm. May be used as a crossbar when combined with End Support STA/End Support WBD and 4 x Self Forming Screw FLS.

Scope of delivery

With pre-assembled End Cap ADK F100

Installation

Depending on the situation, different options are recommended:

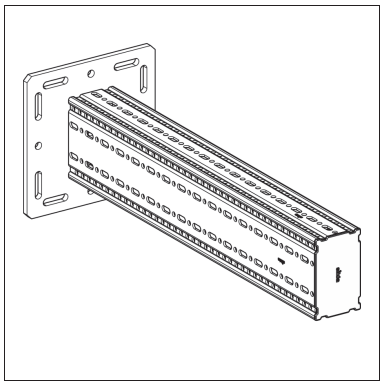
a) Directly to building structure: 4x suitable wall anchors.
b) To traditional steel beams between 80 - 120 mm flange dimensions: with on-demand Adaptor Plate (tbc).
c) To traditional steel beams > 120 flange dimension: with on-demand Adaptor Plate (tbc)
d) To Sikla Simotec Steel Beams 100/120: with Bracket Plates FV 100/120 when positive mechanical connection required.

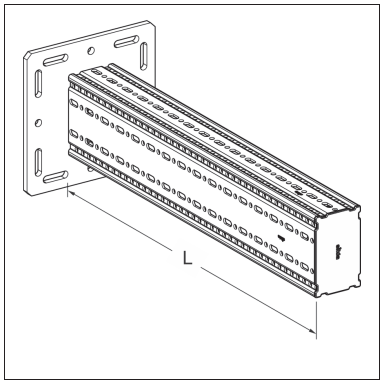
Technical Data

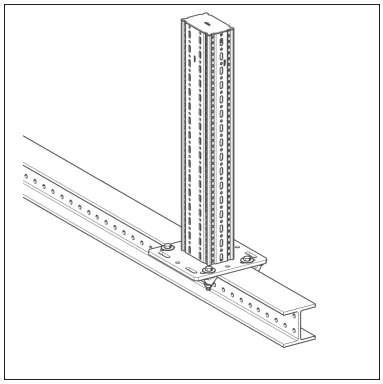
Type	L [mm]	Dimensions of base plate [mm]	Slots in base plate for
TKO F 100-400	400	220 x 220 x 12	M12
TKO F 100-800	800	220 x 220 x 12	M12
TKO F 100-1200	1200	220 x 220 x 12	M12

Configuration: Base plate welded to Beam Section TP F 100
Material:
Plate: Steel, HCP
Beam Section: Steel, HCP

Type	W [kg]	Quantity [pack]	Part number
TKO F 100-400	8.6	1	**113071**
TKO F 100-800	12.8	1	**113072**
TKO F 100-1200	17.5	1	**113421**







Beam Bracket TKO F 100/160

Group: A823

Application

Galvanised hollow-box-section with welded end-plate to serve as cantilever arm. May be used as a crossbar when combined with End Support STA/End Support WBD and 4 x Self Forming Screw FLS.

Scope of delivery

With pre-assembled End Cap ADK F100

Installation

Depending on the situation, different options are recommended:

a) Directly to building structure: 4x suitable wall anchors.
b) To traditional steel beams between 80 - 120 mm flange dimensions: with on-demand Adaptor Plate (tbc).
c) To traditional steel beams > 120 flange dimension: with on-demand Adaptor Plate (tbc)
d) To Sikla Simotec Steel Beams 100/120: with Bracket Plates FV 100/120 when positive mechanical connection required.

Technical Data

Type	L [mm]	Dimensions of base plate [mm]	Slots in base plate for
TKO F 100/160-800	800	280 x 280 x 12	M12
TKO F 100/160-1200	1200	280 x 280 x 12	M12

Configuration: Base plate welded to Beam Section TP F 100/160
Material:
Base plate: Steel, HCP
Beam Section: Steel, HCP

Type	W [kg]	Quantity [pack]	Part number
TKO F 100/160-800	18.5	1	**113097**
TKO F 100/160-1200	24.5	1	**113420**

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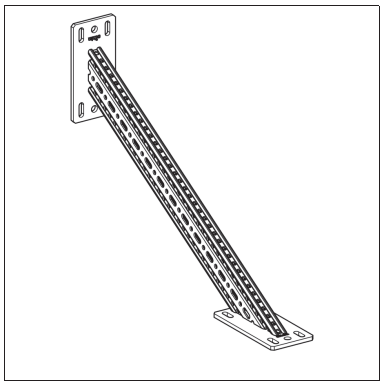


Bracing Arm SKO F 100

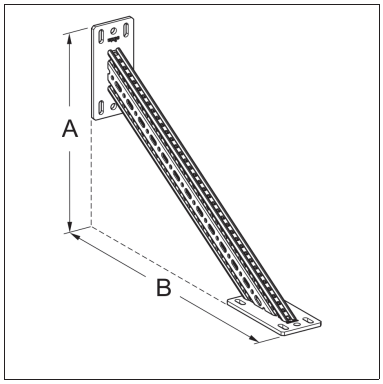
Group: A823

Application

Bracing arm for reinforcement of frames made from Beam Section TP F100 and/ or Cantilever Bracket AK F100.

Installation

- With 2x4 Self Forming Screw FLS when used inside a corner of two F100 size hollow-box sections.
- With 4x Self Forming Screw FLS and 2x suitable wall anchors/fixings when used to connect between one
F 100 size hollow-box section and the building structure.

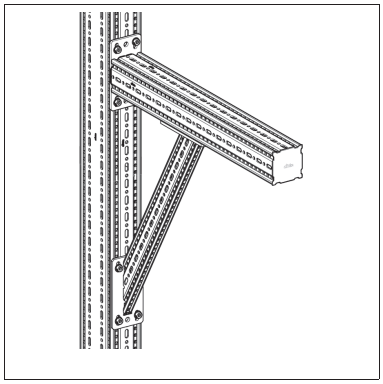


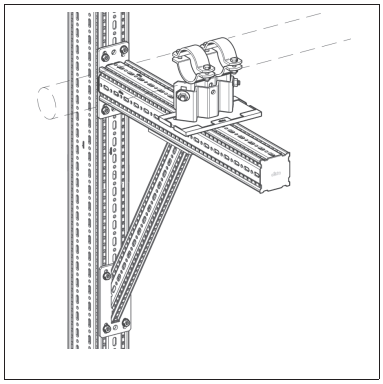
Technical Data

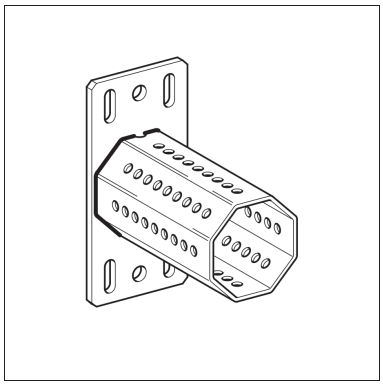
Type	Assembly dimension A	Assembly dimension B
SKO F 100	450	710

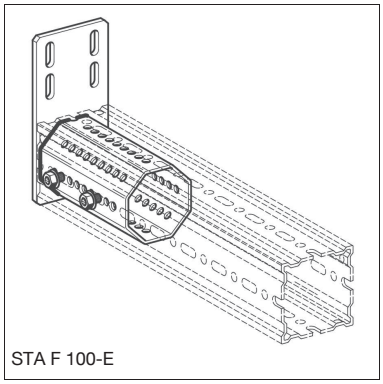
Material: Steel, HCP

Type	W [kg]	Quantity [pack]	Part number
SKO F 100	5.5	1	**113096**

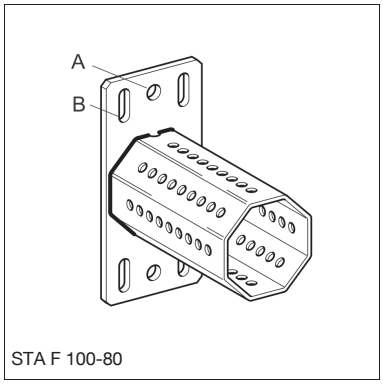








STA F 100-E



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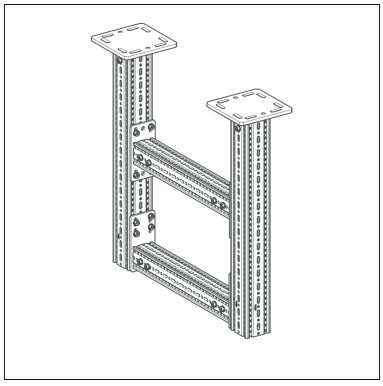

End Support STA F 100

Group: A822

Application

Plug-in component designed to create an endplate at the open end of a Beam Section TP F 100 or a Cantilever bracket AK F 100. Variation types F 100-80 (E) are designed to combine F 100 with F 80 beam sections. Octagonal insert allows full utilisation of beam section within the space required by the End Support STA itself.

Installation

Depending on the situation, different options are recommended:

a) With 2x4 Self Forming Screws FLS when used to connect 2 Beam Sections.

b) With 4 Self Forming Screws FLS applied to the octagonal insert and 2 suitable wall anchors/fixings when connected to the building structure.

Technical Data

Type	Dimensions of base plate [mm]	Slotting A in base plate for	Slotting B in base plate for
STA F 100	210 x 100 x 8	M12	M10
STA F 100-E	185 x 100 x 8	M10	M10
STA F 100-80	210 x 100 x 8	M12	M10
STA F 100-80-E	185 x 100 x 8	M10	M10

Configuration: Base plate welded to Octagon F 100 or F 80
Material:
Base plate: Steel, HCP
Octagon: Steel, HCP

Type	W [kg]	Quantity [pack]	Part number
STA F 100	2.4	1	**113073**
STA F 100-E	2.2	1	**113074**
STA F 100-80	2.0	1	**113337**
STA F 100-80-E	1.8	1	**113481**

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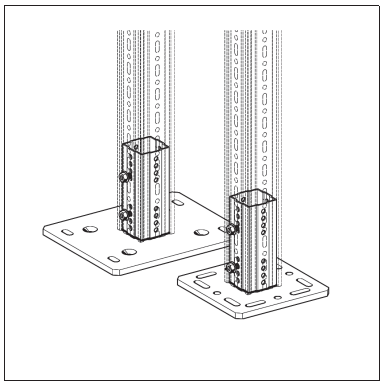
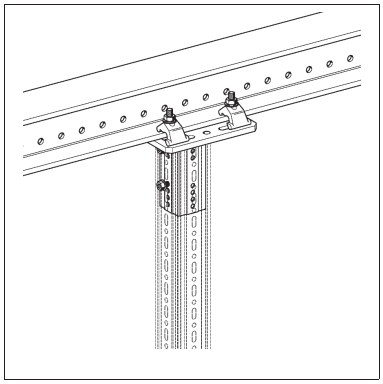
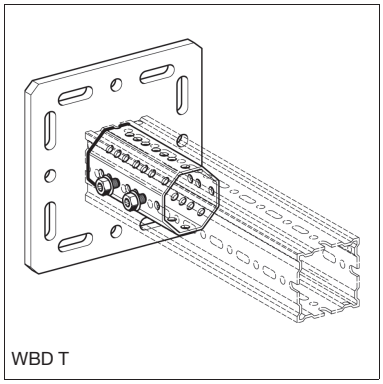
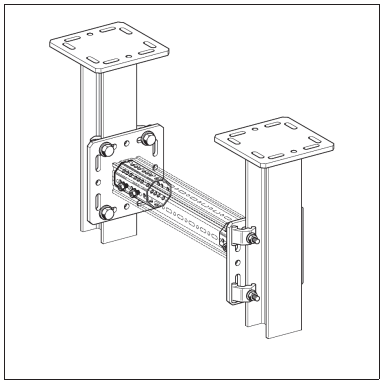






WBD T



End Support WBD F 100

Group: A821

Application

Plug-in component designed to create a square endplate at the open end of a Beam Section TP F 100 or a Beam Bracket/Cantilever bracket AK F 100. Variation “T” with octagonal insert allows full utilisation of beam section within the space required by the End Support WBD itself.

Installation

Depending on the situation, different options are recommended:

a) Directly to building structure: 4 x suitable wall anchors and 4 Self Forming Screws FLS applied to the square/octagonal insert

b) To traditional steel beams between 80 – 300 mm flange dimensions: 1x Assembly Set P2/P3 and 4 Self Forming Screws FLS applied to the square/octagonal insert

c) To traditional steel beams > 120 flange dimension: with on-demand Adaptor Plate (tbc)

d) To Sikla Simotec Steel Beams 100/120: with Bracket Plates FV 100/120 when positive mechanical connection required

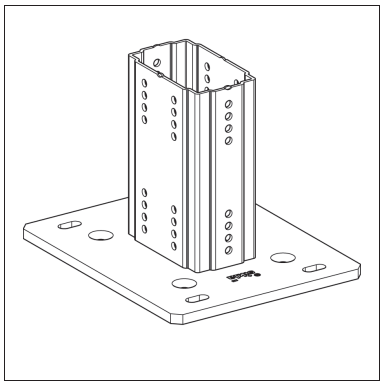
Technical Data

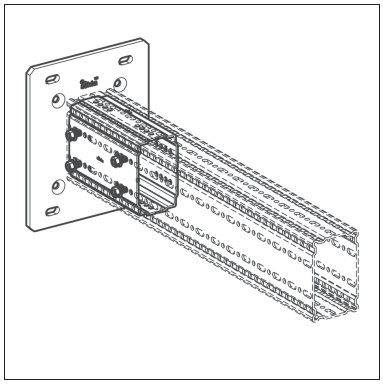
Type	For flange width [mm]	Dimensions of base plate [mm]	Slots in base plate for
WBD F 100-80/120	80 - 120	220 x 220 x 12	M12
WBD F 100-121/160	121 - 160	320 x 260 x 12	M12
WBD F 100-161/200	161 - 200	320 x 310 x 12	M16
WBD F 100-201/300	201 - 300	420 x 220 x 12	M16
WBD F 100-T	80 - 120	220 x 220 x 12	M12

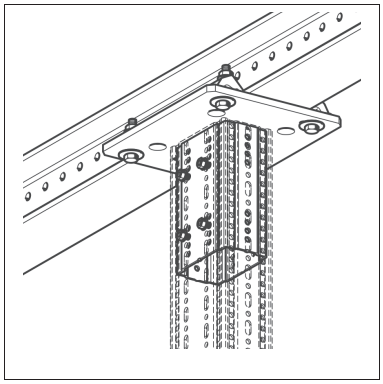
Configuration: Base plate welded to square resp. octagonal element

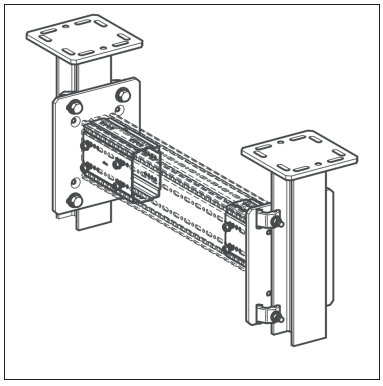
Material:
Base plate: Steel, HCP
Square F 80: Steel, HCP
Octagonal element F 80: Steel, HCP

Type	W [kg]	Quantity [pack]	Part number
WBD F 100-80/120	6.1	1	**113075**
WBD F 100-121/160	9.7	1	**113076**
WBD F 100-161/200	11.2	1	**113077**
WBD F 100-201/300	10.3	1	**113078**
WBD F 100-T	5.3	1	**113079**









End Support WBD F 100/160

Group: A821

Application

Plug-in component designed to create a square endplate at the open end of a Beam Section TP F100 or a Beam Bracket.

Installation

Depending on the situation, different options are recommended:

a) Directly to building structure: 4 x suitable wall anchors and 4 Self Forming Screws FLS applied to the square/octagonal insert.

b) To traditional steel beams between 80 – 300 mm flange dimensions: 1x Assembly Set P2/P3 and 4 Self Forming Screws FLS applied to the square/octagonal insert.

c) To traditional steel beams > 120 flange dimension: with on-demand Adaptor Plate (tbc).

d) To Sikla Simotec Steel Beams 100/120: with Bracket Plates FV 100/120 when positive mechanical connection required.

Technical Data

Type	For flange width [mm]	Dimensions of base plate [mm]	Slots in base plate for
WBD F 100/160-121/160	121 - 160	320 x 260 x 12	M12
WBD F 100/160-161/200	161 - 200	320 x 310 x 12	M16
WBD F 100/160-201/300	201 - 300	420 x 220 x 12	M16

Configuration: Base plate welded to square F 100/60
Material:
Plate: Steel, HCP
Square F 100: Steel, HCP

Type	W [kg]	Quantity [pack]	Part number
WBD F100/160-121/160	10.53	1	**113098**
WBD F100/160-161/200	11.14	1	**113099**
WBD F100/160-201/300	11.95	1	**113100**

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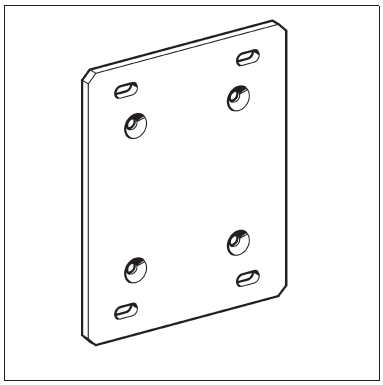
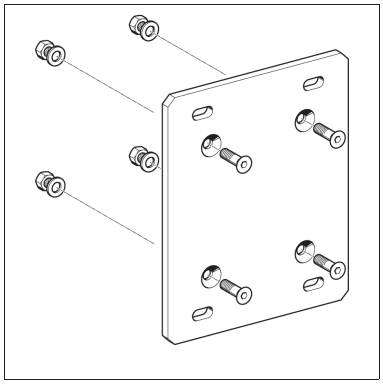
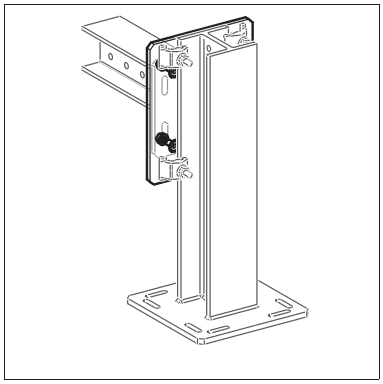
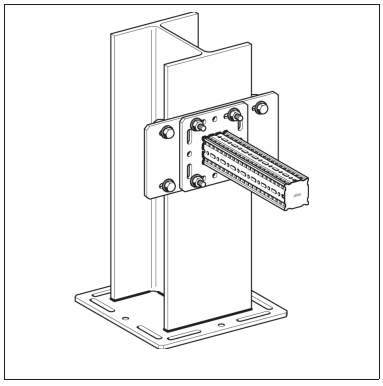








Joining Plate AP

Group: A630

Application

Interface element to enable the connection of standard endplates of Beam Brackets TKO F80 or F100, TKO 100 or 120 to primary steel with flange width >120 mm. Alternatively this product may be used to achieve a greater distance between wall anchor positions when required by the anchor calculation's result.

Scope of delivery

Joining Plate AP
4 Countersink Screws M12 x 40
4 Hexagon Nuts M12
4 Washers

Installation

Connect the Joining Plate AP to the Beam Bracket TKO's end plate by using the accessories above. Then continue with either heavy-duty anchors or Assembly Set P/Beam Clips as required by the building structure.

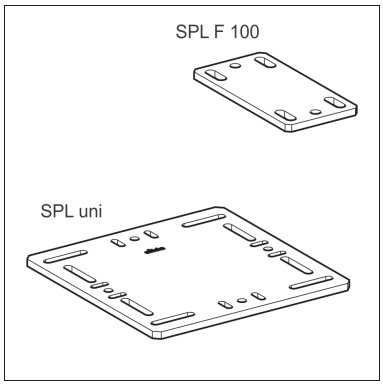
Technical Data

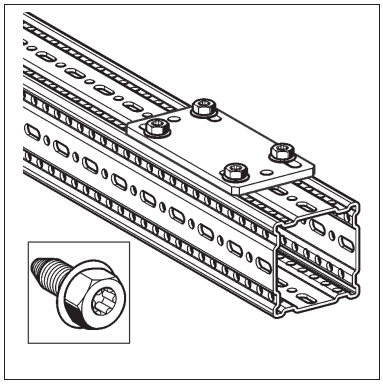
Type	Dimension of Base Plate L x B [mm]	Perforation for	Connection to flange width [mm]
AP 121/160	320 x 260 x 12	M12	121 - 160
AP 161/200	320 x 310 x 12	M16	161 - 200
AP 201/300	420 x 220 x 12	M16	201 - 300
AP 301/310	440 x 220 x 12	M16	301 - 310

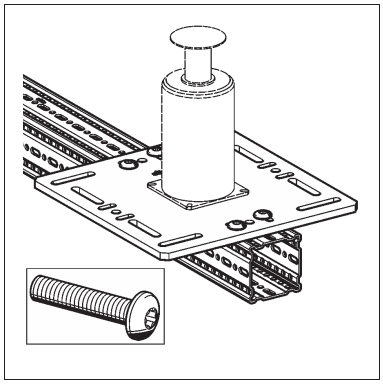
Material:

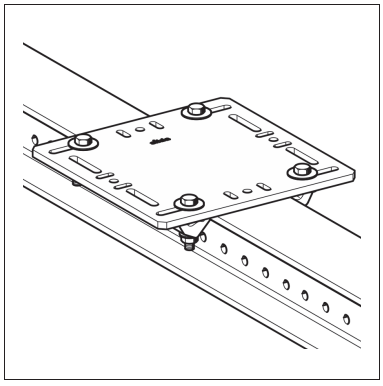
Joining Plate:	Steel, hot-dipped galvanised
Bolts:	Steel DIN 7991, class 8.8, Dacromet/delta seal
Nuts:	Steel, class 8, hot-dipped galvanised
Washers:	Steel, hot-dipped galvanised

Type	W [kg]	Quantity [pack]	Part number
AP 121/160	7.9	1	**183953**
AP 161/200	9.3	1	**183962**
AP 201/300	8.5	1	**183980**
AP 301/310	9.8	1	**113129**









Welding Plate SPL

Group: A430

Application

Interface element to enable a welded connection of load chains, spring hangers etc. to Beam Section TP F. Our type "SPL universal" enables a welded connection to primary steel with flange width up to 300 mm. At the same time it's possible to install type "SPL universal" to Beam Section TP F if a larger installation surface is needed.
The welding plate can be welded directly without previous treatment due to a corrosion-resistant weld-thru coating which is compatible with both the HDG surface of the Framo section and the health and safety requirements of the welding process.

Installation

Depending on the type, different installation methods are recommended:

a) Installation of SPL F 80 or 100 with 4 Self Forming Screws FLS to Beam Section TP F.
b) Installation of SPL universal with 4 Flange Screws SCR FLA TT M10 x 25 (part no. 110503) to Beam Section TP F.
c) Installation of SPL universal by means of 1 Assembly Set P2 S (part no. 168494) to primary steel with flange width between 100 and 300 mm.

Technical Data

Type	Installation surface [mm]	Mounting Plate size [mm]
SPL F 80	70 x 20	110 x 80 x 8
SPL F 100	80 x 80	180 x 90 x 8
SPL universal	220 x 220	370 x 370 x 12

Material: Steel, HCP

Type	W [kg]	Quantity [pack]	Part number
SPL F 80	0.5	1	**113831**
SPL F 100	1.0	1	**113635**
SPL universal	11.9	1	**113636**

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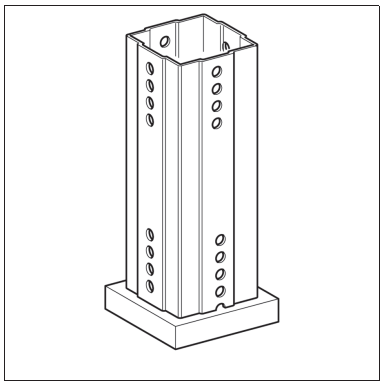
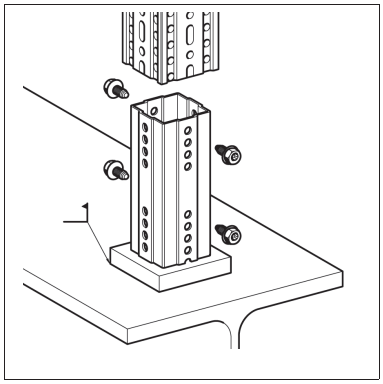
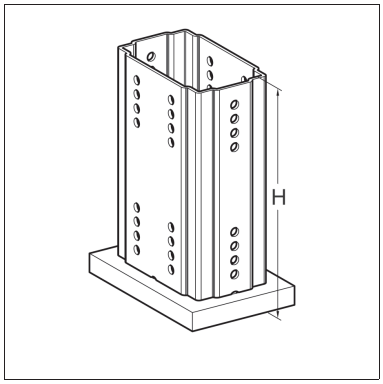
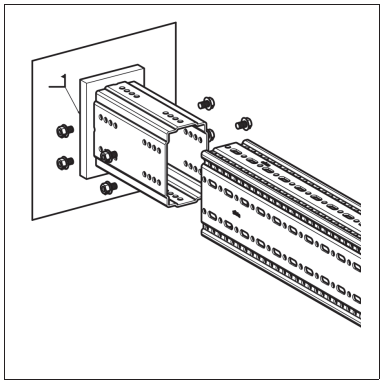








Welding Apater ASA F 100 Square

Group: A828

Application

Welding plate with square insert to receive Framo section. May be implemented into the structural steel design in anticipation of Framo-frames or used in situ as a connection element when clamping is not an option but hot works are permitted.

Scope of delivery

Mounting Plate 100 with welded on square joint.

Installation

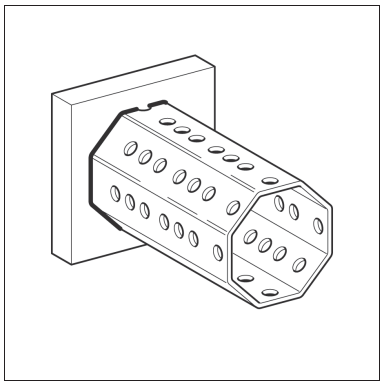
The welding plate of the ASA can be welded directly without previous treatment due to a corrosion-resistant weld-thru coating which is compatible with both the HDG surface of the Framo section and the health and safety requirements of the welding process. Once the ASA adapter has been connected, the coating may also receive paint without previous treatment. The Framo section must be connected to the Welding Adapter ASA with 4 x Self Forming Screw FLS.

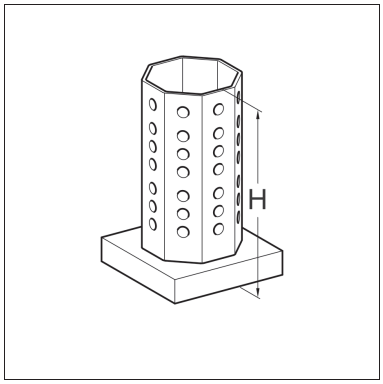
Technical Data

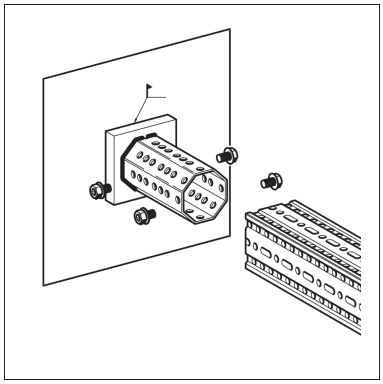
Type	Adapter size H [mm]	Mounting Plate size [mm]
ASA F 100 GPL 4kt	240	120 x 120 x 20
ASA F 100/160 GPL 4kt	240	180 x 120 x 20

Material: Steel, HCP

Type	W [kg]	Quantity [pack]	Part number
ASA F 100 GPL 4kt	4.4	1	**113339**
ASA F 100/160 GPL 4kt	6.5	1	**113410**







Welding Adapter ASA F 100 Octagon

Group: A828

Application

Welding plate with octagonal insert to receive Framo section. May be implemented into the structural steel design in anticipation of Framo-frames or used in situ as a connection element when clamping is not an option but hot works are permitted. The octagonal insert allows for full utilisation of beam section within the space required by the Welding Adapter ASA itself.

Scope of delivery

Mounting Plate 100 with welded on octagonal joint.

Installation

The welding plate of the ASA can be welded directly without previous treatment due to a corrosion-resistant weld-thru coating which is compatible with both the HDG surface of the Framo section and the health and safety requirements of the welding process. Once the ASA adapter has been connected, the coating may also receive paint without previous treatment. The Framo section must be connected to the Welding Adapter ASA with 4 x Self Forming Screw FLS.

Technical Data

Type	Adapter size H [mm]	Mounting Plate size [mm]
ASA F 100 GPL 8kt	200	120 x 120 x 20

Material: Steel, HCP

Type	W [kg]	Quantity [pack]	Part number
ASA F 100 GPL 8kt	2.1	1	**113080**

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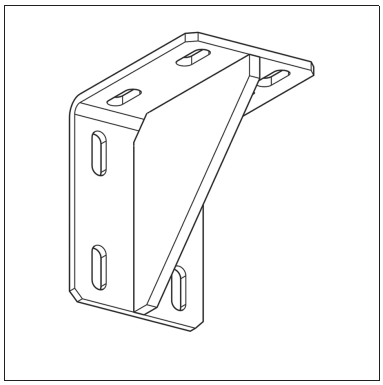
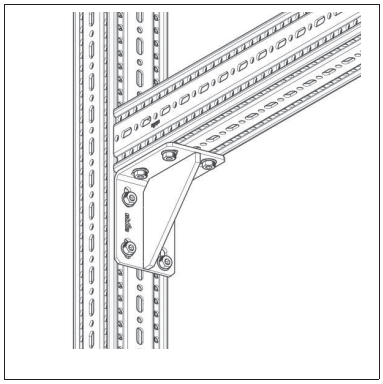




Corner Bracket WD F 100

Group: A430

Application

Component to be used for connections between two F100 or F100/160 sections when the structural design requires an alternative to the End Support STA F 100 as the default solution.

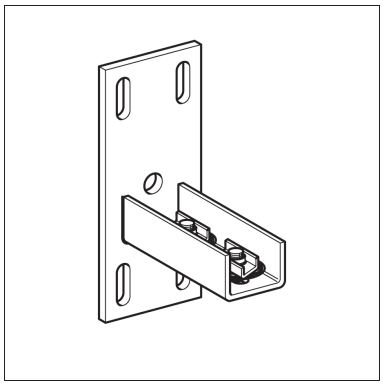
Installation

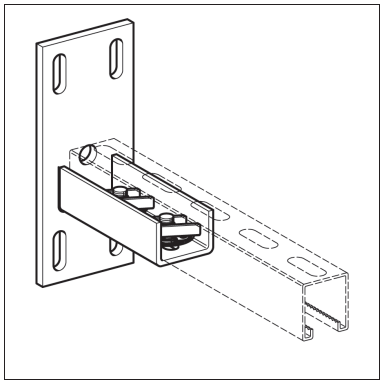
By using 8 x Self Forming Screw FLS

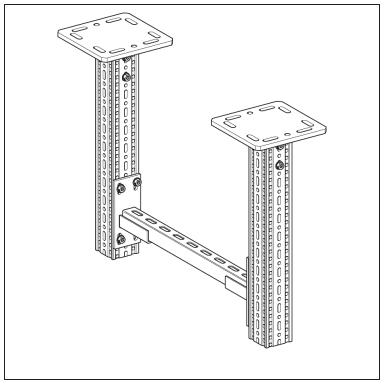
Technical Data

Material: Steel, HCP

Type	W [kg]	Quantity [pack]	Part number
WD F 100 140/140	1.9	1	**113095**







41/41 Channel Adapter SA F 100

Group: A827

Application

Interface element to enable a stiff and solid connection between the Framo profile and strut channel of the international 41/41 mm standard. The 41/41 Channel Adapter SA F100 is equipped with automatically locking spring nuts which means that no accessories from the strut channel's range are required in order to make the connection.

Installation

The Channel Adapter SA F100-41 requires 4 x Self Forming Screw FLS in order to be connected to the Framo profile. The strut channel must be inserted with the slot first whilst pressing the two bolt's heads triggering an automatic 90°-locking operation of the two channel spring nuts. The strut channel is now securely held and can be adjusted. Finally the two screws must be tightened with the appropriate torque for the strut channel used.

Technical Data

Type	Dimension of base plate [mm]	Slots in base plate
SA F 100-41	190 x 80 x 8	M10

Material: Steel, HCP

Type	W [kg]	Quantity [pack]	Part number
SA F 100-41	1.8	1	**113081**

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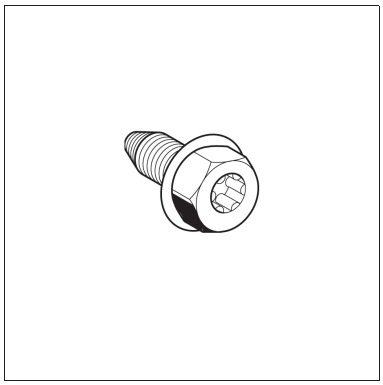
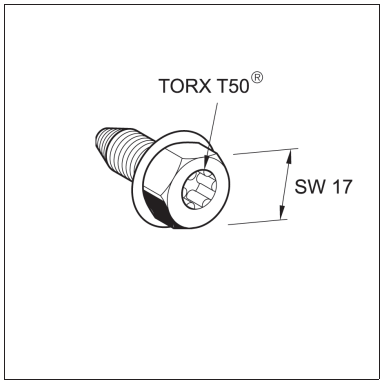




Self Forming Screw FLS

Group: A430

Application

The Self Forming Screw FLS creates its own thread inside the wall of the Framo pilot hole. During the screw-driving operation, the base steel is re-shaped and hardened to form an air-tight seal between the threads of the screw and the surrounding steel, making it exceptionally resistant to vibrational loosening and increasing fastening strength.

Technical Data

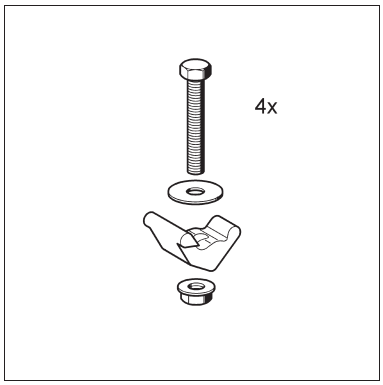
Application	Tightening torque [Nm]
System Framo	60
Connection to Channels MS 41	35

Material: Steel, HCP

Approvals

MPA tested

Type	W [kg]	Quantity [pack]	Part number
FLS F	0.03	100	**192512**



Assembly Set PS

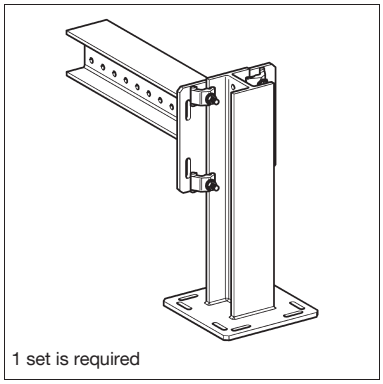
Group: A640

Application

Element for connecting Beam Bracket TKO, Angled Beam Bracket SKO or End Support WBD to a beam section.

Scope of delivery

Type	Beam Clip [Qty.]	Hexagon bolt 8.8 [Qty.]	Washer [Qty.]	Hexagon nut [Qty.]
Set P2 S	4 x P2	4 x M12 x 80	8 x 12/40	4 x M12
Set P3 S	4 x P3	4 x M16 x 100	8 x 16/125	4 x M16
Set P2/2 S	2 x P2	2 x M12 x 80	4 x 12/40	2 x M12



1 set is required

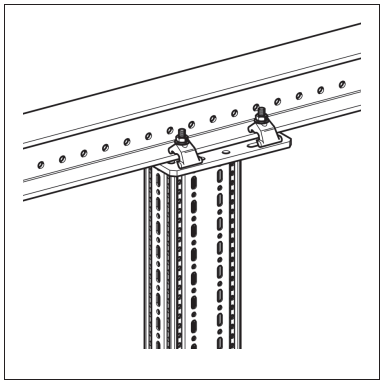
Installation

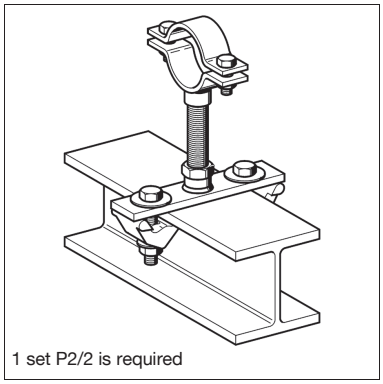
- The narrow ends of the Beam Clips must be fixed to the beam flange.
- Max. perm. torque of all M12 bolts: 85 Nm (Set P2 S)
- Max. perm. torque of all M16 bolts: 150 Nm (Set P3 S)
- Once fully tightened, the hexagon bolts must not be re-used!

Technical Data

Material: Steel and cast iron, hcp

Type	W [kg]	Qty. [set]	Part number
Set P2 S	1.6	1	**168494**
Set P3 S	2.0	1	**179147**
Set P2/2 S	0.6	1	**183800**





1 set P2/2 is required

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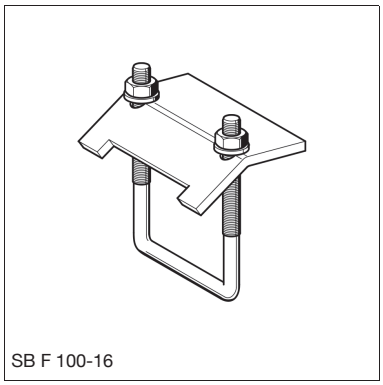
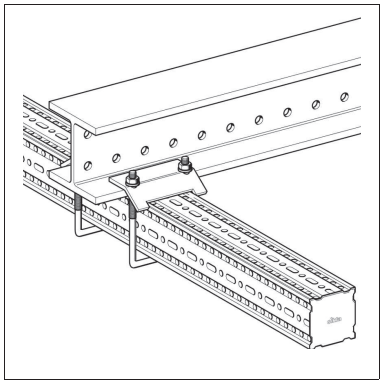
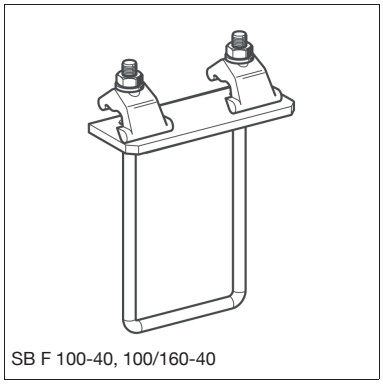
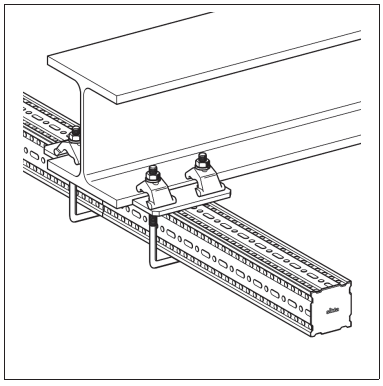


SB F 100-16





SB F 100-40, 100/160-40



U-Holder SB F 100

Group: A839

Application
Pre-assembled component to clamp Beam Section F100 to the flange side of traditional steel sections.

Scope of delivery
Type SB F 100-16:
Holder with thread M10
Plate
2 Hexagon nuts M10
2 Washers

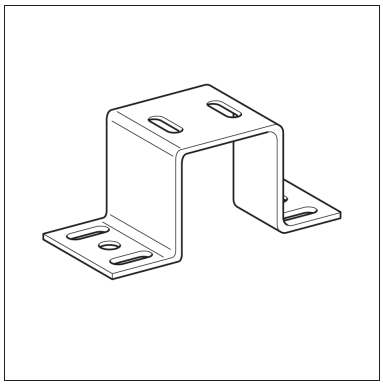
Type SB F 100-40 and 100/160-40
Holder with thread M12
Plate
2 Beam Clips P2
2 Hexagon nuts M12
2 Washers

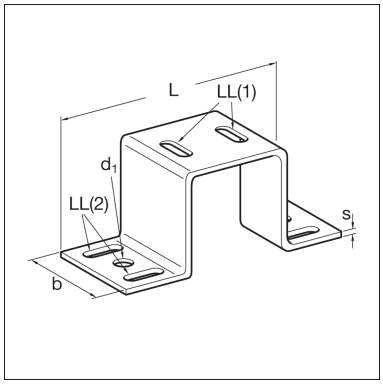
Installation
U-Holder to be used in pairs.
Type 16 up to flange thickness 16 mm
Type 40 up to flange thickness 40 mm

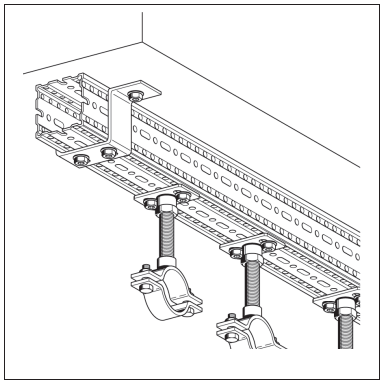
Technical Data
Material:

U-Holder:	Steel, HCP
Plate:	Steel, HCP
Beam Clip	Steel resp. Cast iron, HCP
Hex-nut/Washer:	Steel, HCP

Type	W [kg]	Quantity [pack]	Part number
SB F 100-16	0.7	20	**113082**
SB F 100-40	1.6	10	**113083**
SB F 100/160-40	1.7	10	**113101**







Beam Section Holder TPH F 100

Group: A825

Application

Interface element to connect 90° intersecting Beam Sections F100. Alternatively the Beam Section Holder TPH may be used to connect only one beam section to an even surface with suitable wall anchors or with cast-in channel accessories.

Installation

Connecting one Beam Section F100 90° to another one by using 6 x Self Forming Screw FLS applied through all elongated holes. Connecting to any other surface or member by using 2 x Self Forming Screws FLS through the two elongated holes on the top of the Beam Section Holder TPH F100 plus 2 appropriate fixing elements up to M12 through the two holes “d1”.

Technical Data

Type	L x b x s [mm]	Ø d_1 [mm]	Elongated hole LL1 d x a [mm]	Elongated hole LL2 d x a [mm]
TPH F 100 C	219 x 100 x 4	14	11 x 20	11 x 20
TPH F 100/80 C	199 x 100 x 4	14	11 x 20	11 x 20

Material: Steel, HCP

Type	W [kg]	Quantity [pack]	Part number
TPH F 100 C	1.2	10	**113084**
TPH F 100/80 C	1.0	10	**113085**

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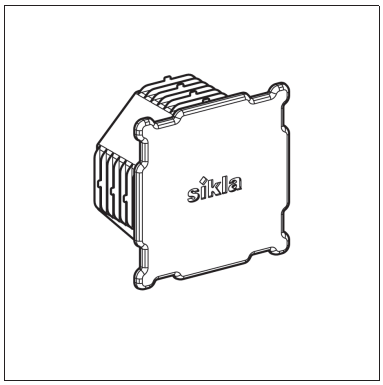


End Cap ADK F 100

Group: A430

Application

Plastic end cap to close cut ends of Beam Section F100 to meet both visual and health & safety requirements. Standard Cantilever- and Beam Brackets (AK F100 and TKO F100) already include this end cap.

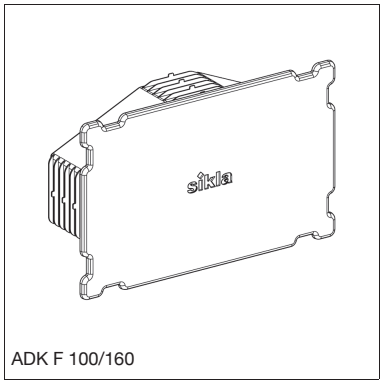
Installation

Mallet required.

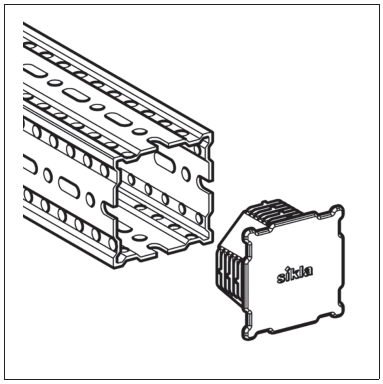
Technical Data

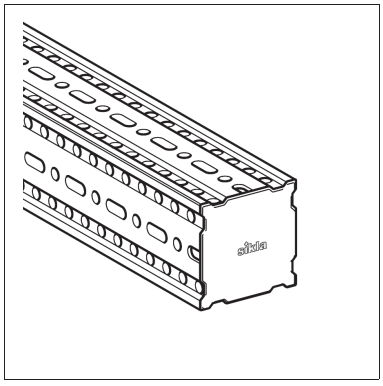
Material: PE, colour yellow

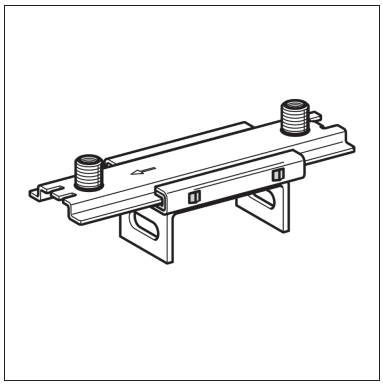
Type	W [kg]	Quantity [pack]	Part number
ADK F 100	0.05	25	**113086**
ADK F 100/160	0.08	25	**113102**

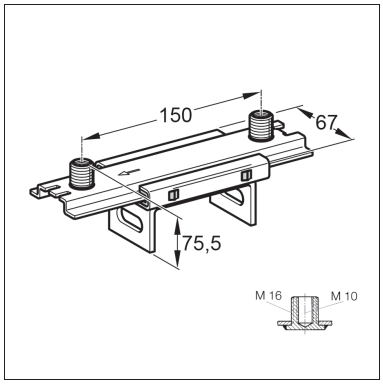


ADK F 100/160









Slide Set GS F 100 2G

Group: A436

Application

Pipe guide for twin-clamp connection designed to clutch the Beam Section F100 fixed by 2 x Self Forming Screws FLS.

Installation

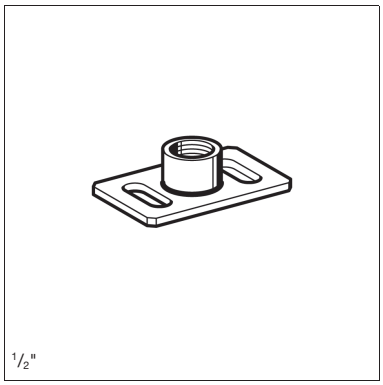
Pipe clamp connection points “2G” receive M10 studs or M16 by adapter connection.

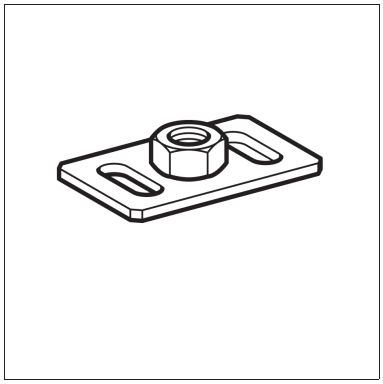
Technical Data

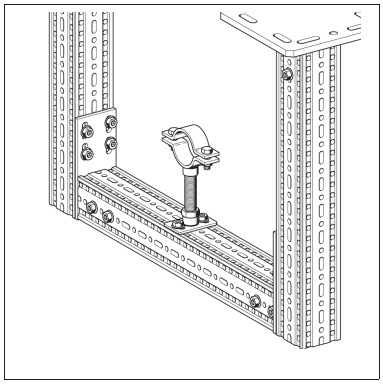
Permanent temperature range: 130° C

Material:
Slide element: Steel, HCP
Slide bars: Polyamide (glass-fibre reinforced)
Retaining plate: Steel, HCP

Type	W [kg]	Quantity [pack]	Part number
GS F 100 2G2	0.8	10	**113093**







Mounting Plate GPL F 100

Group: A838

Application

Interface component to connect threaded bar and threaded tube to Beam Section F100.

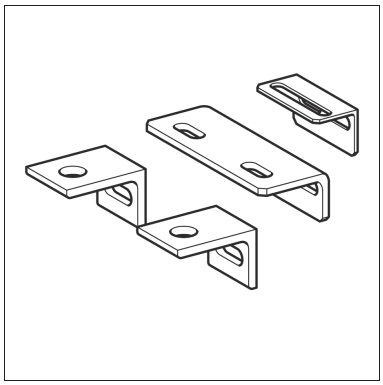
Installation

Requires 2 x Self Forming Screw FLS per Mounting Plate GPL.

Technical Data

Dimensions of Base plate:	100 x 50 x 4 mm
Material:	Steel, HCP

Type	W [kg]	Quantity [pack]	Part number
GPL F 100-1/2"	0.2	50	**113089**
GPL F 100-M10	0.2	50	**113338**
GPL F 100-M12	0.2	50	**113646**
GPL F 100-M16	0.2	50	**113090**



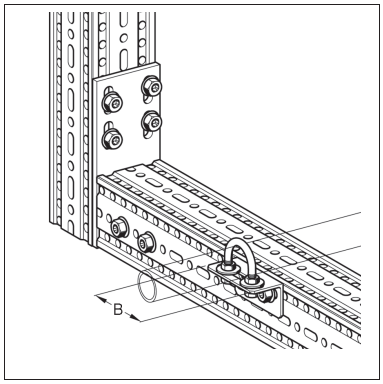
U Bolt Fastening UB F

Group: A430

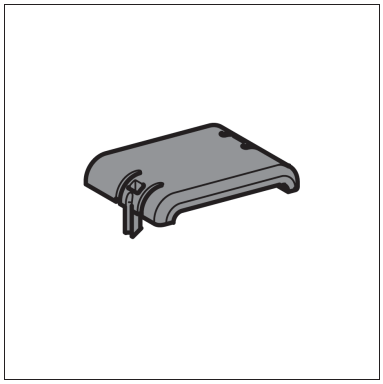
Application
U Bolt Fastening to connect standard U-Bolts required for pipework to the supporting Beam Sections, Cantilever Brackets and Beam Brackets F80 or F100.

Scope of delivery
For U-bolts ≥ 4" always 2 U-bolt fastenings F are needed.

Technical Data
Material: Steel, HCP or hot-dipped galvanised



Type	B [mm]	W [kg]	Quantity [pack]	Part number
UB F $^1/_2$" - 1 $^1/_2$"	85	0.13	25	**192931**
UB F 2" - 3"	165	0.64	10	**196212**
UB F 4" - 6"	45	0.18	20	**113124**
UB F 8" - 12"	45	0.15	20	**113125**
UB F 378 - 530	45	0.15	20	**113126**



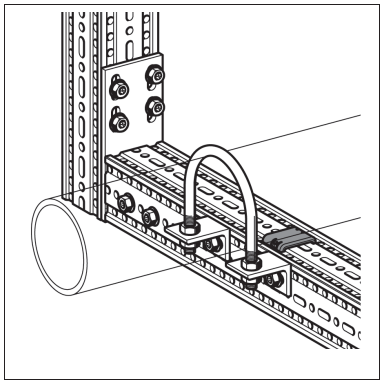
Pad U-UB F 100

Group: A430

Application
Insulation and surface protection pad to be used on demand when a pipes' expansion and contraction occurs directly on the F100 section.

Technical Data
Material: Polyamide PA 6.0
Range of temperature: -20° up to +130° C

Type	W [kg]	Quantity [pack]	Part number
U-UB F 100	0.01	50	**113094**



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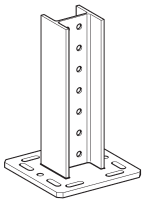
Beam Bracket TKO 100



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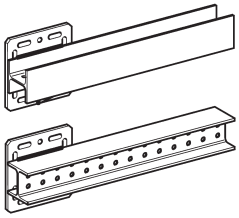
Joining Beam Bracket QKO 100



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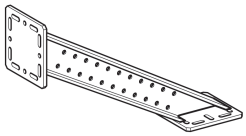
Angled Beam Bracket SKO 100



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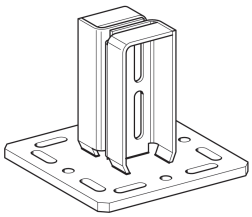
End Support STA 100



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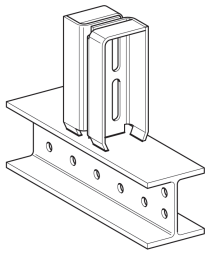
T-Adapter TA 100



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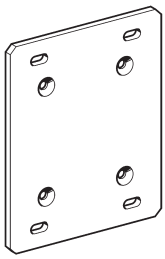
Joining Plate AP



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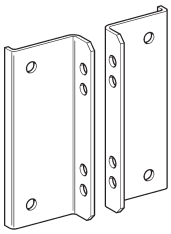
Bracket Plates FV 100/120



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Assembly Set PS

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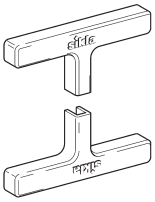
End Cap ADK 100



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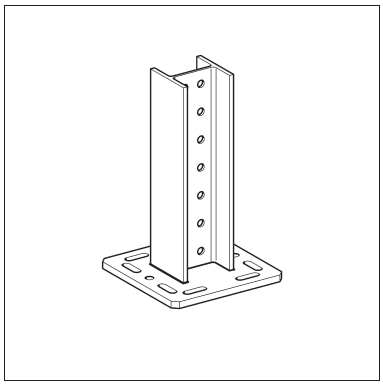

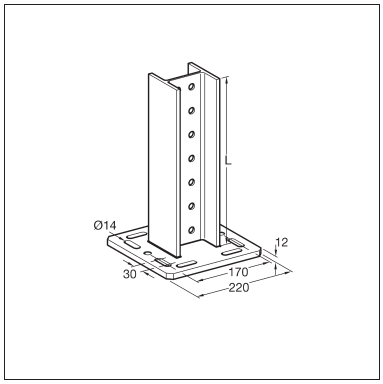

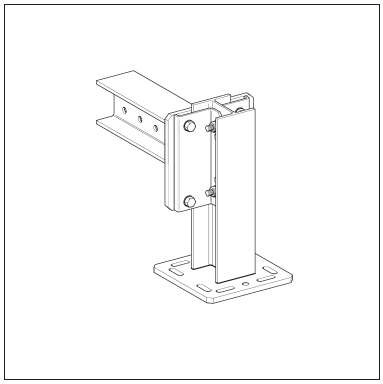

Beam Bracket TKO 100

Application
Element for mounting to floors, ceilings or walls or for assembling crossbars.

Installation
Depending on the situation, different options are recommended:
a) Fixing to building structure using 4 heavy-duty anchors M12.
b) Frictional connection to steel beams (flange width 80 - 120 mm) with Assembly Set P2.
c) Interlocking connection to other beam brackets TKO 100 or 120 by means of Bracket Plates FV 100/120.

Technical Data
Configuration: Base plate welded to IPBI 100 beam
Material: Steel, hot-dipped galvanised

Type	L [mm]	W [kg]	Quantity [pack]	Part number
TKO 100 x 250	250	8.5	1	**193099**
TKO 100 x 350	350	10.4	1	**185402**
TKO 100 x 400	400	11.2	1	**185411**
TKO 100 x 450	450	11.9	1	**185420**
TKO 100 x 500	500	12.7	1	**185429**
TKO 100 x 550	550	13.7	1	**185438**
TKO 100 x 600	600	14.2	1	**185447**
TKO 100 x 650	650	15.0	1	**185456**
TKO 100 x 700	700	16.6	1	**185465**
TKO 100 x 750	750	17.2	1	**185474**
TKO 100 x 800	800	17.9	1	**185483**
TKO 100 x 850	850	18.8	1	**185492**
TKO 100 x 900	900	19.6	1	**185501**
TKO 100 x 950	950	20.3	1	**185510**
TKO 100 x 1000	1000	21.2	1	**185519**
TKO 100 x 1100	1100	22.3	1	**185528**
TKO 100 x 1200	1200	25.2	1	**185537**
TKO 100 x 1300	1300	25.8	1	**185546**
TKO 100 x 1400	1400	28.6	1	**185555**
TKO 100 x 1500	1500	30.1	1	**185564**
TKO 100 x 2000	2000	39.0	1	**185573**

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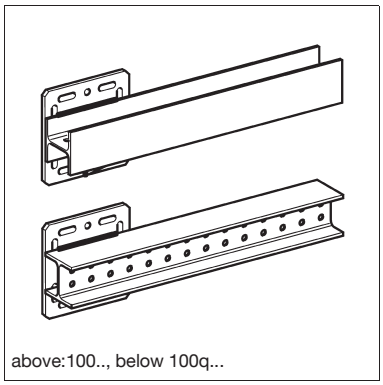
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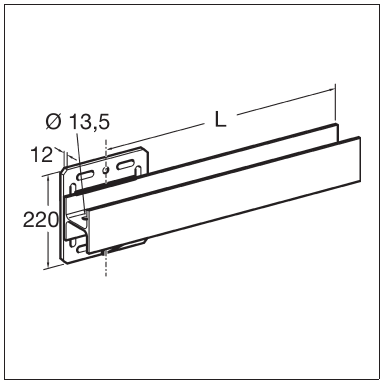
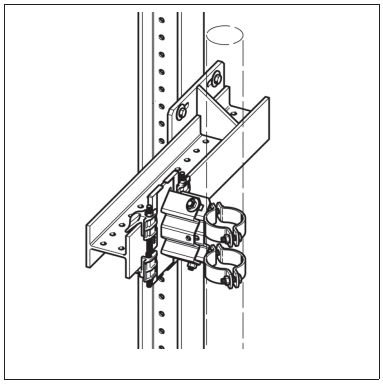
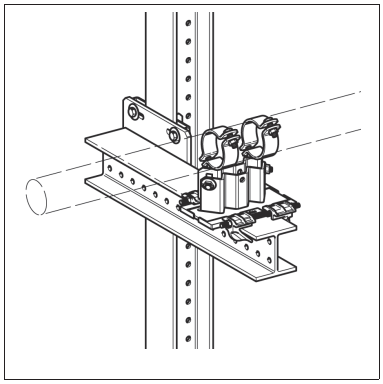






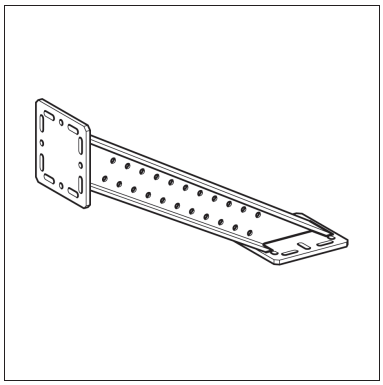
Joining Beam Bracket QKO 100

Application
Element for vertical assembly on concrete or steel beams, especially for risers.

Installation
Depending on the situation, different options are recommended:
a) Fixing on concrete by means of 4 heavy duty anchors M12
b) Frictional connection to steel beams (flange width 80 - 120 mm) by means of Assembly Set P2.
c) Interlocking connection to TKO 100 or 120 by means of Bracket Plates FV 100/120

Technical Data
Configuration: Base plate and support flange welded to IPBl 100
Material: Steel, hot-dipped galvanised

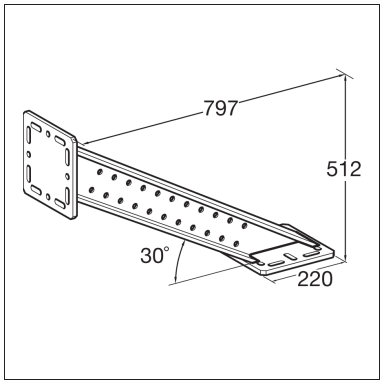
Type	L [mm]	W [kg]	Quantity [pack]	Part number
QKO 100 x 600	600	17.1	1	**183917**
QKO 100 x 1000	1000	24.1	1	**183926**
QKO 100q x 600	600	16.5	1	**183935**
QKO 100q x 1000	1000	23.5	1	**183944**



Angled Beam Bracket SKO 100

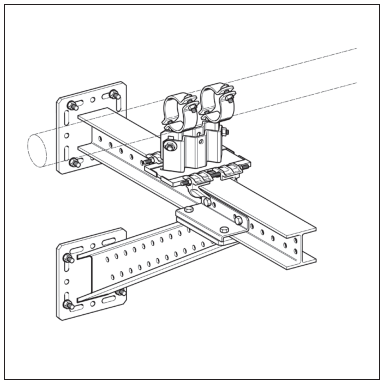
Application
Beam Bracket suitable as support for horizontal structures or as reinforcement of bearing constructions on site.

Installation
Depending on the situation, different options are recommended:
a) Fixing to the building structure using 4 heavy-duty anchors M12.
b) Frictional construction to steel beams (flange width 80 - 120 mm) with Assembly Set P2.
c) Interlocking connection to Beam Bracket TKO 100 or 120 by means of Bracket Plates FV 100/120.



Technical Data
Configuration: Base plate welded to beam section 100
Material: Steel, hot-dipped galvanised

Type	W [kg]	Quantity [pack]	Part number
SKO 100-30 x 760	22.0	1	**191531**



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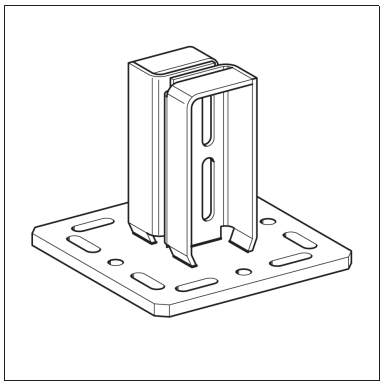
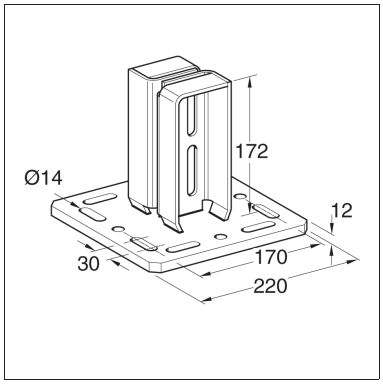
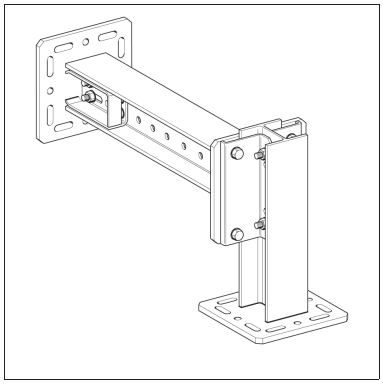






End Support STA 100

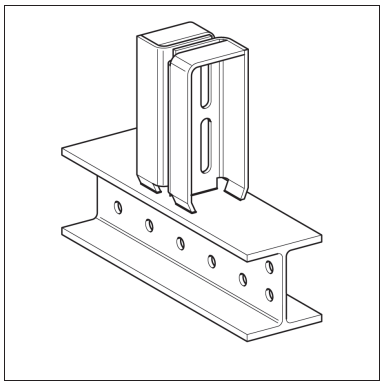
Application
In connection with Beam Bracket TKO 100, the End Support STA 100 enables the construction of crossbars, as well as further conjuctions between building structure and steel construction. By means of the slotted holes a simple compensation of structural deviations is possible.

Scope of delivery
Base plate welded to beam holder
Accessories:
4 Hexagon Bolts M12 x 35
4 Hexagon Nuts M12
8 Washers

Technical Data

Material:
STA 100: Steel, hot-dipped galvanised
Bolts: Steel, class 8.8, hot-dipped galvanised
Nuts: Steel, class 8.8, hot-dipped galvanised
Washers: Steel, hot-dipped galvanised

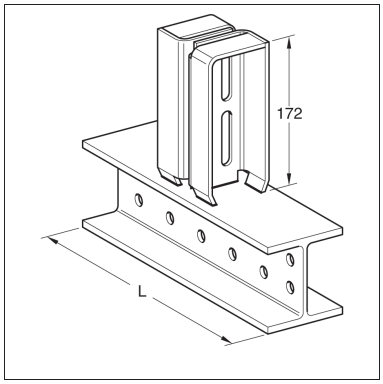
Type	W [kg]	Quantity [pack]	Part number
STA 100	6.4	1	**183971**



T-Adapter TA 100

Application
In combination with Beam Bracket TKO 100, the T-Adapter allows different T-structures on the floor or hanging T-structures without need of further accessories. Oblong holes permit a simple compensation on structural situations.

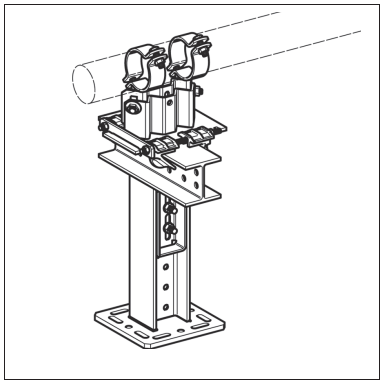
Scope of delivery
T-Adapter TA 100
Accessories:
4 Hexagon Bolts M12 x 45
4 Hexagon Nuts M12
8 Washers



Technical Data

Configuration:	Beam 100 welded to beam holder
Material:	
TA 100:	Steel, hot-dipped galvanised
Bolts:	Steel, class 8.8, hot-dipped galvanised
Nuts:	Steel, class 8, hot-dipped galvanised
Washers:	Steel, hot-dipped galvanised

Type	L [mm]	W [kg]	Quantity [pack]	Part number
TA 100 x 200	200	5.1	1	**191081**
TA 100 x 400	400	8.4	1	**191166**
TA 100 x 600	600	11.8	1	**191099**



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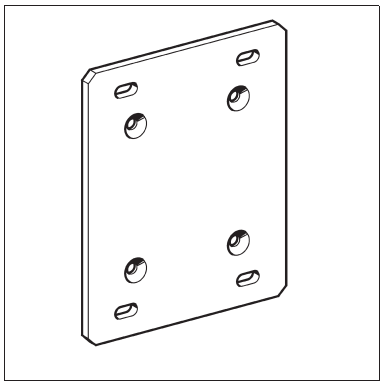
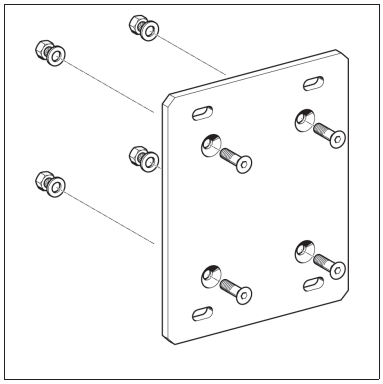
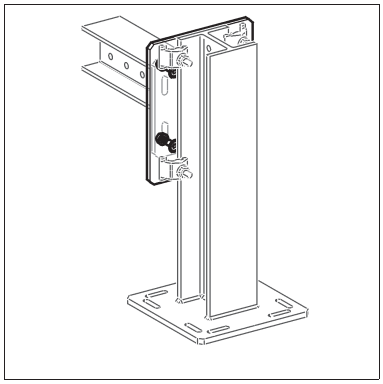
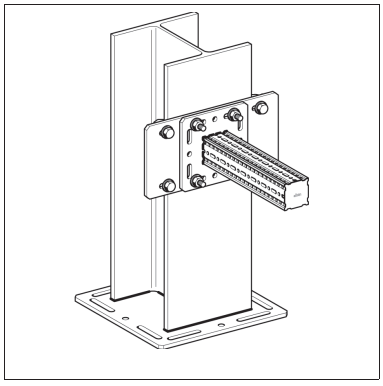








Joining Plate AP

Application
Interface element to enable the connection of standard endplates of Beam Brackets TKO F80 or F100, TKO 100 or 120 to primary steel with flange width >120 mm. Alternatively this product may be used to achieve a greater distance between wall anchor positions when required by the anchor calculation's result.

Scope of delivery
Joining Plate AP
4 Countersink Screws M12 x 40
4 Hexagon Nuts M12
4 Washers

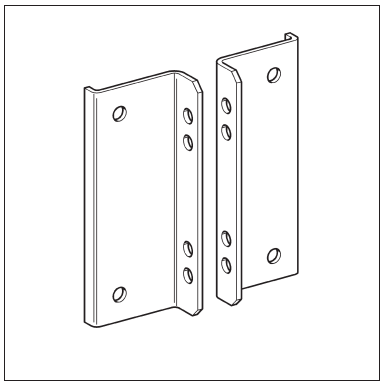
Installation
Connect the Joining Plate AP to the Beam Bracket TKO's end plate by using the accessories above. Then continue with either heavy-duty anchors or Assembly Set P/Beam Clips as required by the building structure.

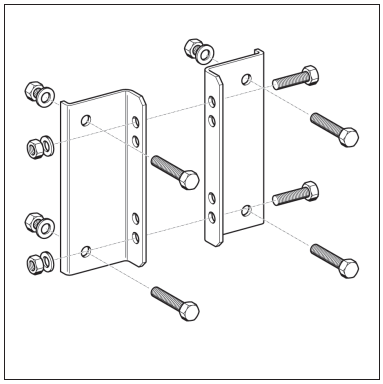
Technical Data

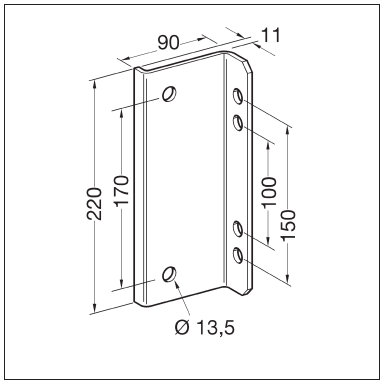
Type	Dimension of Base Plate L x B [mm]	Perforation for	Connection to flange width [mm]
AP 121/160	320 x 260 x 12	M12	121 - 160
AP 161/200	320 x 310 x 12	M16	161 - 200
AP 201/300	420 x 220 x 12	M16	201 - 300
AP 301/310	440 x 220 x 12	M16	301 - 310

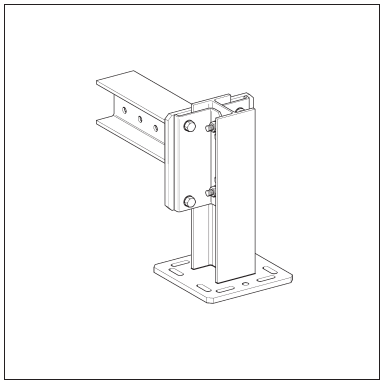
Material:
Joining Plate: Steel, hot-dipped galvanised
Bolts: Steel DIN 7991, class 8.8, Dacromet/delta seal
Nuts: Steel, class 8, hot-dipped galvanised
Washers: Steel, hot-dipped galvanised

Type	W [kg]	Quantity [pack]	Part number
AP 121/160	7.9	1	**183953**
AP 161/200	9.3	1	**183962**
AP 201/300	8.5	1	**183980**
AP 301/310	9.8	1	**113129**









Bracket Plates FV 100/120

Application
For safe interlocking connection of a Beam Bracket or an End Support STA to other Beam Brackets TKO (adjustment as per grid with 25 or 50 mm).

Scope of delivery
Two identical plates.
Accessories:
2 Hexagon Bolts M12 x 35
4 Hexagon Bolts M12 x 45
6 Hexagon Nuts M12
6 Washers

Installation
Mount Bracket Plates to Beam Bracket TKO by using 2 Hexagon Bolts M12 x 35. Then attach requested Beam Bracket TKO or End Support STA by using 4 Hexagon Bolts M12 x 45.

Technical Data
Material:

Bracket Plates:	Steel, hot-dipped galvanised
Bolts:	Steel, class 8.8, hot-dipped galvanised
Nuts:	Steel, class 8, hot-dipped galvanised
Washers:	Steel, hot-dipped galvanised

Type	W [kg]	Quantity [pack]	Part number
FV 100/120	2.5	1	**187616**

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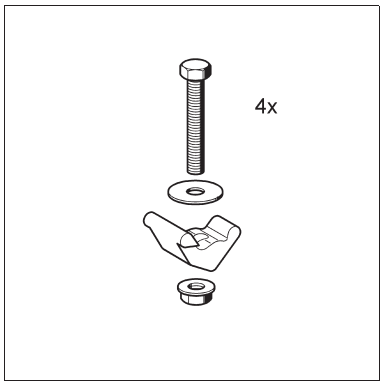


Assembly Set PS

Application
Element for connecting Beam Bracket TKO, Angled Beam Bracket SKO or End Support WBD to a beam section.

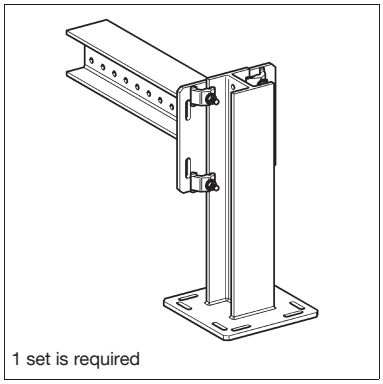
Scope of delivery

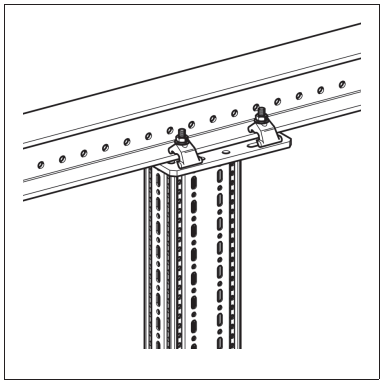
Type	Beam Clip [Qty.]	Hexagon bolt 8.8 [Qty.]	Washer [Qty.]	Hexagon nut [Qty.]
Set P2 S	4 x P2	4 x M12 x 80	8 x 12/40	4 x M12
Set P3 S	4 x P3	4 x M16 x 100	8 x 16/125	4 x M16
Set P2/2 S	2 x P2	2 x M12 x 80	4 x 12/40	2 x M12

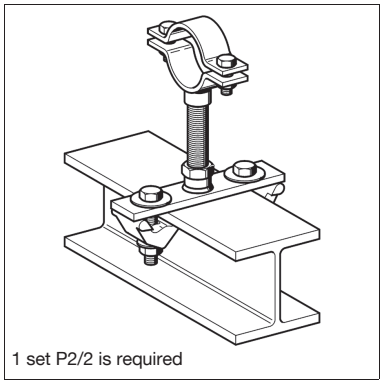
Installation
- The narrow ends of the Beam Clips must be fixed to the beam flange.
- Max. perm. torque of all M12 bolts: 85 Nm (Set P2 S)
- Max. perm. torque of all M16 bolts: 150 Nm (Set P3 S)
- Once fully tightened, the hexagon bolts must not be re-used!

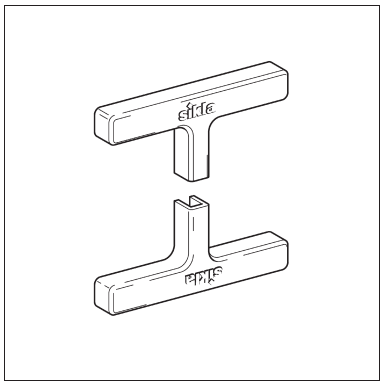
Technical Data
Material: Steel and cast iron, hcp

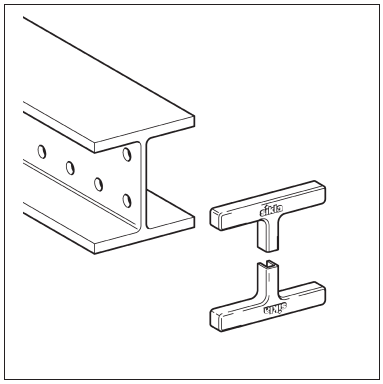
Type	W [kg]	Qty. [set]	Part number
Set P2 S	1.6	1	**168494**
Set P3 S	2.0	1	**179147**
Set P2/2 S	0.6	1	**183800**

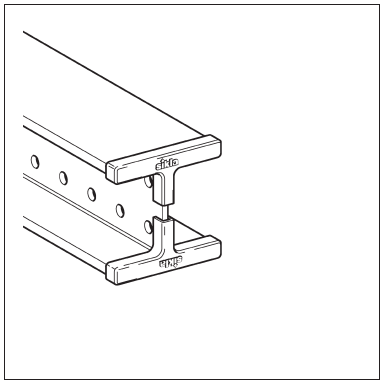

1 set is required




1 set P2/2 is required







End Cap ADK 100

Application
Suitable as end cap for STF 100 Beams, Beam Brackets, Beam Angles and other elements based on the Simotec Beam STF 100 or any HEA 100 shape steel beam. The signal colour is helpful in accident prevention.

Scope of delivery
Loose, two End Caps are necessary for each beam end.

Technical Data
Material: HDPE (for temperature range -20° to + 80°C), yellow

Type	W [kg]	Quantity [pack]	Part number
ADK 100	0.02	50	**190433**

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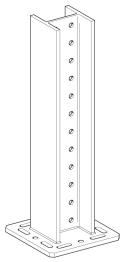
Beam Bracket TKO 120



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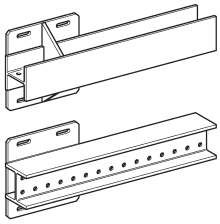
Joining Beam Bracket QKO 120



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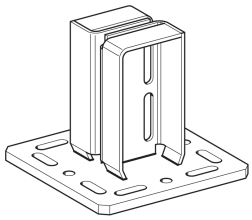
End Support STA 120



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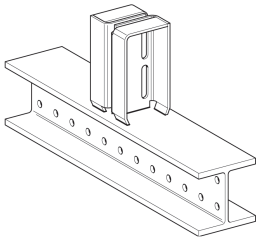
T-Adapter TA 120



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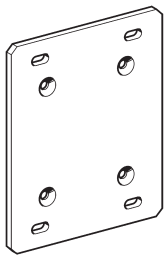
Joining Plate AP



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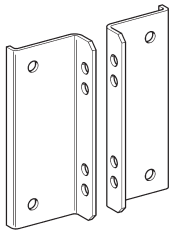
Bracket Plates FV 100/120



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Assembly Set PS

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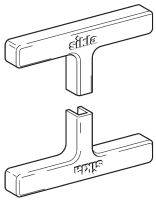
End Cap ADK 120



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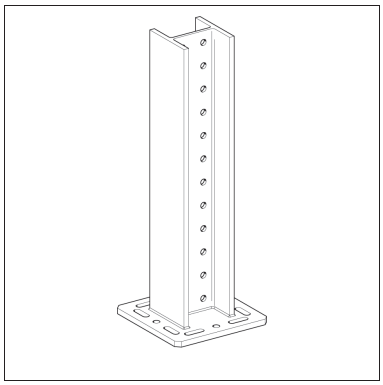

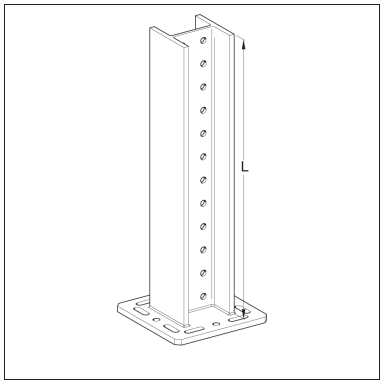

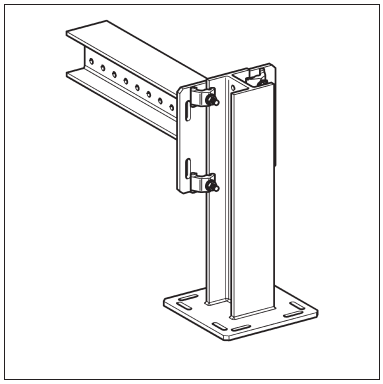

Beam Bracket TKO 120

Application
Element for mounting to floors, ceilings or walls, or for assembling crossbars. Types TKO 120 x 1500, 2000 and 3000 are not suitable for cantilever arrangements.

Installation
Depending on the situation, different options are recommended:
a) Fixation to building structure using 4 heavy duty anchors M12.
b) Frictional connection to steel beams (flange width 80 - 120 mm) with Assembly Set P2.
c) Interlocking connection to further Beam Brackets by means of Bracket Plates FV100/120.

The Ø 13 mm holes following a 50 mm grid allow the combination with other products using M12 bolts.

Technical Data

Dimensions of base plate [mm]	Slots in base plate for	Ø of punched holes [mm]	Grid of holes [mm]
220 x 220 x 12	M12	13	50

Configuration: Base plate welded to IPB120
Material: Steel, hot-dipped galvanised

Type	L [mm]	W [kg]	Quantity [pack]	Part number
TKO 120 x 350	350	13.3	1	**193150**
TKO 120 x 600	600	19.9	1	**193167**
TKO 120 x 800	800	25.2	1	**193174**
TKO 120 x 1000	1000	30.5	1	**193181**
TKO 120 x 1500	1500	43.7	1	**193198**
TKO 120 x 2000	2000	56.9	1	**193204**
TKO 120 x 3000	3000	83.4	1	**193105**

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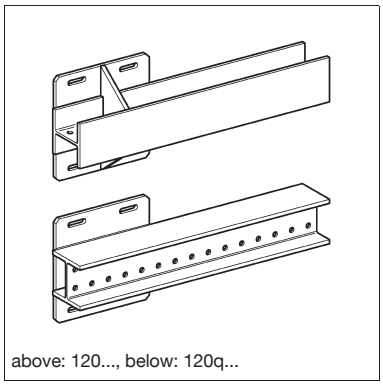
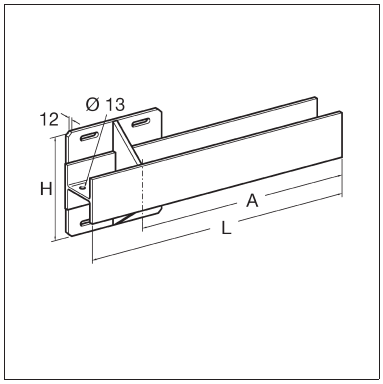
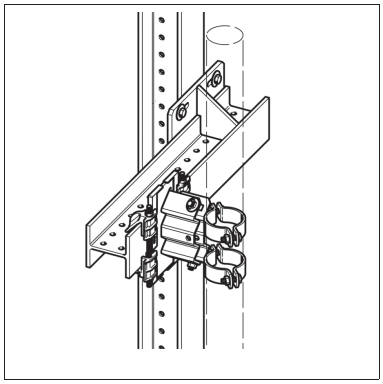
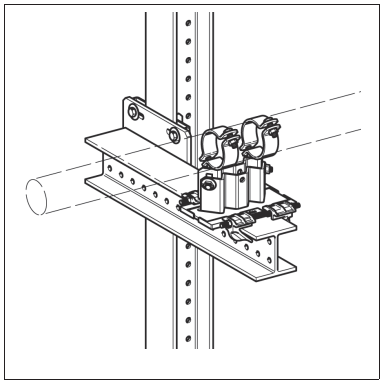


above: 120..., below: 120q...







Joining Beam Bracket QKO 120

Application

The Joining Beam Bracket enables the attachment of beams on concrete or at other steel girders. The connection of further STF Beam elements is made by Beam Connectors.

Installation

Depending on the situation, different options are recommended:

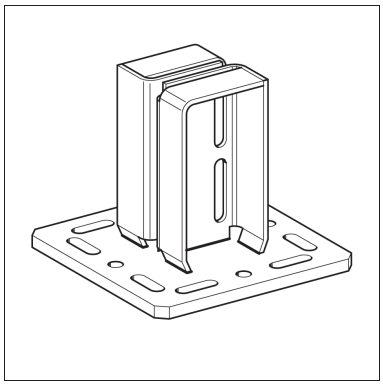
a) Fixation to concrete by means of 4 heavy duty anchors M12 or M16.
b) Frictional connection to steel beams with Assembly Set P2 (for flange width 80 - 120 mm)
c) Interlocking connection to TKO 100 or 120 by means of Bracket Plates FV 100/120.

Technical Data

Type	Dimensions of base plate H x H [mm]	Length of beam section A / L [mm]	Slots in base plate for
QKO 120 and QKO 120q x 600	220 x 220	600/700	M12
QKO 120 and QKO 120q x 1000	220 x 220	1000/1100	M12

Configuration: Base plate and support flange welded to an IPB 120 beam section
Material: Steel, hot-dipped galvanised

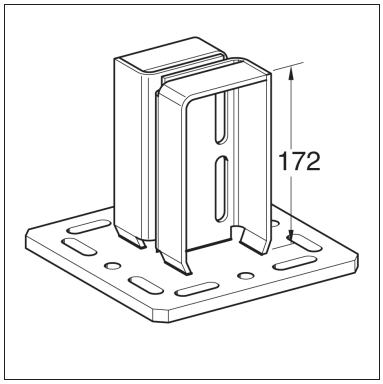
Type	W [kg]	Quantity [pack]	Part number
QKO 120 x 600	23.2	1	**193228**
QKO 120 x 1000	33.7	1	**193235**
QKO 120q x 600	22.4	1	**193242**
QKO 120q x 1000	33.6	1	**193259**



End Support STA 120

Application
In combination with Beam Bracket TKO 120, the End Support enables the construction of crossbars, as well as further conjuctions between building structure and steel construction. By means of oblong holes a simple compensation of structural deviations is possible.

Scope of delivery
End Support STA 120
Accessories:
4 Hexagon bolts M12 x 40
8 Washers

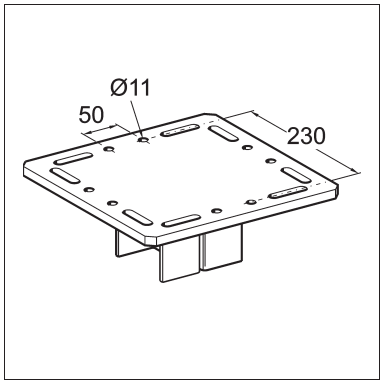


Technical Data

Thickness of base plate [mm]	Slot in base for
220 x 220 x 12	M12

Material:
STA 120: Steel, hot-dipped galvanised
Bolts: Steel, class 8.8, hot-dipped galvanised
Nuts: Steel, class 8, hot-dipped galvanised
Washers: Steel, hot-dipped galvanised

Type	W [kg]	Quantity [pack]	Part number
STA 120	6.8	1	**193211**



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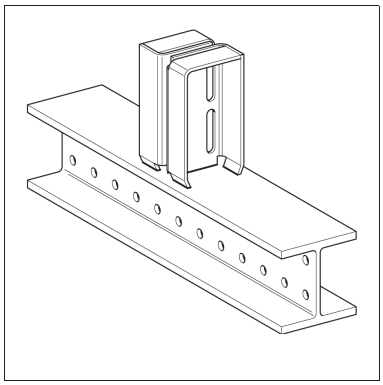
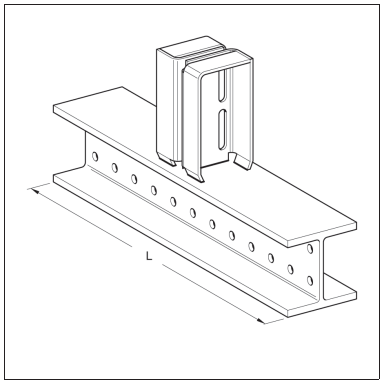


T-Adapter TA 120

Application
In combination with Beam Bracket TKO 120, the T-Adapter permits different T-structures on the floor or hanging T-structures without need of further accessories. Oblong holes permit a simple compensation on structural situations.

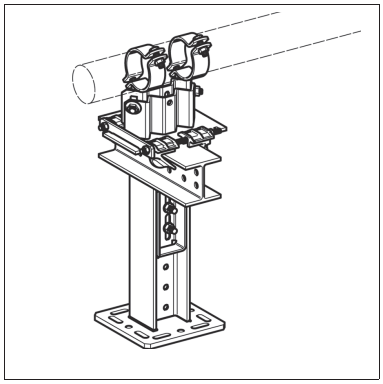
Scope of delivery
T-Adapter TA 120
Accessories:
4 Hexagon bolts M12 x 40
4 Hexagon nuts M12
8 Washers

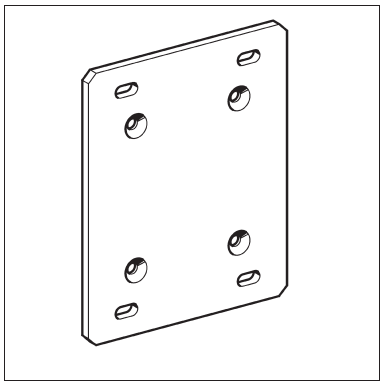


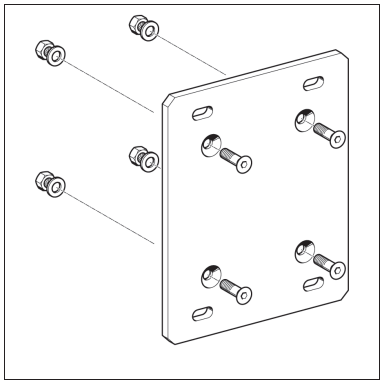
Technical Data

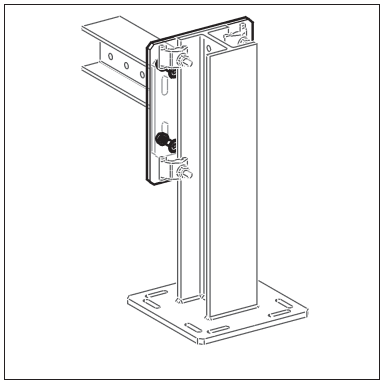
Configuration:	Beam section 120 welded to beam holder
Material:	
TA 120:	Steel, hot-dipped galvanised
Bolts:	Steel, class 8.8, hot-dipped galvanised
Nuts:	Steel, class 8, hot-dipped galvanised
Washers:	Steel, hot-dipped galvanised

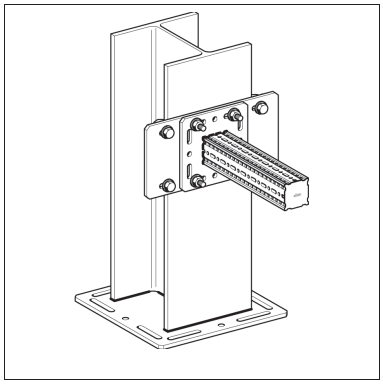
Type	L [mm]	W [kg]	Quantity [pack]	Part number
TA 120 x 200	200	8.1	1	**193112**
TA 120 x 400	400	14.0	1	**193129**
TA 120 x 600	600	19.0	1	**193136**











Joining Plate AP

Application
Interface element to enable the connection of standard endplates of Beam Brackets TKO F80 or F100, TKO 100 or 120 to primary steel with flange width >120 mm. Alternatively this product may be used to achieve a greater distance between wall anchor positions when required by the anchor calculation's result.

Scope of delivery
Joining Plate AP
4 Countersink Screws M12 x 40
4 Hexagon Nuts M12
4 Washers

Installation
Connect the Joining Plate AP to the Beam Bracket TKO's end plate by using the accessories above. Then continue with either heavy-duty anchors or Assembly Set P/Beam Clips as required by the building structure.

Technical Data

Type	Dimension of Base Plate L x B [mm]	Perforation for	Connection to flange width [mm]
AP 121/160	320 x 260 x 12	M12	121 - 160
AP 161/200	320 x 310 x 12	M16	161 - 200
AP 201/300	420 x 220 x 12	M16	201 - 300
AP 301/310	440 x 220 x 12	M16	301 - 310

Material:
Joining Plate: Steel, hot-dipped galvanised
Bolts: Steel DIN 7991, class 8.8, Dacromet/delta seal
Nuts: Steel, class 8, hot-dipped galvanised
Washers: Steel, hot-dipped galvanised

Type	W [kg]	Quantity [pack]	Part number
AP 121/160	7.9	1	**183953**
AP 161/200	9.3	1	**183962**
AP 201/300	8.5	1	**183980**
AP 301/310	9.8	1	**113129**

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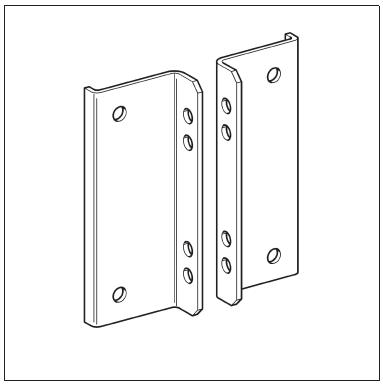
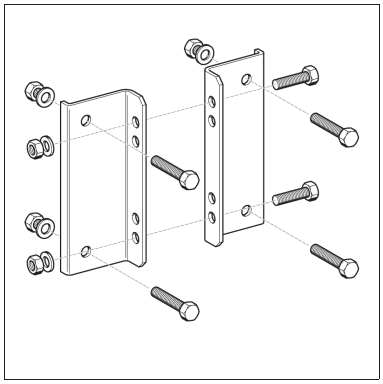


Bracket Plates FV 100/120

Application
For safe interlocking connection of a Beam Bracket or an End Support STA to other Beam Brackets TKO (adjustment as per grid with 25 or 50 mm).

Scope of delivery
Two identical plates.
Accessories:
2 Hexagon Bolts M12 x 35
4 Hexagon Bolts M12 x 45
6 Hexagon Nuts M12
6 Washers

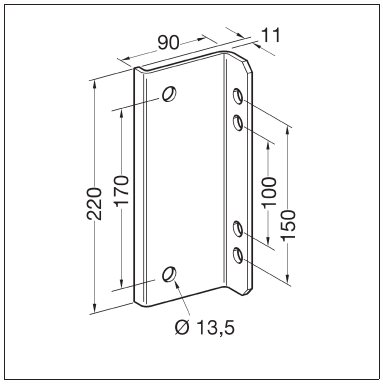


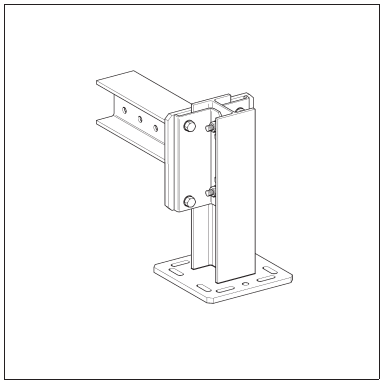
Installation
Mount Bracket Plates to Beam Bracket TKO by using 2 Hexagon Bolts M12 x 35. Then attach requested Beam Bracket TKO or End Support STA by using 4 Hexagon Bolts M12 x 45.

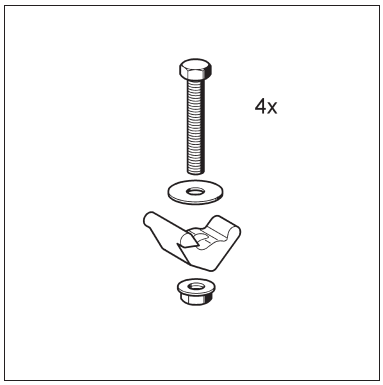
Technical Data

Material:	
Bracket Plates:	Steel, hot-dipped galvanised
Bolts:	Steel, class 8.8, hot-dipped galvanised
Nuts:	Steel, class 8, hot-dipped galvanised
Washers:	Steel, hot-dipped galvanised

Type	W [kg]	Quantity [pack]	Part number
FV 100/120	2.5	1	**187616**







Assembly Set PS

Application
Element for connecting Beam Bracket TKO, Angled Beam Bracket SKO or End Support WBD to a beam section.

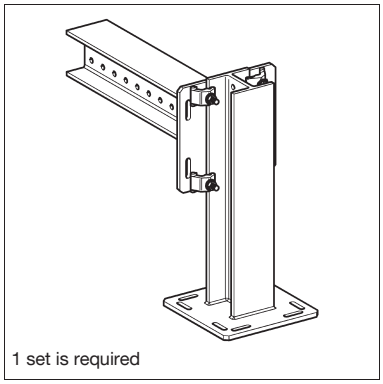
Scope of delivery

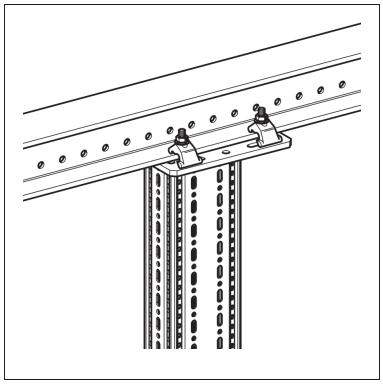
Type	Beam Clip [Qty.]	Hexagon bolt 8.8 [Qty.]	Washer [Qty.]	Hexagon nut [Qty.]
Set P2 S	4 x P2	4 x M12 x 80	8 x 12/40	4 x M12
Set P3 S	4 x P3	4 x M16 x 100	8 x 16/125	4 x M16
Set P2/2 S	2 x P2	2 x M12 x 80	4 x 12/40	2 x M12

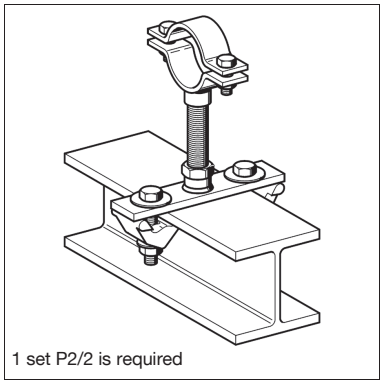
Installation
- The narrow ends of the Beam Clips must be fixed to the beam flange.
- Max. perm. torque of all M12 bolts: 85 Nm (Set P2 S)
- Max. perm. torque of all M16 bolts: 150 Nm (Set P3 S)
- Once fully tightened, the hexagon bolts must not be re-used!

Technical Data
Material: Steel and cast iron, hcp

Type	W [kg]	Qty. [set]	Part number
Set P2 S	1.6	1	**168494**
Set P3 S	2.0	1	**179147**
Set P2/2 S	0.6	1	**183800**


1 set is required




1 set P2/2 is required

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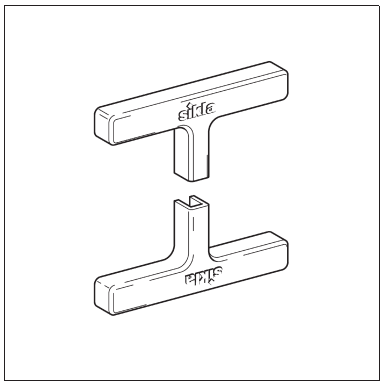


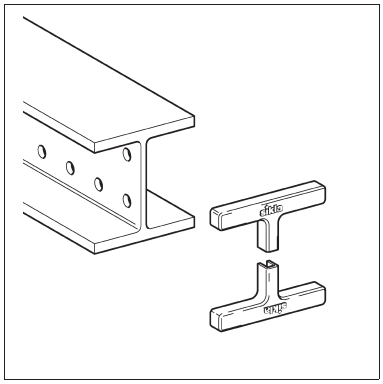
End Cap ADK 120

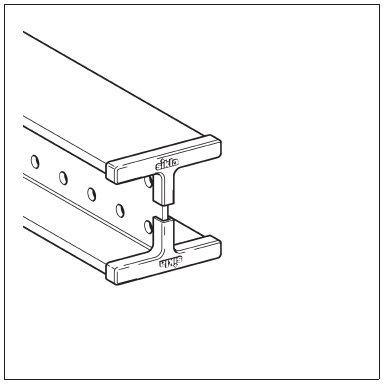
Application
Suitable as end cap for Beam Brackets 120, Joining Beam Brackets 120 and other elements based on steel beam HEB 120. The signal colour is helpful in accident prevention.

Installation
Loose, two End Caps are necessary for each beam end.
Can easily be fitted and keeps securely in place.

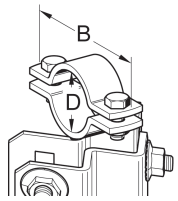
Technical Data
Material: HDPE (for temperature range -20 to +80° C), yellow

Type	W [kg]	Quantity [pack]	Part number
ADK 120	0.02	50	**173189**





Measurements



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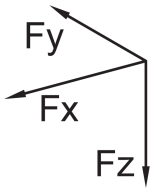
Working loads for Sliding Supports LA, LC and LD - HV



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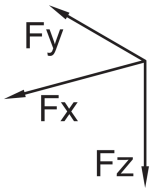
Working loads for Supports with insulation insert and



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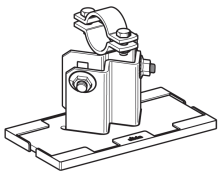
Pipe Shoe LA - HV



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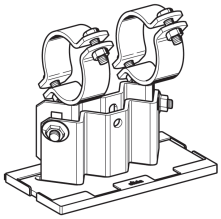
Pipe Shoe LC - HV



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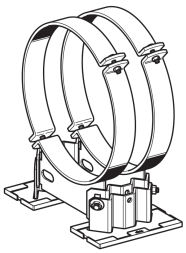
Pipe Shoe LD - HV



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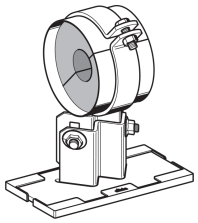
Pre-Insulated Pipe Shoe LK-HV



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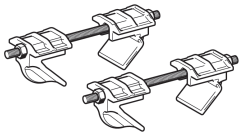
Guiding Set FS



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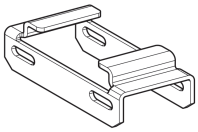
Guiding Bracket FW F



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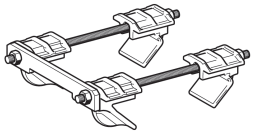
Fixed Point Set XS



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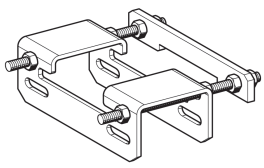
Fixed Point Bracket XW F



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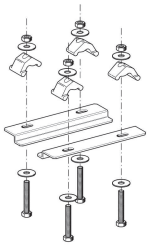
Guiding Set FS Z



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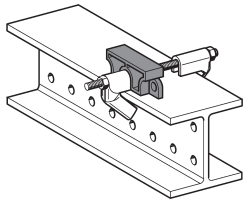
Sliding Set LU - H 40



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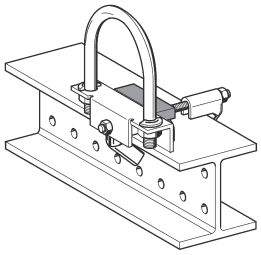
Guided Support FR - H 40



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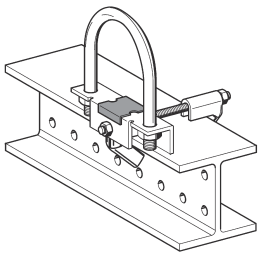
Fixed Point XR - H 40



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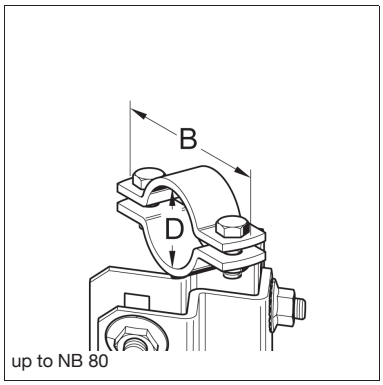
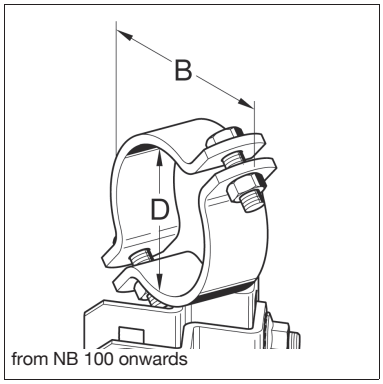
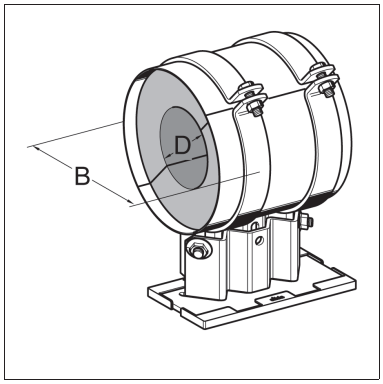


up to NB 80



from NB 100 onwards



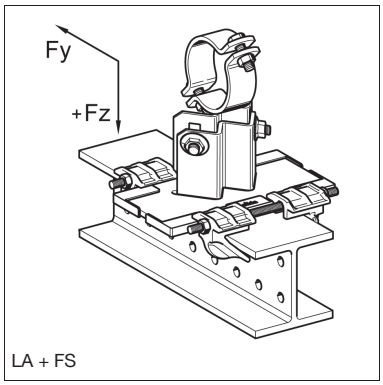
Measurements

Supports without insulation insert

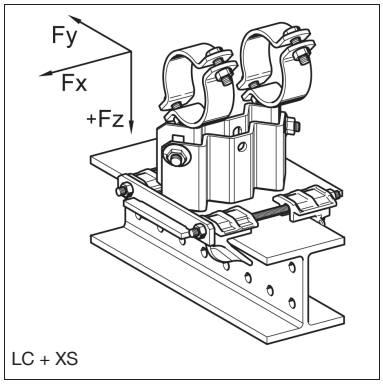
Pipe NB	Pipe D	Pipe Clamp B [mm]	Pipe Clamp Material [mm]	Hex. bolts
15	22	85	30 x 5	M10 x 40
20	27	92	30 x 5	M10 x 40
25	34	100	30 x 5	M10 x 40
32	43	111	30 x 5	M10 x 40
40	49	117	30 x 5	M10 x 40
50	61	139	40 x 5	M12 x 45
65	77	156	40 x 5	M12 x 45
80	89	168	40 x 5	M12 x 45
100	115	165	50 x 5	M12 x 50
125	140	183	50 x 5	M12 x 50
150	169	215	50 x 8	M12 x 55
200	220	252	50 x 8	M12 x 55
250	273	306	60 x 8	M16 x 65
300	324	347	60 x 8	M16 x 65
350	356	375	60 x 8	M16 x 65
400	407	423	70 x 8	M16 x 65
500	508	524	70 x 8	M16 x 65
600	610	626	70 x 8	M16 x 65

Supports with insulation insert

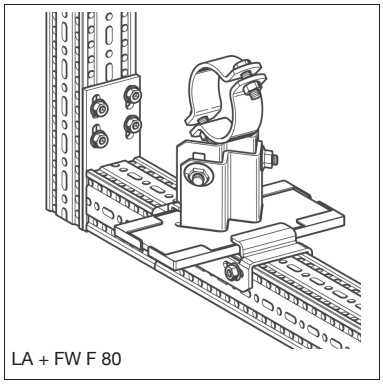
Pipe NB	Pipe D	Insulation Thickness [mm]	Insulation Length [mm]	Pipe Clamp B [mm]	Pipe Clamp Material [mm]	Hex. bolts
25	33.7	50	100	180	50 x 5	M12 x 50
32	42.4	50	100	187	50 x 5	M12 x 50
40	48.3	50	100	190	50 x 5	M12 x 50
50	60.3	50	100	199	50 x 5	M12 x 50
65	76.1	60	100	237	50 x 8	M12 x 55
80	88.9	60	100	245	50 x 8	M12 x 55
100	114.3	60	200	278	50 x 8	M16 x 60
125	139.7	60	200	295	50 x 8	M16 x 60
150	168.3	60	200	319	60 x 8	M16 x 65
200	219.1	60	200	363	60 x 8	M16 x 65
250	273.0	60	200	412	60 x 8	M16 x 65
300	323.9	80	200	503	70 x 8	M16 x 65

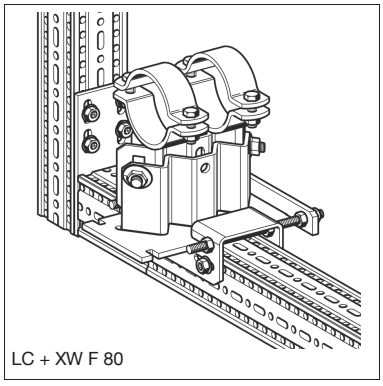


LA + FS



LC + XS


LA + FW F 80


LC + XW F 80

Working loads for Sliding Supports LA, LC and LD - HV

Basis for assessment EC 3, working loads for Supports in delivery status

Sliding Support LA - HV + Guiding Set FS resp. Fixed Point Set XS
Sliding Support LA - HV + Guiding Bracket FW F 80 resp. Fixed Point Bracket XW F 80

Height	DN	Fx [kN] X-Supports only	Fy [kN]	+ Fz [kN]		- Fz FS 80/120 [kN]	- Fz FW F 80 [kN]	- Fz XS 80/120 [kN]	- Fz XW F 80 [kN]
90	≤ 25	9.1	5.2	15.4		14	6.1	15.4	15.4
90	32	8.8	4.9	15.4		14	6.1	15.4	15.4
90	40	8.6	4.8	15.4		14	6.1	15.4	15.4
90	50	8.2	4.4	15.4		14	6.1	15.4	15.4
90	65	7.7	3.9	15.4		14	6.1	15.4	15.4
90	80	7.3	3.6	15.4		14	6.1	15.4	15.4
90	100	6.5	2.8	15.4		14	6.1	15.4	15.4
90	125	5.7	2.1	15.4		14	6.1	15.4	15.4
90	150	4.7	1.3	15.4		14	6.1	15.4	15.4
150	≤ 25	8.0	4.2	15.4		14	6.1	15.4	15.4
150	32	7.9	3.9	15.4		14	6.1	15.4	15.4
150	40	7.8	3.9	15.4		14	6.1	15.4	15.4
150	50	7.6	3.6	15.4		14	6.1	15.4	15.4
150	65	7.4	3.2	15.4		14	6.1	15.4	15.4
150	80	7.2	3.0	15.4		14	6.1	15.4	15.4
150	100	6.9	2.5	15.4		14	6.1	15.4	15.4
150	125	6.5	2.0	15.4		14	6.1	15.4	15.4
150	150	6.1	1.4	15.4		14	6.1	15.4	15.4
200	≤ 25	6.3	3.6	15.4		14	6.1	15.4	15.4
200	32	6.2	3.5	15.4		14	6.1	15.4	15.4
200	40	6.2	3.4	15.4		14	6.1	15.4	15.4
200	50	6.0	3.2	15.4		14	6.1	15.4	15.4
200	65	5.9	3.0	15.4		14	6.1	15.4	15.4
200	80	5.7	2.8	15.4		14	6.1	15.4	15.4
200	100	5.5	2.4	15.4		14	6.1	15.4	15.4
200	125	5.2	2.0	15.4		14	6.1	15.4	15.4
200	150	4.9	1.6	15.4		14	6.1	15.4	15.4

Sliding Support LC - HV + Guiding Set FS resp. Fixed Point Set XS
Sliding Support LC - HV + Guiding Bracket FW F 80 resp. Fixed Point Bracket XW F 80

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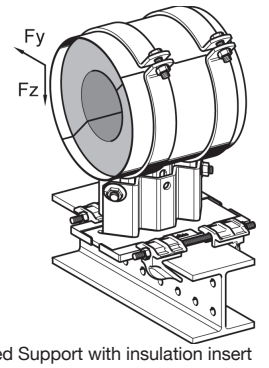
Height	DN	Fx [kN] X-Supports only	Fy [kN]	+ Fz [kN]		- Fz FS 80/120 [kN]	- Fz FW F 80 [kN]	- Fz XS 80/120 [kN]	- Fz XW F 80 [kN]
90	≤ 25	14.3	6.3	17.0		14	6.1	17	17
90	32	14.1	6.2	17.0		14	6.1	17	17
90	40	14.0	6.1	17.0		14	6.1	17	17
90	50	13.9	5.9	17.0		14	6.1	17	17
90	65	13.6	5.6	17.0		14	6.1	17	17
90	80	13.5	5.4	17.0		14	6.1	17	17
90	100	13.1	5.0	17.0		14	6.1	17	17
90	125	12.7	4.5	17.0		14	6.1	17	17
90	150	12.3	4.0	17.0		14	6.1	17	17
90	200	11.6	3.2	17.0		14	6.1	17	17
90	250	10.8	2.3	17.0		14	6.1	17	17
90	300	10.1	1.5	17.0		14	6.1	17	17
150	≤ 25	8.5	4.9	17.0		14	6.1	17	17
150	32	8.5	4.8	17.0		14	6.1	17	17
150	40	8.5	4.7	17.0		14	6.1	17	17
150	50	8.4	4.6	17.0		14	6.1	17	17
150	65	8.4	4.4	17.0		14	6.1	17	17
150	80	8.4	4.3	17.0		14	6.1	17	17
150	100	8.3	4.0	17.0		14	6.1	17	17
150	125	8.3	3.7	17.0		14	6.1	17	17
150	150	8.2	3.3	17.0		14	6.1	17	17
150	200	8.1	2.7	17.0		14	6.1	17	17
150	250	8.0	2.1	17.0		14	6.1	17	17
150	300	7.9	1.5	17.0		14	6.1	17	17
200	≤ 25	7.3	5.3	17.0		14	6.1	17	17
200	32	7.2	5.2	17.0		14	6.1	17	17
200	40	7.2	5.1	17.0		14	6.1	17	17
200	50	7.1	4.9	17.0		14	6.1	17	17
200	65	7.0	4.7	17.0		14	6.1	17	17
200	80	6.9	4.6	17.0		14	6.1	17	17
200	100	6.7	4.3	17.0		14	6.1	17	17
200	125	6.5	4.0	17.0		14	6.1	17	17
200	150	6.3	3.6	17.0		14	6.1	17	17
200	200	5.9	3.0	17.0		14	6.1	17	17
200	250	5.5	2.3	17.0		14	6.1	17	17
200	300	5.1	1.7	17.0		14	6.1	17	17

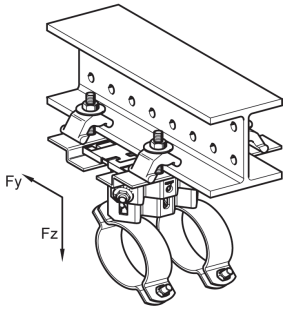
Sliding Support LD - HV + 2 x Guiding Set FS resp. 2 x Fixed Point Sets XS
Sliding Support LD - HV + 2 x Guiding Bracket FW F 80 resp. 2 x Fixed Point Bracket XW F 80

Height	DN	Fx [kN] X-Supports only	Fy [kN]	+ Fz [kN]		- Fz FS 80/120 [kN]	- Fz FW F 80 [kN]	- Fz XS 80/120 [kN]	- Fz XW F 80 [kN]
90	≤ 350	25.0	13.1	32.8		28	12.2	32.8	32.8
90	400	22.5	11.9	32.8		28	12.2	32.8	32.8
90	500	20.8	9.4	32.8		28	12.2	32.8	32.8
90	600	10.3	7.2	32.8		28	12.2	32.8	32.8
150	≤ 350	25.0	12.9	32.8		28	12.2	32.8	32.8
150	400	22.5	11.5	32.8		28	12.2	32.8	32.8
150	500	17.3	8.8	32.8		28	12.2	32.8	32.8
150	600	8.7	6.3	32.8		28	12.2	32.8	32.8
200	≤ 350	25.0	11.3	32.8		28	12.2	32.8	32.8
200	400	20.5	10.2	32.8		28	12.2	32.8	32.8
200	500	15.7	8.1	32.8		28	12.2	32.8	32.8
200	600	7.5	6.1	32.8		28	12.2	32.8	32.8

Further statical product datas are available on request.



Guided Support with insulation insert



Guided Support Suspension

Working loads for Supports with insulation insert and suspension

Basis of assessment EC 3, working loads for Supports in delivery status

Sliding Supports LK - HV + Guiding Set FS

Height	DN	Fy [kN]	± Fz [kN]
150	25	3.1	3.1
150	32	3.8	3.8
150	40	4.3	4.3
150	50	4.0	3.9
150	65	2.8	2.8
150	80	2.5	2.4
150	100	4.5	17.0
150	125	4.1	17.0
150	150	3.6	17.0
150	200	2.8	17.0
150	250	1.9	17.0
150	300	0.4	17.0

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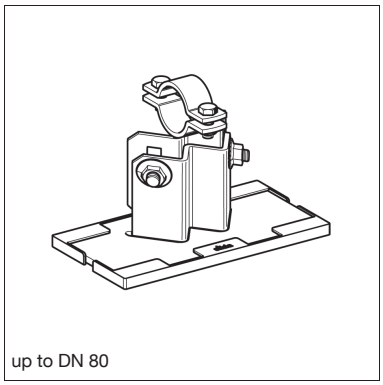
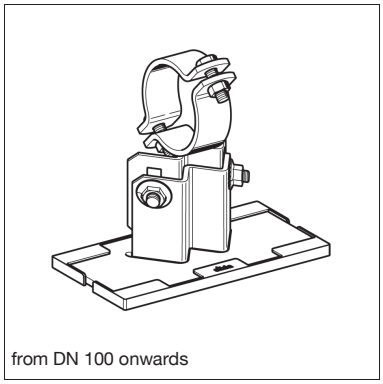
Sliding Supports LC - HV + Guiding Set FS Z

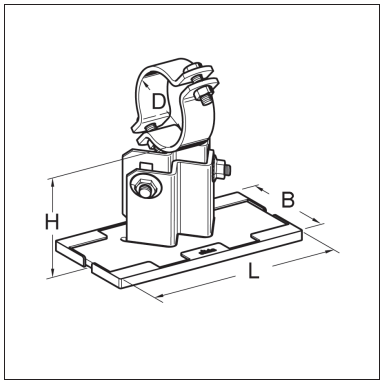
Height	DN	Fy [kN]	± Fz [kN]
90	25	5.0	10.0
90	32	4.8	10.0
90	40	4.7	10.0
90	50	4.5	10.0
90	65	4.2	10.0
90	80	4.0	10.0
90	100	3.6	10.0
90	125	3.3	10.0
90	150	3.1	10.0
90	200	2.7	10.0
90	250	2.3	10.0
90	300	1.5	10.0
150	25	3.2	10.0
150	32	3.1	10.0
150	40	3.1	10.0
150	50	3.0	10.0
150	65	2.8	10.0
150	80	2.8	10.0
150	100	2.6	10.0
150	125	2.4	10.0
150	150	2.3	10.0
150	200	2.0	10.0
150	250	1.7	10.0
150	300	1.3	10.0
200	25	2.5	10.0
200	32	2.4	10.0
200	40	2.4	10.0
200	50	2.3	10.0
200	65	2.2	10.0
200	80	2.2	10.0
200	100	2.1	10.0
200	125	2.0	10.0
200	150	1.9	10.0
200	200	1.7	10.0
200	250	1.5	10.0
200	300	1.1	10.0



up to DN 80



from DN 100 onwards



Pipe Shoe LA - HV

Application
Pipe Shoe - Single Clamp
For pipes on suitable surfaces. Height-adjustable in steps of 2.5mm. When resting on steel beams, a minimum flange width of 80 mm is recommended.

Scope of delivery
Upper and lower part are bolted together allowing height adjustment. The slide plate is fixed to the lower part.

Technical Data

Type	Height H as delivered [mm]	Height H Range [mm]
LA - HV 90	90	88.5 ... 113.5
LA - HV 150	150	116 ... 168.5
LA - HV 200	200	171 ... 223.5

Dimensions:
Metal plate: L = 250 mm x B = 100 mm
Slide plate incl.: L = 256 mm x B = 105 mm

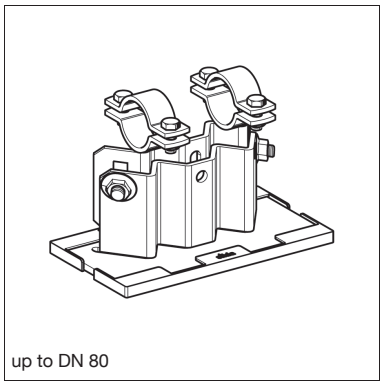
Material:
Metal plates: Steel, HCP
Bolts, Nuts: Steel, HCP
Slide Plate: Polyamide 6.0, glass fibre reinforced, black
Temperature range: -20 up to +130° C (at the slide plate)

Approvals

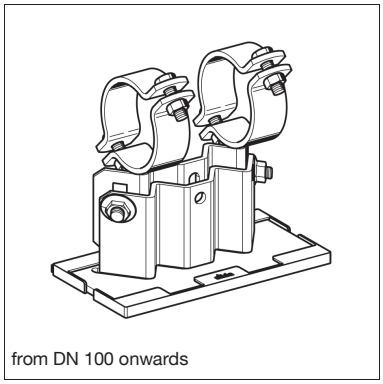
Note: HV 200 - minimum quantity and delivery time on request

03/2015

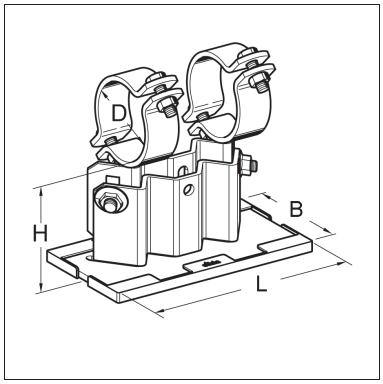
Type	D (pipe) [mm]	W [kg]	Quantity [pack]	Part number
LA - HV 90 DN 15	21.3	2.8	1	**112386**
LA - HV 90 DN 20	26.9	2.8	1	**112387**
LA - HV 90 DN 25	33.7	2.9	1	**110035**
LA - HV 90 DN 32	42.4	2.9	1	**110036**
LA - HV 90 DN 40	48.3	3.0	1	**110037**
LA - HV 90 DN 50	60.3	3.1	1	**110038**
LA - HV 90 DN 65	76.1	3.2	1	**110039**
LA - HV 90 DN 80	88.9	3.3	1	**110040**
LA - HV 90 DN 100	114.3	3.6	1	**110041**
LA - HV 90 DN 125	139.7	3.7	1	**110042**
LA - HV 90 DN 150	168.3	4.8	1	**110043**
LA - HV 150 DN 15	21.3	3.1	1	**112388**
LA - HV 150 DN 20	26.9	3.1	1	**112389**
LA - HV 150 DN 25	33.7	3.2	1	**110044**
LA - HV 150 DN 32	42.4	3.2	1	**110045**
LA - HV 150 DN 40	48.3	3.3	1	**110046**
LA - HV 150 DN 50	60.3	3.5	1	**110047**
LA - HV 150 DN 65	76.1	3.6	1	**110048**
LA - HV 150 DN 80	88.9	3.6	1	**110049**
LA - HV 150 DN 100	114.3	3.9	1	**110050**
LA - HV 150 DN 125	139.7	4.1	1	**110051**
LA - HV 150 DN 150	168.3	5.1	1	**110052**
LA - HV 200 DN 15	21.3	3.5	1	**112390**
LA - HV 200 DN 20	26.9	3.5	1	**112391**
LA - HV 200 DN 25	33.7	3.5	1	**110053**
LA - HV 200 DN 32	42.4	3.6	1	**110054**
LA - HV 200 DN 40	48.3	3.6	1	**110055**
LA - HV 200 DN 50	60.3	3.8	1	**110056**
LA - HV 200 DN 65	76.1	3.9	1	**110057**
LA - HV 200 DN 80	88.9	3.9	1	**110058**
LA - HV 200 DN 100	114.3	4.3	1	**110059**
LA - HV 200 DN 125	139.7	4.4	1	**110060**
LA - HV 200 DN 150	168.3	5.4	1	**110061**



up to DN 80



from DN 100 onwards



Pipe Shoe LC - HV

Application
Pipe Shoe - Double Clamp
For pipes on suitable surfaces. Height-adjustable in steps of 2.5 mm. When resting on steel beams, a minimum flange width of 80 mm is recommended.

Scope of delivery
Upper and lower part are bolted together allowing height adjustment. The slide plate is fixed to the lower part.

Technical Data

Type	Height H as delivered [mm]	Height H range [mm]
LC - HV 90	90	88.5 ... 113.5
LC - HV 150	150	116 ... 168.5
LC - HV 200	200	171 ... 223.5

Dimensions:
Metal plate: L = 250 mm x B = 100 mm
Slide plate incl.: L = 256 mm x B = 105 mm

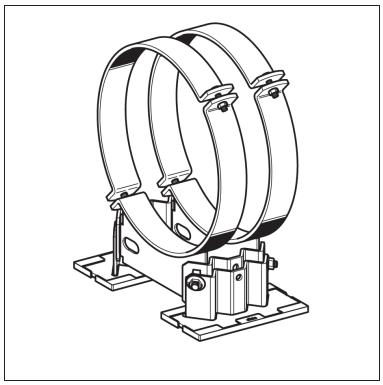
Material:
Metal parts: Steel, HCP
Bolts, Nuts: Steel, HCP
Slide plate: Polyamide 6.0, glass fibre reinforced, black
Temperature range: -20 up to +130° C (at the slide plate)

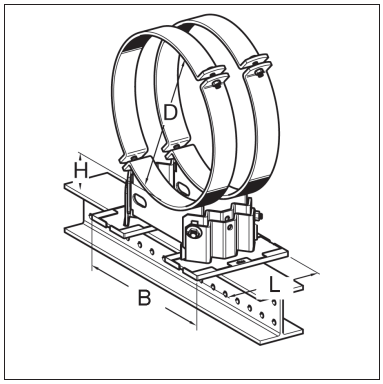
Approvals

Note: HV 200 - minimum quantity and delivery time on request

03/2015

Type	D (pipe) [mm]	W [kg]	Quantity [pack]	Part number
LC - HV 90 DN 15	21.3	3.5	1	**112392**
LC - HV 90 DN 20	26.9	3.5	1	**112393**
LC - HV 90 DN 25	33.7	3.6	1	**110062**
LC - HV 90 DN 32	42.4	3.7	1	**110063**
LC - HV 90 DN 40	48.3	3.7	1	**110064**
LC - HV 90 DN 50	60.3	4.1	1	**110065**
LC - HV 90 DN 65	76.1	4.3	1	**110066**
LC - HV 90 DN 80	88.9	4.4	1	**110067**
LC - HV 90 DN 100	114.3	5.1	1	**110068**
LC - HV 90 DN 125	139.7	5.4	1	**110069**
LC - HV 90 DN 150	168.3	7.4	1	**110070**
LC - HV 90 DN 200	219.1	8.3	1	**110071**
LC - HV 90 DN 250	273.0	11.1	1	**110072**
LC - HV 90 DN 300	323.9	12.0	1	**110073**
LC - HV 150 DN 15	21.3	4.0	1	**112394**
LC - HV 150 DN 20	26.9	4.0	1	**112395**
LC - HV 150 DN 25	33.7	4.0	1	**110074**
LC - HV 150 DN 32	42.4	4.1	1	**110075**
LC - HV 150 DN 40	48.3	4.2	1	**110076**
LC - HV 150 DN 50	60.3	4.6	1	**110077**
LC - HV 150 DN 65	76.1	4.8	1	**110078**
LC - HV 150 DN 80	88.9	4.9	1	**110079**
LC - HV 150 DN 100	114.3	5.5	1	**110080**
LC - HV 150 DN 125	139.7	5.8	1	**110081**
LC - HV 150 DN 150	168.3	7.8	1	**110082**
LC - HV 150 DN 200	219.1	8.8	1	**110083**
LC - HV 150 DN 250	273.0	11.6	1	**110084**
LC - HV 150 DN 300	323.9	12.6	1	**110085**
LC - HV 200 DN 15	21.3	4.5	1	**112396**
LC - HV 200 DN 20	26.9	4.5	1	**112397**
LC - HV 200 DN 25	33.7	4.6	1	**110086**
LC - HV 200 DN 32	42.4	4.9	1	**110087**
LC - HV 200 DN 40	48.3	4.9	1	**110088**
LC - HV 200 DN 50	60.3	5.2	1	**110089**
LC - HV 200 DN 65	76.1	5.3	1	**110090**
LC - HV 200 DN 80	88.9	5.4	1	**110091**
LC - HV 200 DN 100	114.3	6.1	1	**110092**
LC - HV 200 DN 125	139.7	6.2	1	**110093**
LC - HV 200 DN 150	168.3	8.4	1	**110094**
LC - HV 200 DN 200	219.1	9.5	1	**110095**
LC - HV 200 DN 250	273.0	12.0	1	**110096**
LC - HV 200 DN 300	323.9	13.0	1	**110097**





Pipe Shoe LD - HV

Application
Pipe Shoe - Dual Base
For pipes on suitable surfaces. Height-adjustable in steps of 2.5 mm. When resting on steel beams, a minimum flange width of 80 mm is recommended.

Scope of delivery
The upper part and the two lower parts are bolted together allowing height adjustment. The slide plates are fixed to the lower parts.

Installation
To guarantee that both sliding plates rest correctly, both webs must be adjusted to exactly the same height.

Technical Data

Type	Height H as delivered [mm]	Height H range [mm]	B [mm]
LD - HV 90	90	88.5 ... 113.5	320
LD - HV 150	150	116 ... 168.5	320
LD - HV 200	200	171 ... 223.5	320

Dimensions:
Metal plate: L = 250 mm
Slide plate incl.: L = 256 mm

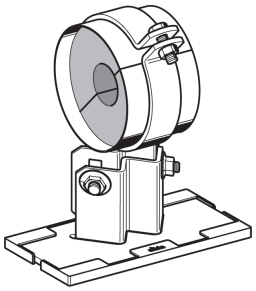
Material:
Metal parts: Steel, HCP
Bolts, Nuts: Steel, HCP
Slide plate: Polyamide 6.0, glass fibre reinforced, black
Temperature range: -20 up to +130° C (at the slide plates)

Approvals

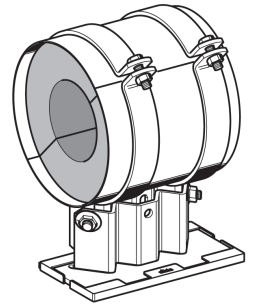
Note: HV 200 - minimum quantity and delivery time on request

03/2015

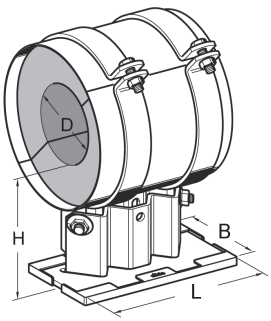
Type	D (pipe) [mm]	W [kg]	Quantity [pack]	Part number
LD - HV 90 DN 200	219.1	11.9	1	**112398**
LD - HV 90 DN 250	273.0	14.5	1	**112399**
LD - HV 90 DN 300	323.9	15.7	1	**112400**
LD - HV 90 DN 350	355.6	16.6	1	**110098**
LD - HV 90 DN 400	406.4	19.0	1	**110099**
LD - HV 90 DN 500	508.0	22.4	1	**110100**
LD - HV 90 DN 600	610.0	25.1	1	**110101**
LD - HV 150 DN 200	219.1	13.2	1	**112401**
LD - HV 150 DN 250	273.0	15.9	1	**112402**
LD - HV 150 DN 300	323.9	17.0	1	**112403**
LD - HV 150 DN 350	355.6	18.1	1	**110102**
LD - HV 150 DN 400	406.4	20.4	1	**110103**
LD - HV 150 DN 500	508.0	24.1	1	**110104**
LD - HV 150 DN 600	610.0	26.4	1	**110105**
LD - HV 200 DN 200	219.1	14.3	1	**112404**
LD - HV 200 DN 250	273.0	16.9	1	**112405**
LD - HV 200 DN 300	323.9	18.0	1	**112406**
LD - HV 200 DN 350	355.6	19.0	1	**110106**
LD - HV 200 DN 400	406.4	21.4	1	**110107**
LD - HV 200 DN 500	508.0	24.8	1	**110108**
LD - HV 200 DN 600	610.0	27.5	1	**110109**



up to DN 80



from DN 100 onwards



Pre-Insulated Pipe Shoe LK-HV

Application
Pipe Shoe with insulation
With PUR insulation insert for pipes on suitable surfaces. Height-adjustable in steps of 2.5 mm. When resting on steel beams, a minimum flange width of 80 mm is recommended.

Scope of delivery
Upper and lower part are bolted together allowing height adjustment. The slide plate is fixed to the lower part. Pipe Clamp, load spread metal sheet and insulation insert are pre-assembled.

Technical Data

NB	Form	Height H as delivered [mm]	Height H range [mm]
DN 25 - 50	Single clamp	150	137.5 ... 167.5
DN 65 - 80	Single clamp	150	147.5 ... 177.5
DN 100 - 250	Double clamp	150	150 ... 180
DN 300	Double clamp	150	150 ... 160

Dimensions:
Metal plate: L = 250 mm x B = 100 mm
Slide plate incl.: L = 256 mm x B = 105 mm

Material:
Metal parts: Steel, HCP
Grub screws, nuts: Steel, HCP
Slide plate: Polyamide 6.0, glass fibre reinforced, black
Insulation insert: PUR, 200 kg/m ^{3}
Load spread sheet Aluminium (on request: Steel, galvanised, stainless steel)
Temperature range: -30 up to +120° C

Approvals

TÜVRheinland® LGA tested Quality 102793

Type	D (pipe) [mm]	W [kg]	Quantity [pack]	Part number
LK - HV 150 DN 25	33.7	4.6	1	**110110**
LK - HV 150 DN 32	42.4	4.8	1	**110111**
LK - HV 150 DN 40	48.3	5.5	1	**110112**
LK - HV 150 DN 50	60.3	4.4	1	**110113**
LK - HV 150 DN 65	76.1	6.2	1	**110114**
LK - HV 150 DN 80	88.9	6.6	1	**110115**
LK - HV 150 DN 100	114.3	12.0	1	**110116**
LK - HV 150 DN 125	139.7	13.9	1	**110117**
LK - HV 150 DN 150	168.3	14.5	1	**110118**
LK - HV 150 DN 200	219.1	16.6	1	**110119**
LK - HV 150 DN 250	273.0	18.6	1	**110120**
LK - HV 150 DN 300	323.9	24.2	1	**110121**

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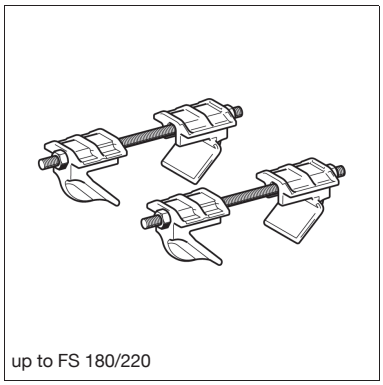
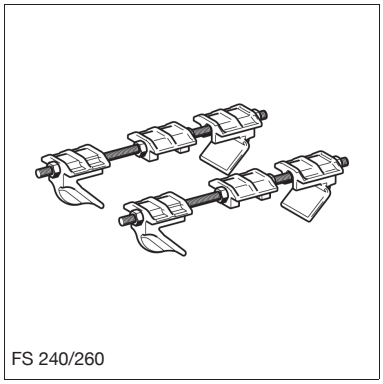
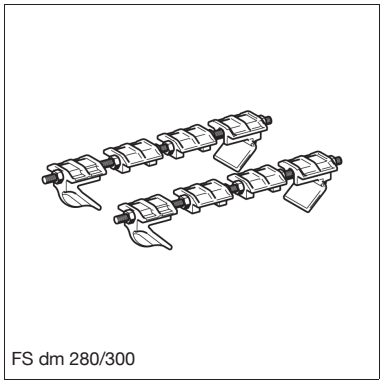


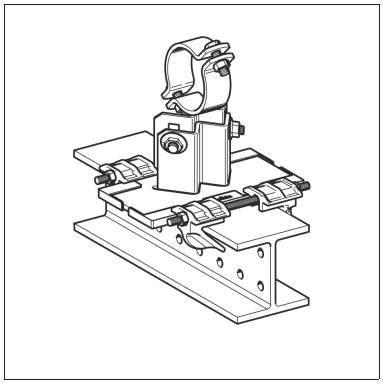
up to FS 180/220



FS 240/260



FS dm 280/300

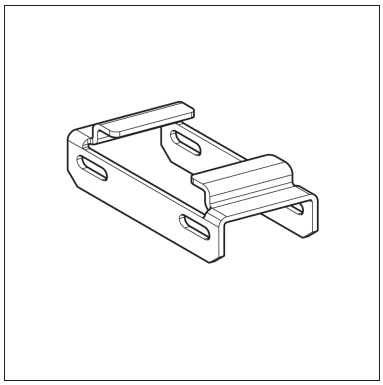


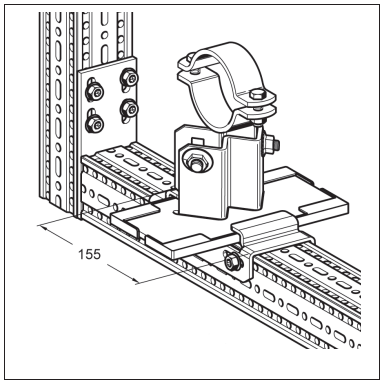
Guiding Set FS

Application
Element for completing Guided Pipe Shoes based on Sliding Pipe Shoes.
Max. beam flange width t ≤ 30 mm

Technical Data
Material:
Metal sheets: Steel, HCP
Grub screws, nuts: Steel, HCP
Clamping Hooks: Cast iron, HCP

Type	For flange width [mm]	W [kg]	Qty. [set]	Part number
FS 80/120	80 - 120	2.0	1	**110350**
FS 140/160	140 - 160	2.2	1	**110351**
FS 180/220	180 - 220	2.3	1	**110352**
FS 240/260	240 - 260	2.8	1	**110353**
FS dm 280/300	280 - 300	3.3	1	**112887**





Guiding Bracket FW F

Group: A705

Application

Element for modification of Sliding Pipe Shoes to Guided Pipe Shoes.

Installation

Connection to Beam Section F 80 or F 100 by means of 4 Self-Forming Screws FLS F.

Technical Data

Material: Steel, hot-dipped galvanised

Type	W [kg]	Quantity [pack]	Part number
FW F 80	0.6	1	**110349**
FW F 100	0.7	1	**113088**

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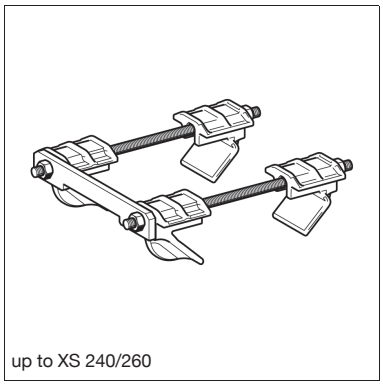
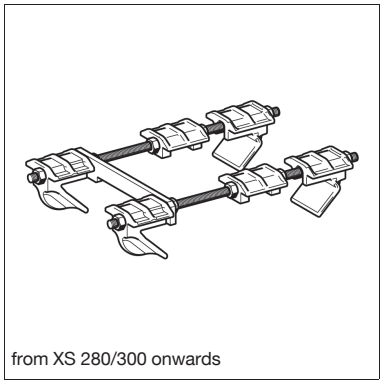
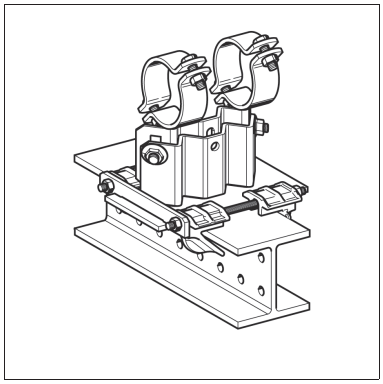


up to XS 240/260



from XS 280/300 onwards



Fixed Point Set XS

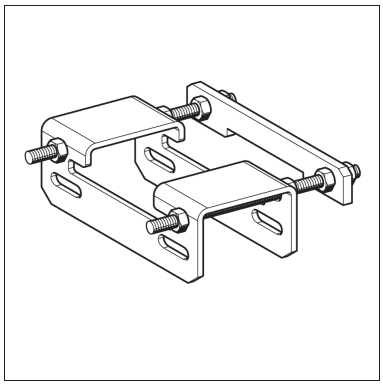
Application
Modification of Sliding Pipe Shoes to Fixed Point Pipe Shoes. The slide plate has to be removed.
Max. beam flange width t ≤ 30 mm

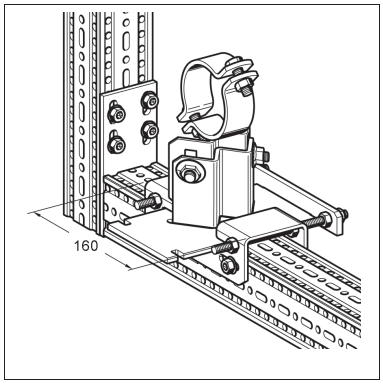
Technical Data
Material:

Metal parts:	Steel, HCP
Grub screws, nuts:	Steel, HCP
Clamping hooks:	Cast iron, HCP

Approvals

Type	For flange width [mm]	W [kg]	Qty. [set]	Part number
XS 80/120	80 - 120	2.3	1	**110357**
XS 140/160	140 - 160	2.4	1	**110358**
XS 180/220	180 - 220	2.5	1	**110359**
XS 240/260	240 - 260	2.6	1	**110360**
XS 280/300	280 - 300	3.2	1	**110361**





Fixed Point Bracket XW F

Application
Element for modification of Sliding Pipe Shoes to Fixed Point Pipe Shoes.

Installation
The slide plate of the Pipe Shoe is disassembled. Connection to the Beam Section F 80 or F 100 by means of 4 Self Forming Screws FLS F.

Technical Data
Material: Steel, HCP

Approvals

Type	W [kg]	Quantity [pack]	Part number
XW F 80	1.3	1	**110356**
XW F 100	1.6	1	**113087**

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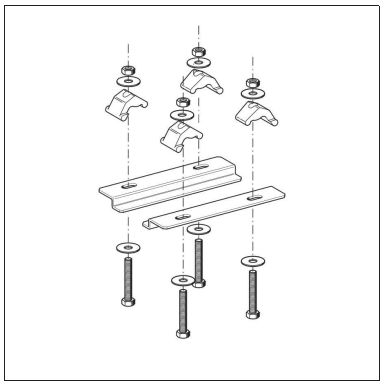
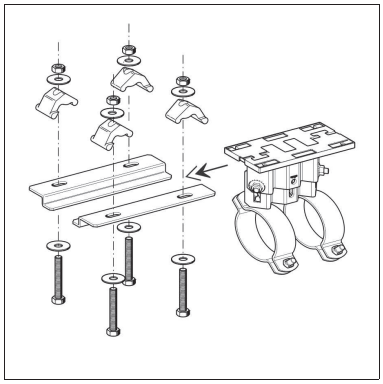
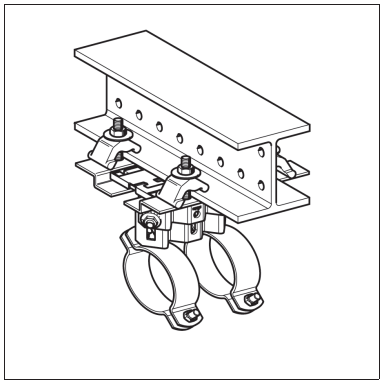






Guiding Set FS Z

Application
For suspension of a Guided Pipe Shoe from a Simotec Beam Section 100 resp. 120 or another steel girder with a flange width of 80 up to 120 mm.
Max. beam flange width t ≤ 33 mm

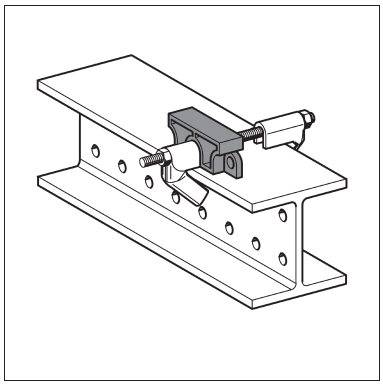
Scope of delivery
Two identical guide rails and Assembly Set P2.

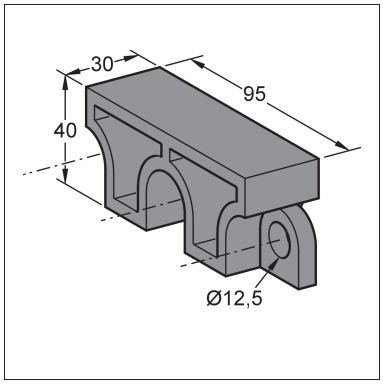
Installation
The guide rails are to be fixed with Assembly Set P2 below the beam with 2mm clearance to the support at the side. Torque for the M12 bolts of the Assembly Set = 85 Nm.

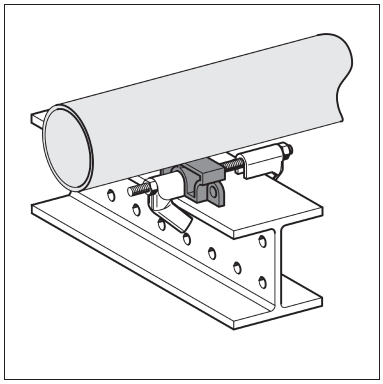
Technical Data
Material:
Metal parts: Steel, HCP
Grub screws, nuts: Steel, HCP

Approvals

Type	For flange width [mm]	W [kg]	Qty. [set]	Part number
FS Z 80/120	80 - 120	3.1	1	**110398**







Sliding Set LU - H 40

Application
Serves as a base for pipes, to be fixed on steel beams with minimum flange width of 80 mm. For pipe sizes up to NB 150, one PA block is sufficient. For pipes of NV 200 up to 300, two blocks are to be bolted together to provide a bigger rest (any number of PA blocks can be lined up).

Scope of delivery
NB 25 up to NB 150: 1 PA block and 1 Clamping Set
NB 200 up to NB 300: 2 PA blocks and 2 Clamping Sets
Accessories per Clamping Set:
2 Clamping Hooks C
1 Grub Screw M12 x 200
3 Nuts M12
When attaching to beams with flanges wider than 120 mm, longer bolts have to be used.

Installation
The pipe slides directly on the 40 mm high PA blocks. The lateral guide of the pipe has to be provided by other means. From DN 200 on, pre-assemble the PA blocks using a M12 x 30 hexagon bolt and a hexagon nut first.

Technical Data

NB	H [mm]	Clamping Sets [Pcs.]	PA blocks [Pcs.]
DN 25 - 150	40	1	1
DN 200 - 300	40	2	2

Material:
Clamping Hooks: Steel HCP
Grub Screws, Nuts: Steel, HCP
PA block: Polyamide 6.0, 30 % glass fibre reinforced, black
Temperature range: -20 to +130° C (at the PA block)

Type	For pipes of dia. [mm] from ... to	W [kg]	Quantity [pack]	Part number
LU - H 40 DN 25 - 150	33.7 - 168.3	0.7	1	**164241**
LU - H 40 DN 200 - 300	219.1 - 323.9	1.4	1	**164250**

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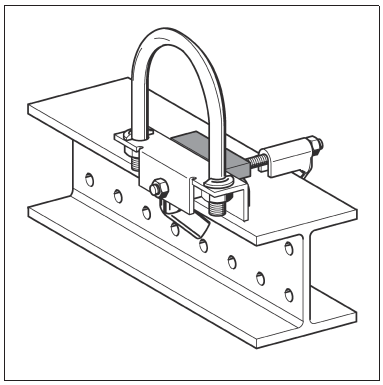
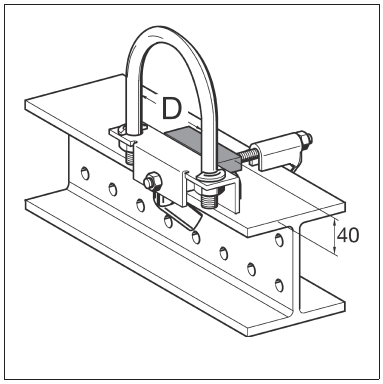


Guided Support FR - H 40

Application
Guided Support for attachment on steel beams with minimum flange width of 80 mm.

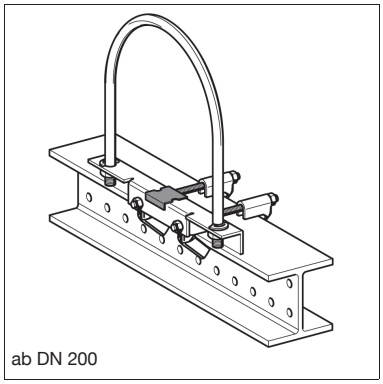
Scope of delivery
U-Bolt with welded-on semi-washers and 2 hexagon nuts, U-profile (bended metal) with PA block(s) resp. impressed PA base.
Accessories per Clamping Set:
2 Clamping Hooks C
1 Grub Screw M12 x 200
3 Nuts M12
For attachment to beams with flanges wider than 120 mm, longer bolts have to be used.



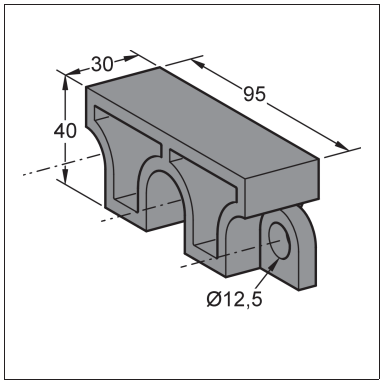
Installation
The pipe slides on the PA block resp. the PA base, which is slightly higher than the U-profile (approx. 1 mm).

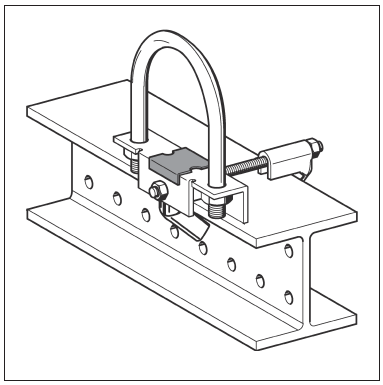
Technical Data

Material:	
U-Bolt:	DIN 3570, HCP
Metal parts:	Steel, HCP
Grub Screws, Nuts:	Steel, HCP
PA-block:	Polyamide 6.0, 30 % glass fibre reinforced, black
Temperature range:	-20 to +130° C (at the PA block)


ab DN 200

Type	D (pipe) [mm]	W [kg]	Quantity [pack]	Part number
FR - H 40 DN 25	33.7	1.1	1	**164269**
FR - H 40 DN 32	42.4	1.0	1	**167891**
FR - H 40 DN 40	48.3	1.1	1	**164278**
FR - H 40 DN 50	60.3	1.2	1	**164287**
FR - H 40 DN 65	76.1	1.3	1	**167907**
FR - H 40 DN 80	88.9	1.4	1	**164296**
FR - H 40 DN 100	114.3	1.8	1	**164302**
FR - H 40 DN 125	139.7	2.0	1	**164311**
FR - H 40 DN 150	168.3	2.2	1	**164320**
FR - H 40 DN 200	219.1	4.2	1	**164339**
FR - H 40 DN 250	273.0	4.8	1	**164348**
FR - H 40 DN 300	323.9	5.3	1	**164357**

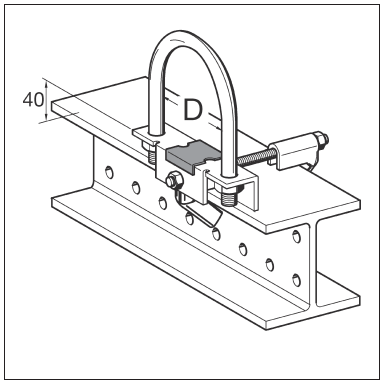




Fixed Point XR - H 40

Application
Fixed Point for attachment on steel beams with minimum flange width of 80 mm.

Scope of delivery
U-Bolt with nuts, U-profile, PA block and Clamping Set(s)
Accessories per Clamping Set:
2 Clamping Hooks C
1 Grub Screw M12 x 200
3 nuts M12
When attaching to beams with flanges wider than 120 mm, longer bolts have to be used.



Installation
The pipe weight presses the pipe into the PA block to such an extent that, in working condition, the lower edge of the pipe is at about 40 mm.

Technical Data

Type	H [mm]	Clamping Sets [Pcs.]
DN 25 - 150	40	1
DN 200 - 300	40	2

Material:

U-Bolt:	DIN 3570, HCP
Metal parts:	Steel, HCP
Grub Screws, Nuts:	Steel, HCP
PA block:	Polyamide 6.0, 30 % glass fibre reinforced, black
Temperature range:	-20 to +130° C (at the PA block)

Type	D (pipe) [mm]	W [kg]	Quantity [pack]	Part number
XR - H 40 DN 25	33.7	0.9	1	**164366**
XR - H 40 DN 32	42.4	1.0	1	**167916**
XR - H 40 DN 40	48.3	1.0	1	**164375**
XR - H 40 DN 50	60.3	1.1	1	**164384**
XR - H 40 DN 65	76.1	1.2	1	**167925**
XR - H 40 DN 80	88.9	1.3	1	**164393**
XR - H 40 DN 100	114.3	1.7	1	**164409**
XR - H 40 DN 125	139.7	1.9	1	**164418**
XR - H 40 DN 150	168.3	2.1	1	**164427**
XR - H 40 DN 200	219.1	3.4	1	**164436**
XR - H 40 DN 250	273.0	4.4	1	**164445**
XR - H 40 DN 300	323.9	5.0	1	**164454**

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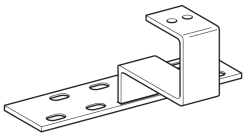
Roof Hook DH fix



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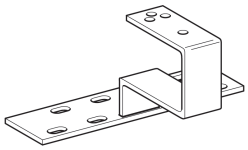
Roof Hook DH fix CRO



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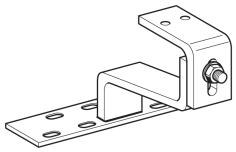
Roof Hook DH vario



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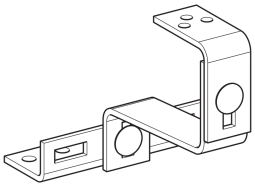
Roof Hook DH 2D vario



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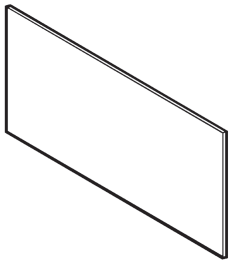
Levelling Plate NP DH



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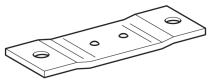
Adapter Plate AP-S



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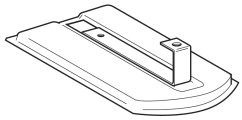
Roof Hook Set "Plain Tile" DH-BS



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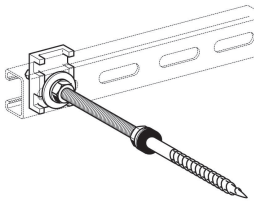
Bolt Screw Set ST-41



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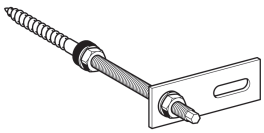
Bolt Screw Set ST-Vario



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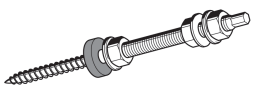
Bolt Screw Set STS



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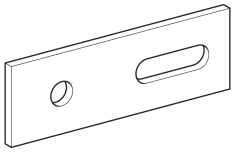
Bolt Screw Plate STP



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Torx Flat Head Coach Screw FLAH

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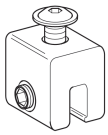
Aluminium Profiled Sheet Edge Clamp BFK



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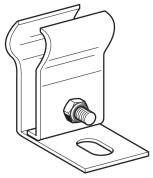
Aluminium Profiled Sheet Ridge Clamp BFK-R



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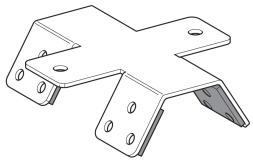
Trapezoidal Roof Support TBH 1



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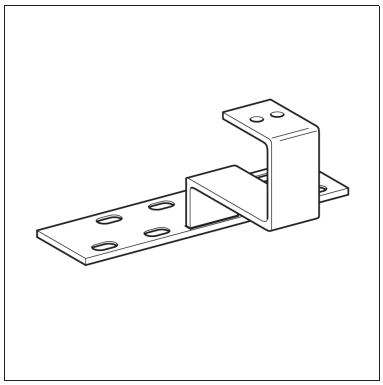
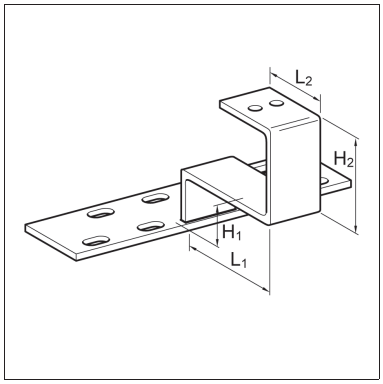
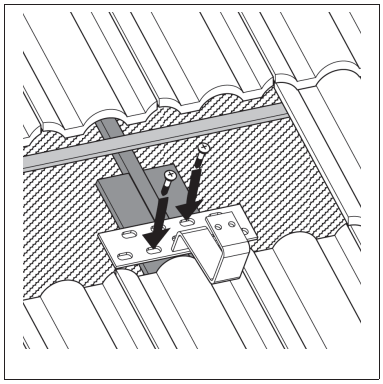
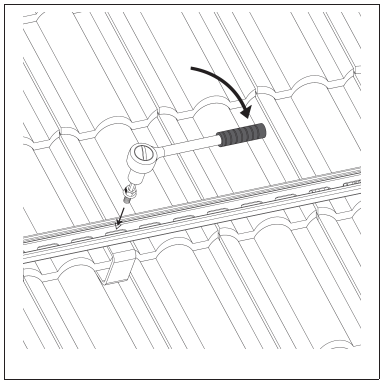








Roof Hook DH fix

Group: E401

Application

Roof Hook for standard tiles and roof batten thickness 24 resp. 30 mm. To provide a simple direct fixing of Channel 41 to the roof by means of one Self Forming Screw FLS.

Installation

1. Remove roof tiles.
2. Position the hook where the trough of the tile was located. Position the base plate of the Roof Hook in full contact with the rafter. If needed auxiliary battens should be used for roof fixing.
3. Fix the Roof Hook with two Torx Flat Head Coach Screws FLAH 10 x 100.
4. Clear removed tiles from the respective area and put them back to their original position.
5. Fix the Channel onto the Roof Hook through the slotted rear face of the profile with one Self Forming Screw. For roof structures > 50 mm the Roof Hook could be shimed.

Roof Hooks for special tiles /profiles on request. In order to preserve the balanced loading of the roof we recommend this application to all rafters.

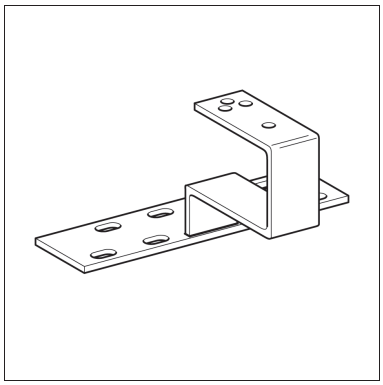
Technical Data

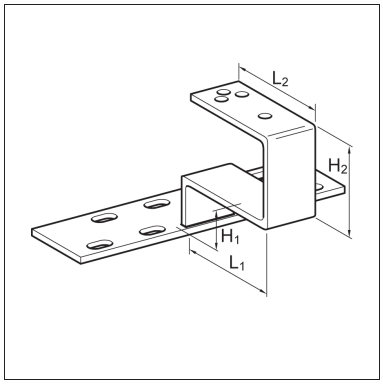
Max. perm. loads:

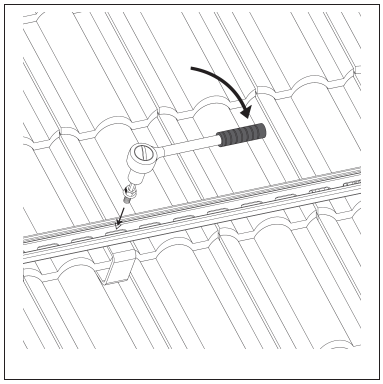
Type	F_z [kN]	Fq [kN]
DH fix-40/8	2.5	1.25
DH fix-45/5	1.2	0.75
DH fix-45/8	2.5	1.25
DH fix-50/8	2.5	1.25

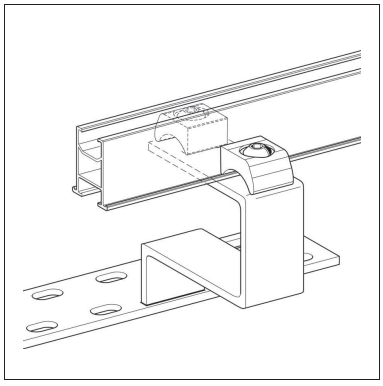
Material: Steel, HCP or HDG

Type	H_1 [mm]	H_2 [mm]	L_1 [mm]	L_2 [mm]	W [kg]	Quantity [pack]	Part number
DH fix-40/8	40	85	105	65	1.00	1	**110002**
DH fix-45/5	45	80	105	65	0.91	1	**194072**
DH fix-45/8	45	80	105	65	1.01	1	**196762**
DH fix-50/8	50	80	105	65	1.10	1	**111444**









Roof Hook DH fix CRO

Group: E401

Application

Roof Hook for standard tiles and roof batten thickness 24 resp. 30 mm. To provide a simple direct fixing of Channel 41 to the roof by means of one Self Forming Screw FLS or of Channel ALU 27/42 by means of Beam Clamps P0 ALU and Flange Screws SCR FLA TT.

Installation

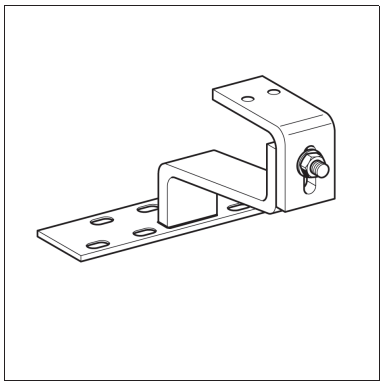
1. Remove roof tiles.
2. Position the hook where the trough of the tile was located. Position the base plate of the Roof Hook in full contact with the rafter. If needed auxiliary battens should be used for roof fixing.
3. Fix the Roof Hook with two Hexagon Wood Screws FLAH 10 x 100.
4. Clear removed tiles from the respective area and put them back to their original position.
5. Fix the Channel 41 onto the Roof Hook through the slotted rear face of the profile with one Self Forming Screw FLS. For connection with Channel ALU 27/42 tighten the Roof Hook by means of two Beam Clamps P0 ALU TT and two Flange Screws SCR FLA TT M10 x 25. For roof structures > 50 mm the Roof Hook could be shimed.

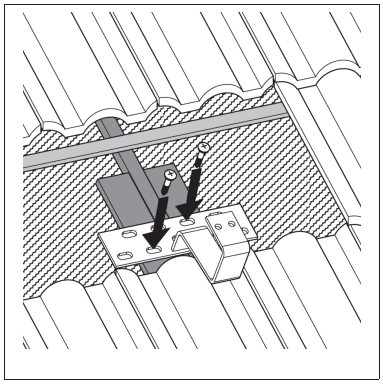
In order to preserve the balanced loading of the roof we recommend this application to all rafters.

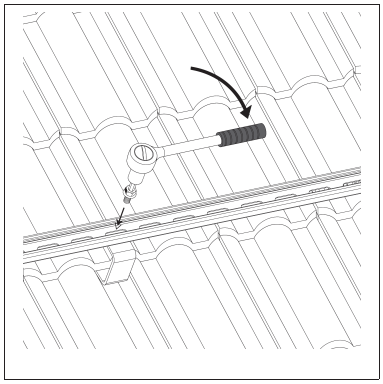
Technical Data

Max. perm. load:: Fz = 2,5 kN, Fq = 1,25 kN
Material: Steel, HCP

Type	H_1 [mm]	H_2 [mm]	L_1 [mm]	L_2 [mm]	W [kg]	Quantity [pack]	Part number
DH fix CRO-45/8	45	80	105	104	1.14	1	**112151**







Roof Hook DH vario

Group: E401

Application

Height-adjustable Roof Hook for roofs with variable rafter-distance. To provide a simple direct fixing of Channel 41 to the roof by means of one Self Forming Screw FLS. The height adjustment allows for an exact adjustment of uneven roof constructions. The large setting range allows the use of the Roof Hook even for roof tiles with deeper profile.

Installation

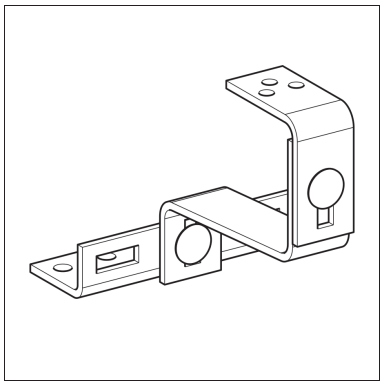
1. Remove roof tiles.
2. Position the hook where the trough of the tile was located. Position the base plate of the Roof Hook in full contact with the rafter. If needed auxiliary battens should be used for roof fixing.
3. Fix the Roof Hook with two Torx Flat Head Coach Screws FLAH 10 x 100.
4. Clear removed tiles from the respective area and put them back to their original position.
5. Fix the Channel 41 onto the Roof Hook through the slotted rear face of the profile with one Self Forming Screw FLS. For structures thicker than 45 mm, the Roof Hook could be shimed.

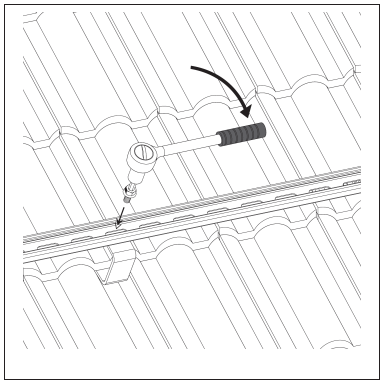
In order to preserve the balanced loading of the roof we recommend this application to all rafters.

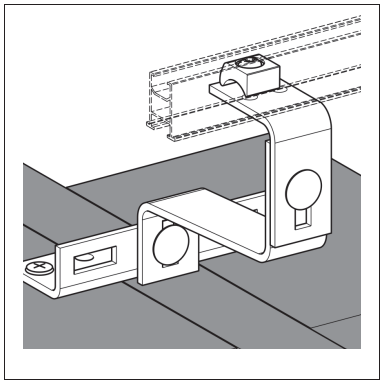
Technical Data

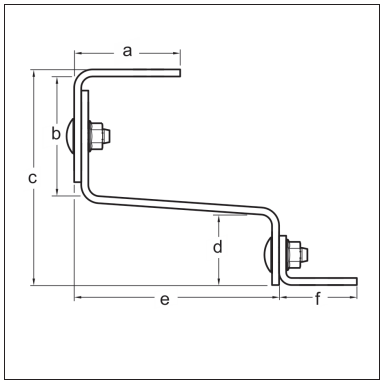
Base Plate:	220 x 60 x 5 mm
Material Hook:	40 x 8 mm
Stand-off distance:	from trough tile 85 - 105 mm
Max. perm. load:	Fz = 2.0 kN, Fq = 1.0 kN
Material:	Steel, HCP or HDG

Type	W [kg]	Quantity [pack]	Part number
DH 45 vario	1.23	1	**196779**









Roof Hook DH 2D vario

Group: E401

Application

Height-adjustable Roof Hook for roofs with variable rafter-distance. The height adjustment allows for an exact adjustment of uneven roof constructions. The large setting range allows the use of the Roof Hook even for roof tiles with deeper profile.
To provide a simple direct fixing of Channel MS 41 to the roof by means of one Self Forming Screw FLS or of Channel MS ALU 27/42 with one Beam Clamp P0 ALU and one Flange Screw SCR FLA M10 x 25 HCP.

Installation

1. Remove roof tiles.
2. Position the hook where the trough of the tile was located. Position the base plate of the Roof Hook in full contact with the rafter. If needed auxiliary battens should be used for roof fixing.
3. Fix the Roof Hook with two Torx Flat Head Coach Screws FLAH 10 x 100.
4. Clear removed tiles from the respective area and put them back to their original position.
5. Fix the Channel MS 41 onto the Roof Hook through the slotted rear face of the profile with one Self Forming Screw FLS. Alternative: Fasten Beam Clamp P0 ALU with one Flange Screw SCR FLA M10 x 25 HCP, apply Channel MS ALU 27/42, click it on and screw Flange Screw tight with max. 20 Nm.

In order to preserve the balanced loading of the roof we recommend this application to all rafters.

Technical Data

Type	Suitable for Sikla Channel	a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	f [mm]
DH 2D vario	MS 41 HCP MS 41/31 ALU MS 27/42 ALU	75	73-98	130-164	145-154	115	56

Base Plate: 140 x 56 x 5 mm
Material Hook: 40 x 5 mm
Material: Steel,
Surface: HCP

Type	W [kg]	Quantity [pack]	Part number
DH 2D vario	0.98	1	**113261**

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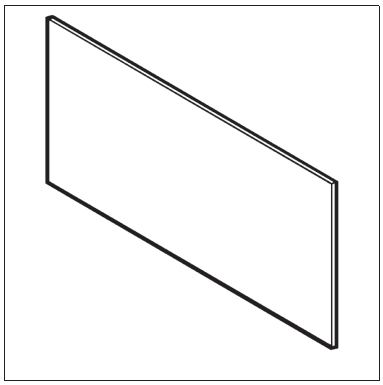


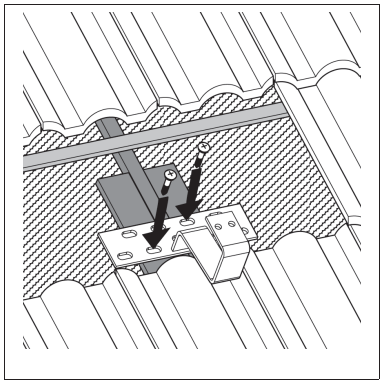
Levelling Plate NP DH

Group: E100

Application
For height adjustment to support the Roof Hooks on uneven roof constructions or varying brick heights.

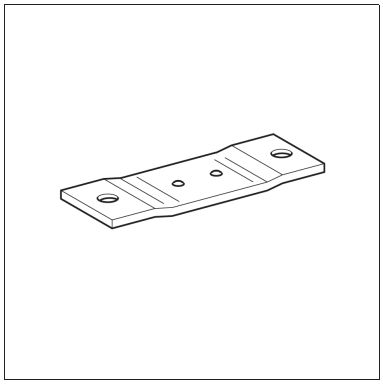
Scope of delivery
Set, each with 25 pieces à 5 mm and à 3 mm

Installation
Place the Levelling Plate under the Roof Hook and fix it with the Torx Flat Head Coach Screw FLAH.



Technical Data
Material: Wood

Type	Plate dimensions [mm]	W [kg]	Pack. [Set]	Part number
NP DH	100 x 60	0.66	1	**111462**



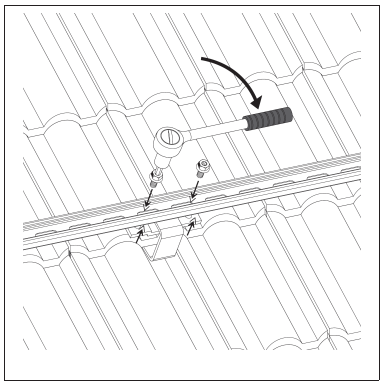
Adapter Plate AP-S

Group: E401

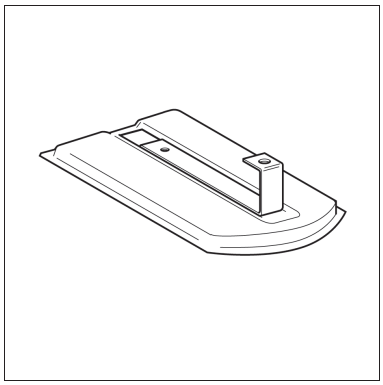
Application
Enables connection between Channel 41 and Roof Hook in case a direct connection is not possible due to lack of tolerance adjustment < 9 mm.

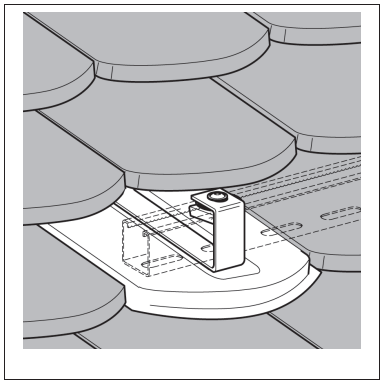
Installation
Place Adapter Plate under the Roof Hook and fix the Channel from the top with two Self-Forming Screws. The geometric design of the Adapter Plate creates a form-locked connection with the Roof Hook.

Technical Data
Material: Steel, HCP or HDG



Type	W [kg]	Quantity [pack]	Part number
AP-S	0.14	1	**194119**





Roof Hook Set "Plain Tile" DH-BS

Group: E401

Application

Roof Hook Set for direct replacement of Plain Tile type roof tile, to mount Channel 41. Fix Roof Hook Set with Torx Flat Head Coach Screw FLAH 8 x 80. The Channel of height ≤ 45mm needs to be fixed with a Speed Nut NT CC HCP and a Flange Screw SCR FLA M10 x 25.

Scope of delivery

Roof Hook Set comprises a steel tile and a rafter hook.

Installation

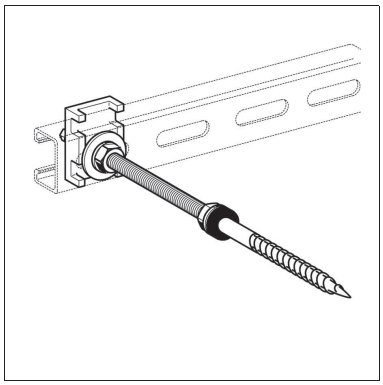
1. Remove roof tile and replace it with the Roof Hook Set 'Plain Tile'.
2. Screw the Roof Hook Set down at the junction point roof batten/rafter.
3. Click Speed Nut NT CC M10 HCP into the channel (such that it is installed in the body of the channel) and place it to the underside of the hook. Screw tight this pre-assembly with Flange Screw SCR FLA M10x25 so that the channel is secured against the underside of the hook.

In order to preserve the balanced loading of the roof we recommend an application to all rafters.

Technical Data

Max. perm. loads:	F_z and F_y = 1.0 kN
Material:	
Tile:	Steel 1.0350, electro-galvanised according to DIN EN 10346
Hook:	HCP or HDG

Type	W [kg]	Qty. [set]	Part number
DH-BS	0.52	1	**194089**



Bolt Screw Set ST-41

Group: E401

Application

For attachment of Channel 41 and Flex Frames to profiled insulated roof sheets, trapezoidal decking or sandwich panels with a timber batten sub-structure.

Scope of delivery

Two Bolt Screws incl. Sealing, Nuts, Spacers and Holding Bracket in polybag.

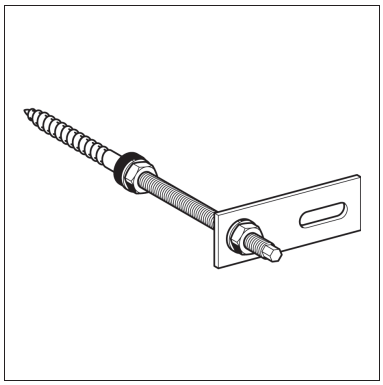
Installation

1. Drill a Ø 8.5 mm hole through the highest point of the roofing into the timber battens below. Use Channel as a drilling template.
2. Drill out a Ø13mm counter-bore hole through the roof material to the face of the batten.
3. Install the Bolt Screw such that the woodscrew thread is fully engaged to the timber in order to provide the maximum load capacity. The sealing disk should be compressed against the batten. Insert and fix the channel.

Technical Data

Max. perm. loads:	up to F_z = 3.0 kN Fq according to roof pitch and screw option
Material:	
Holding Bracket and Washer 12/40:	HCP or HDG
Bolt Screw, Nut and Spacer:	Stainless steel 304
Sealing:	EPDM

Type	W [kg]	Quantity [pack]	Part number
ST-41	0.71	1	**195130**



Bolt Screw Set ST-Vario

Group: E401

Application
For attachment of Channel 41 to profiled insulated roof sheets, trapezoïdal decking or sandwich panels with a timber batten sub-structure.

Scope of delivery
Two Bolt Screws incl. Sealing and Nuts, Spacers and Vario Plate in polybag.

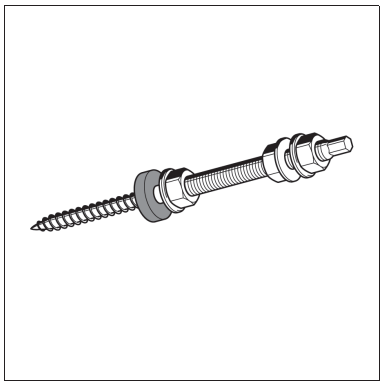
Installation

1. Drill a Ø 8.5 mm hole through the highest point of the roofing into the timber battens below.
2. Drill out a Ø 13mm counter-bore hole through the roof material to the face of the batten.
3. Install the Bolt Screw such that the woodscrew thread is fully engaged to the timber in order to provide the maximum load capacity. Compress the sealing disk against the batten and adjust Vario Plate.
4. Pre-assemble the enclosed Channel Nuts and Bolts. Insert the channel from the bottom up and tighten it. For higher sub-structures, the Channel may be fixed on top of the Vario Plate. Screw connection then is done on the back of the Channel.

Technical Data

max. perm. loads:	up to F_z = 1.0 kN Fq according to roof pitch and screw option
Material:	
Vario Plate:	HCP or HDP
Bolt Screw, Nut and Spacer:	Stainless steel 304 (A2)
Sealing:	EPDM

Type	W [kg]	Quantity [pack]	Part number
ST-Vario	0.76	1	**192557**



Bolt Screw Set STS

Group: E401

Application
For attachment of Channels and Flex Frames to profiled insulated roof sheets, trapezoidal decking or sandwich panels with a timber batten sub-structure.

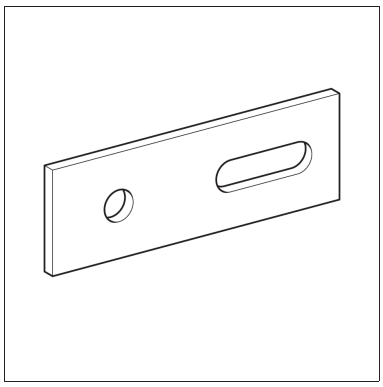
Scope of delivery
Bolt Screw incl. Sealing, Nuts and Spacers.

Installation
1. Drill a Ø 6.5 mm hole through the highest point of the roofing into the timber battens below. Use Channel as a drilling template
2. Drill out a Ø13mm counter-bore hole through the roof material to the face of the batten.
3. Install the Bolt Screw such that the woodscrew thread is fully engaged to the timber in order to provide the maximum load capacity. The sealing disk should be compressed against the batten. Insert Channel or Bolt Screw Plate STP and tighten the self-locking flange nut (wrench size 15).

Technical Data

Max. perm. loads:	up to Fz = 1,8 kN Fq according to roof pitch and screw option
Material:	
Bolt Screw, Nut and Spacer:	Stainless steel 304
Sealing:	EPDM

Type	W [kg]	Quantity [pack]	Part number
M10 x 100	0.10	100	**111450**
M10 x 150	0.11	100	**111451**
M10 x 200	0.14	50	**111452**



Bolt Screw Plate STP

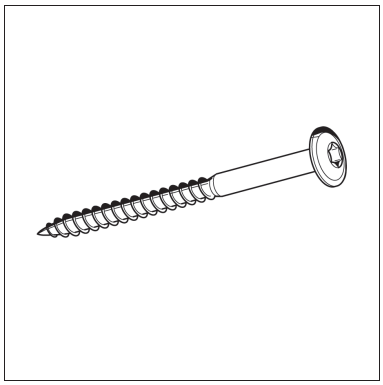
Group: E401

Application
Unit to compensate construction tolerances and to fix channel systems in combination with Bolt Screw Set STS.

Installation
The installation of Channels 41 will preferably be done by Flange Screw SCR FLA HCP M10 x 25 and Hexagon Nut NT hdg M10.

Technical Data
Material: Steel, HCP

Type	Plate dimensions [mm]	Dimensions of elongated hole [mm]	W [kg]	Quantity [pack]	Part number
STP	120 x 30	40 x 11	0.14	30	**111467**



Torx Flat Head Coach Screw FLAH

Group: 1369

Application

Flange screw with perfectly aligned properties for the constructional timber work, available in diameters 8 and 10 mm.

- Simple handling is secured due to ideal load transmission.
- The head dia. is aligned to the slots of Channel 41. Thus for direct assembly through the elongated hole of the channel, a good load bearing capacity is secured.
- The cutting notch allows direct screwing in without pre-drilling and allows a pinpoint locating.
- In addition, the tip avoids reliably the splitting of the battens behind.
- The high bearing of loads given by the flat head reduces the necessary fixing points. Especially for the fixing of roof hooks, an economical handling is assured.

Technical Data

Material: Steel, galvanised

Type	Ø [mm]	Length [mm]	Screw tool	W [kg]	Quantity [pack]	Part number
8/40	8	40	T 40	0.01	50	**110804**
8/60	8	60	T 40	0.02	50	**110805**
8/80	8	80	T 40	0.02	50	**110806**
10/70	10	70	T 40	0.03	50	**110807**
10/100	10	100	T 40	0.04	50	**110809**

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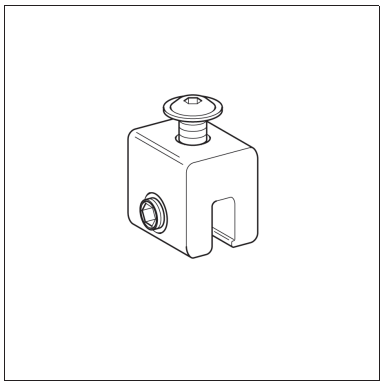


Aluminium Profiled Sheet Edge Clamp BFK

Group: E401

Application
Clamp for aluminum-profiled roof sheet to fix Channel 41.

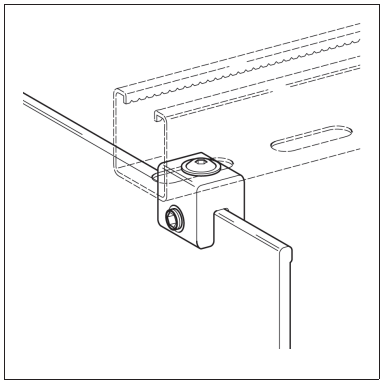
Scope of delivery
Clamp with clamping screw and one hex-drive bit per packaging unit included.

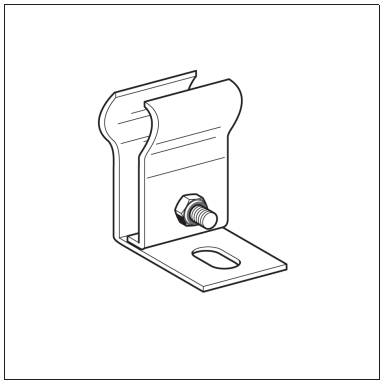
Installation
1. Position the clamp to the edge seam and tighten it up to 17 Nm.
2. Apply the channel and fix it with Flange Screw M10x15.

Technical Data

Max. perm. load vertical to the roof:	1.5 - 4.0 kN depending on the roof structure
Edge seam thickness:	≤ 7.0 mm
Material:	Aluminium

Type	W [kg]	Quantity [pack]	Part number
BFK	0.06	90	**198780**





Aluminium Profiled Sheet Ridge Clamp BFK-R

Group: E401

Application
Clamp for aluminum-profiled roof sheet to fix Channel 41.

Note: Load information must consider the data based on the manufacturer's calculation table.

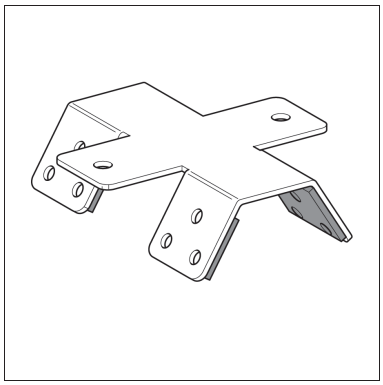
Scope of delivery
Clamp incl. connection elements.

Installation
1. Position the clamp on the ridge of the aluminum-profile and screw tight.
2. Apply the channel and fix it with Flange Screw SCR FLA M10x25, Washer 10/40 and M10 Nut HCP.

Technical Data

max. perm. load:	F_z = 1.2 kN
Material:	Stainless Steel 304 (A2)

Type	W [kg]	Quantity [pack]	Part number
BFK-R	0.14	25	**194058**



Trapezoidal Roof Support TBH 1

Group: E401

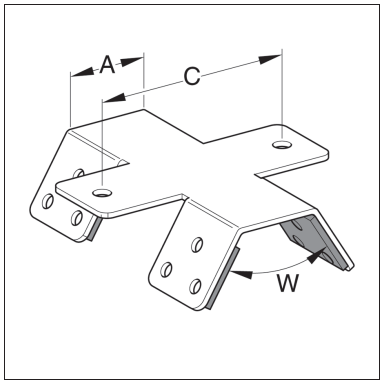
Application

For the attachment of Channels 41 and Flex Frames to trapezoidal steel roof sheets or insulated sandwich panel roof structures with a steel sub-structure.

Installation

1. Put the Trapezoidal Roof Support on the corrugation of the trapezoidal sheet and fix each strap with suitable self-drilling screws.
2. Apply the channel and fix it with each 2 Self Forming Screws FLS F 80

The perm. load is depending on the trapezoidal sheet, inserted screws, number of screws etc. and so is to be checked in individual cases.



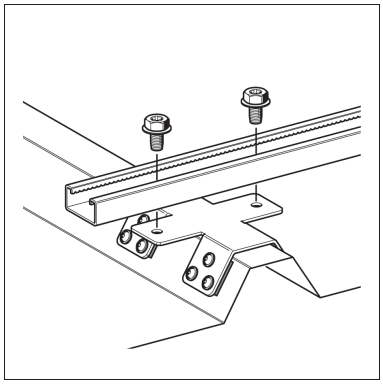
Technical Data

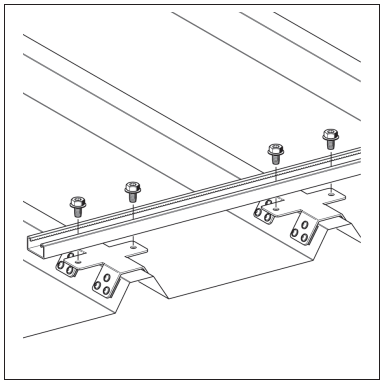
Type	A [mm]	C [mm]	W	Tensile load $Fz_{adm.}$ max. [kN] [1]
TBH 1	40	93	64°	1.5

[1] For application ≥ 1 drilling screw JT3-2H-4.8x19E14 per link and steel sheet thickness top belt ≥ 1mm

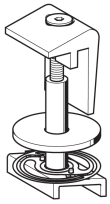
Material: Steel, HCP

Type	W [kg]	Quantity [pack]	Part number
TBH 1	0.28	1	**111468**





End Clip PV 1-E



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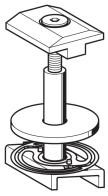
Middle Clip PV 1-M



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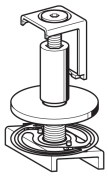
End Clip PV-E



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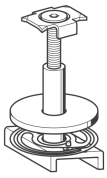
Middle Clip PV-M



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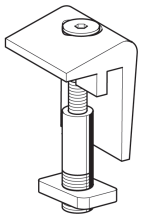
End Clip PV 27-E



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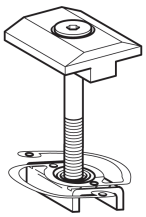
Middle Clip PV 27-M



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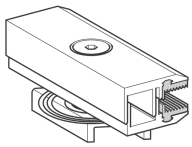
End Clamp PVG-E



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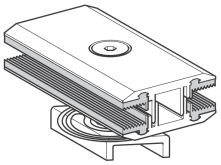
Middle Clamp PVG-M



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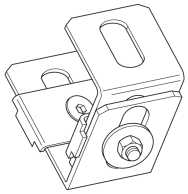
Collector Clip BBS



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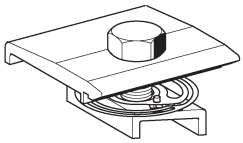
Collector Clip TH



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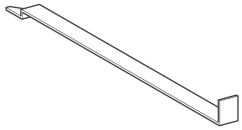
Lifting Point MH-S



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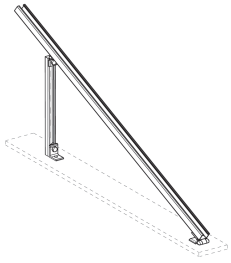
Flex Frame FXR SCR



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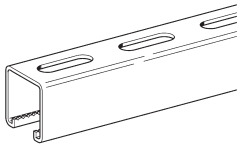
Channel MS 41 HCP



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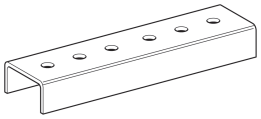
Channel Connector SK-L HCP



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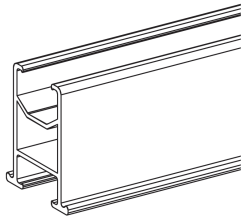
Channel MS ALU



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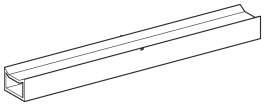
Channel Connector SK PV 27



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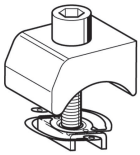
Cross Connector CRO ALU



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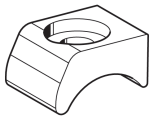
Beam Clamp P0 ALU



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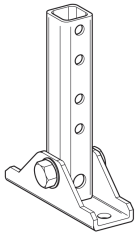
Joint 41 T HCP



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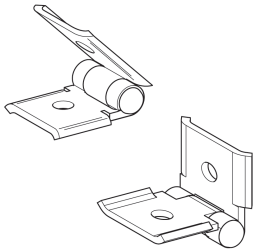
Joint 41 HCP



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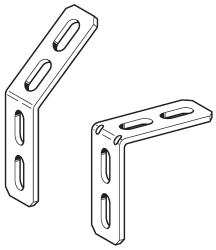
Fixing Bracket MW HCP



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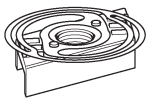
Speed Nut NT CC 41 HCP



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Speed Nut NT CC 27 HCP

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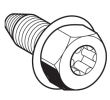
Self Forming Screw FLS F



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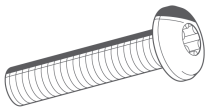
Flange Screw SCR FLA HCP



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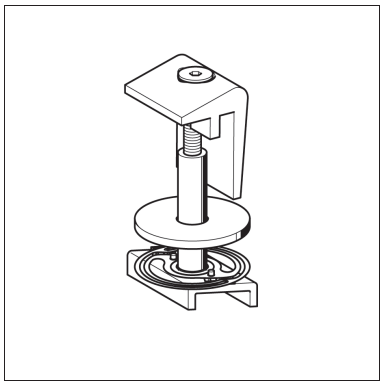
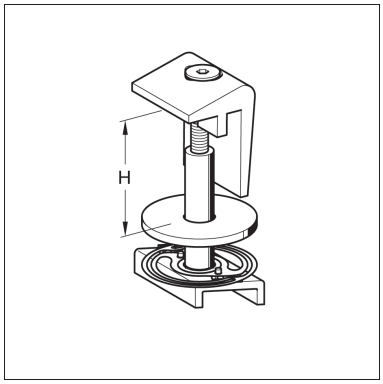
Cable Holder KHP

Page **2**-29





End Clip PV 1-E

Group: E314

Application

Edge fastening and assembly block for all typical framed Photovoltaic panels to be used with high loads caused by wind suction. Suits panel thicknesses of 35 - 50 mm for any angle. Bimetal corrosion restistance, by using seal-coating on the support (washer and sleeve). Clamping forces applied at outer edge of panel to prevent undue tensioning of glass.

Scope of delivery

Fully assembled unit comprising Speed Nut, Support and Clip.

Installation

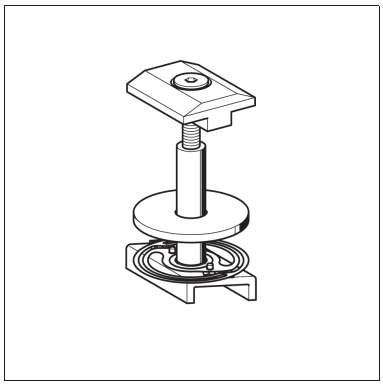
Insert Speed Nut into the open channel slot at any position required.
Adjust the clip to the panel and tighten it with max. 10 Nm.

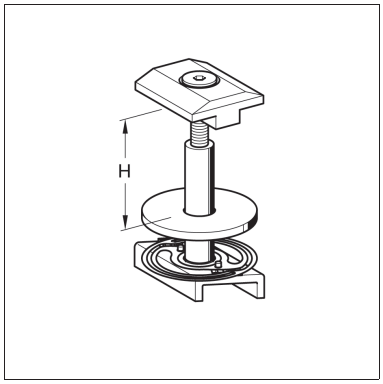
Technical Data

adm. shear force 90° to panel surface:	0.5 kN/clip
adm. tensile load:	3.2 kN/clip
Material:	
Clip:	Aluminium
Screw:	Stainless steel 304
Stud bolt, Washer and Speed Nut:	HCP

Type	Panel thickness [mm]	W [kg]	Quantity [pack]	Part number
PV 1-E	35 - 50	0.11	50	**199503**

03/2015





Middle Clip PV 1-M

Group: E314

Application

Middle fastening and assembly block for all typical framed Photovoltaic panels to be used with high loads caused by wind suction. Suits panel thicknesses (H) of 35 - 50 mm for any angle. Bimetal corrosion resistance, by using seal-coating on the support (washer and sleeve). Clamping forces applied at outer edge of panel to prevent undue tensioning of glass.

Scope of delivery

Fully assembled unit comprising Speed Nut, Support and Clip. No loose parts.

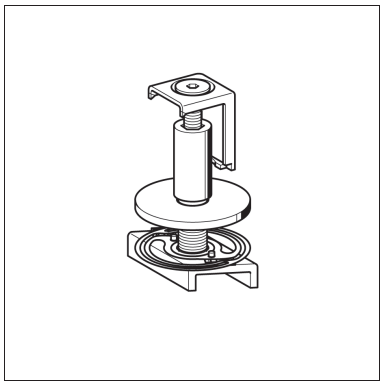
Installation

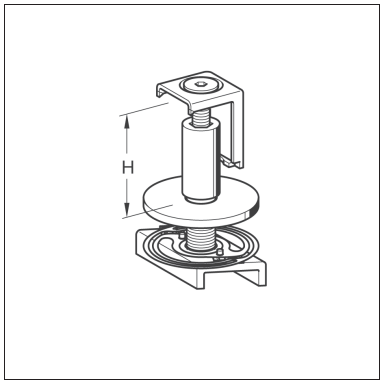
Fix Middle Clip into the required position by pressing the Speed Nut into the channel. Slide the Middle Clip along the channel so that it grips onto the existing PV panel already in position. Put the next panel on the frame and tighten the Middle Clip with max 10 Nm.

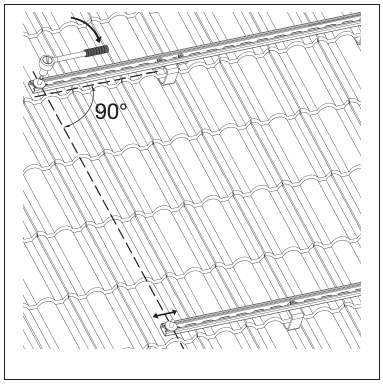
Technical Data

adm. shear force 90° to panel surface:	1.0 kN/clip
adm. tensile load:	3.2 kN/clip
Material:	
Clip:	Aluminium
Screw:	Stainless steel 304
Stud bolt, Washer and Speed Nut:	HCP

Type	Panel thickness [mm]	W [kg]	Quantity [pack]	Part number
PV 1-M	35 - 50	0.09	50	**199510**







End Clip PV-E

Group: E314

Application

Edge fastening and assembly block for all typical framed Photovoltaic panels. Suits panel thicknesses of 28 - 50 mm for any angle. Bimetal corrosion restistance, by using seal-coating on the support (washer and sleeve). No gap occurs between the frame and End clip, when using form lock clip. Clamping forces applied at outer edge of panel to prevent undue tensioning of glass.

Scope of delivery

Fully assembled unit comprising Speed Nut, Support and Clip.

Installation

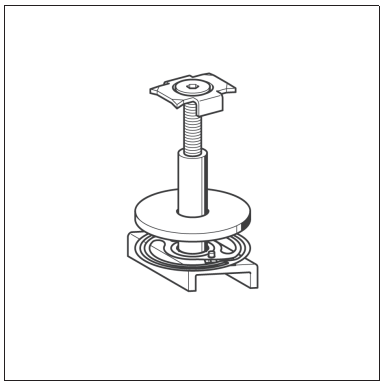
Insert Speed Nut into the open channel slot at any position required. Adjust the bolt into the right position (90° to channel) and tighten it with max. 15 Nm by using standard bit (hexagon socket 4mm, Form C8). The exact position of the bolt gives a strong end-stop for fixing the first panels. Put the L-clip on the top of the assembly, put the panel against the bolt and tighten the L-clip over the panel frame with a setting torque of 3 Nm max.

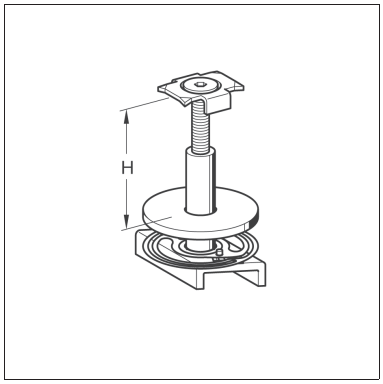
Technical Data

Prevention of panel slip and tension load up to 1.5 kN per Clip.
Material:

Clip and screw:	Stainless steel A2
Bolt, Washer and Speed Nut:	HCP

Type	Panel thickness [mm]	W [kg]	Quantity [pack]	Part number
PV-E 28 - 50	28 - 50	0.10	50	**193297**





Middle Clip PV-M

Group: E314

Application

Middle fastening and assembly block for all typical framed Photovoltaic panels. Suits panel thicknesses of 28 - 50 mm for any angle.
Bimetal corrosion resistance, by using seal-coating on support (washer and sleeve). No gap occurs between the frame and End Clamp, when using form lock clip. Clamping forces applied at outer edge of panel to prevent undue tensioning of glass.

Scope of delivery

Fully assembled unit comprising Speed Nut, Support and Clip. No loose parts.

Installation

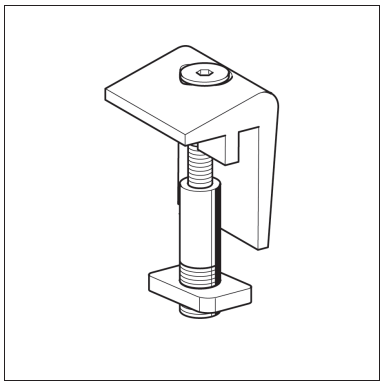
Fix Middle Clip into the required position by pressing the Speed Nut into the channel. Slide the Middle Clip along the channel so that it grips onto the existing PV panel already in position. Put the next panel on the frame and slide into position. To join the panels, tighten Middle Clip with a setting torque of max. 3Nm.
In case of higher, dynamic loadings (e.g. tracking devices,) the torque can be increased up to 7 Nm max. In addition it has to be checked whether more elements are necessary to secure the fixing

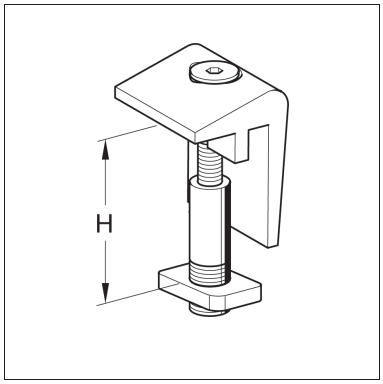
Technical Data

Prevention of panel slip and tension load up to 1.5 kN per Clip.
Material:

Clip and screw:	Stainless steel A2
Bolt, Washer and Speed Nut:	HCP

Type	Panel thickness [mm]	W [kg]	Quantity [pack]	Part number
PV-M 28 - 50	28 - 50	0.08	50	**193303**





End Clip PV 27-E

Group: E314

Application

Edge fastening and assembly block for aluminium framed Photovoltaic panels to Channel MS ALU. Suits panel thicknesses of 35 - 50 mm for any angle. Clamping forces applied at outer edge of panel to prevent undue tensioning of glass.

Scope of delivery

Fully assembled unit comprising Speed Nut, Support and Clip.

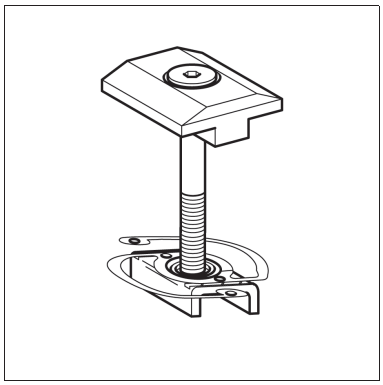
Installation

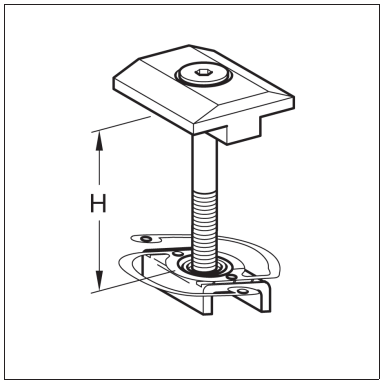
Insert Speed Nut into the open channel slot at any position required and tighten it with max. 8 Nm by using standard bit (hexagon socket 4mm, Form C8). Put the Clip on the top of the assembly, put the panel against the bolt and tighten the Clip over the panel frame with a setting torque of 5 Nm max.

Technical Data

Adm. shear force 90° to panel surface:	0,5 kN/clip
Adm. tensile load:	1,0 kN/clip
Material:	
Clip:	Aluminium
Stud bolt:	HCP
Speed Nut:	Stainless steel

Type	Panel thickness [mm]	W [kg]	Quantity [pack]	Part number
PV 27-E	35 - 50	0.06	50	**111726**





Middle Clip PV 27-M

Group: E314

Application

Middle fastening and assembly block for all aluminium framed Photovoltaic Panels to Channel MS ALU. Suits panel thicknesses of 34 - 52 mm for any angle.
Clamping forces applied at outer edge of panel to prevent undue tensioning of glass.

Scope of delivery

Fully assembled unit comprising Speed Nut, Support and Clip. No loose parts.

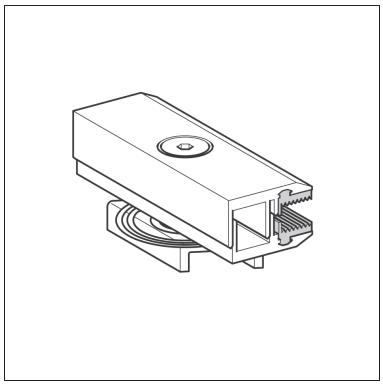
Installation

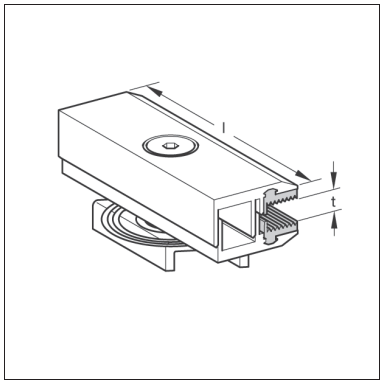
Fix Middle Clip into the required position by pressing the Speed Nut into the Channel MS ALU. Slide the Middle Clip along the channel so that it grips onto the existing PV panel already in position. Put the next panel on the frame and slide into position. To join the panels, tighten Middle Clip with a setting torque of max. 5Nm.

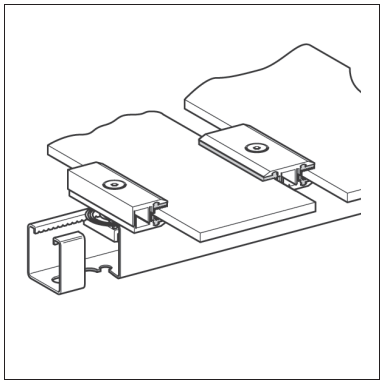
Technical Data

Adm. shear force 90° to panel surface:	0,5 kN/clip
Adm. tensile load:	1,0 kN/clip
Material:	
Clip:	Aluminium
Screw and Speed nut:	HCP

Type	Panel thickness [mm]	W [kg]	Quantity [pack]	Part number
PV 27-M 34 - 42	34 - 42	0.03	50	**111727**
PV 27-M 39 - 47	39 - 47	0.03	50	**111832**
PV 27-M 44 - 52	44 - 52	0.04	50	**111833**







End Clamp PVG-E

Group: E314

Application
End Clamp for secure, yet tension-free support of unframed Photovoltaic panels in Sikla Channel System 41. The elastomeric-lining avoids any metal contact between panel and clamp. Suitable for panel thickness of 6 to 10 mm.

Scope of delivery
Completely assembled unit, including Speed Nut CC 41 and screw.

Installation
Fix the End Clamp into the required position by pressing the Speed Nut into the channel. Slide the panel into the End Clamp and tighten the screw.

Technical Data

Max. adm. load (tension):	1,2 kN/clamp
Max. tightening torque:	5 Nm
Material:	
Clamp:	Aluminium
Screw:	Stainless steel A2
Channel Nut:	Steel, HCP

Approvals
First Solar Approval

Type	l [mm]	t [mm]	W [kg]	Quantity [pack]	Part number
PVG-E	80	6 - 10	0.11	50	**198384**

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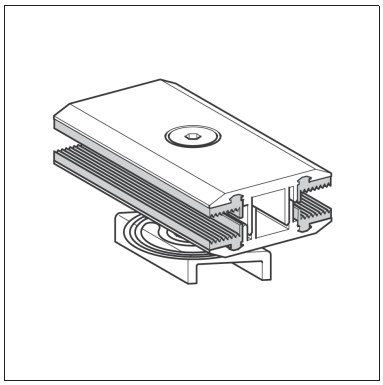
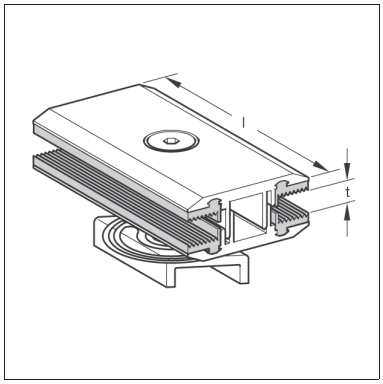
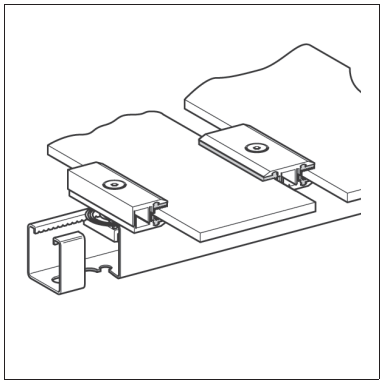






Middle Clamp PVG-M

Group: E314

Application
Middle Clamp for secure, yet tension-free support of unframed Photovoltaic panels in Sikla Channel System 41. The elastomeric-lining avoids any metal contact between the panel and the clamp. Suitable for panel thickness of 6 to 10 mm.

Scope of delivery
Completely assembled unit, including Speed Nut CC 41 and screw.

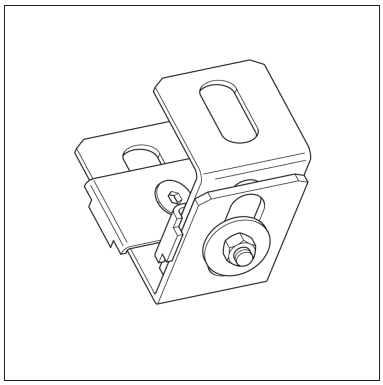
Installation
Fix the Middle Clamp into the required position by pressing the Speed Nut into the channel. Slide the Middle Clamp along the channel so that it grips onto the existing PV panel already in position. Slide the next PV panel into the Middle Clamp and tighten the screw.

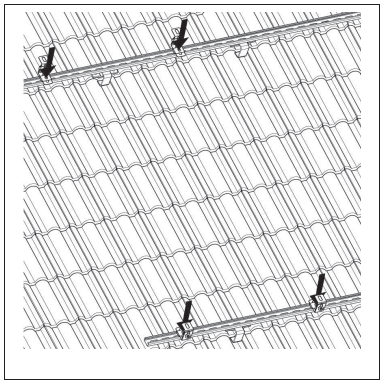
Technical Data

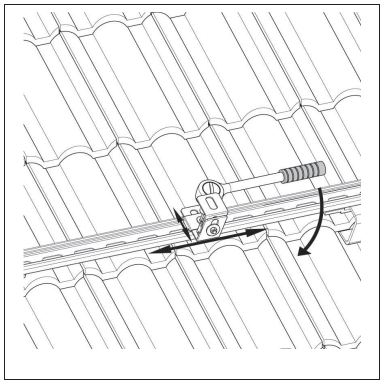
Max. adm. load (tension):	1,2 kN/Clamp
Max. tightening torque:	5 Nm
Material:	
Clamp:	Aluminium
Screw:	Stainless steel A2
Channel Nut:	Steel, HCP

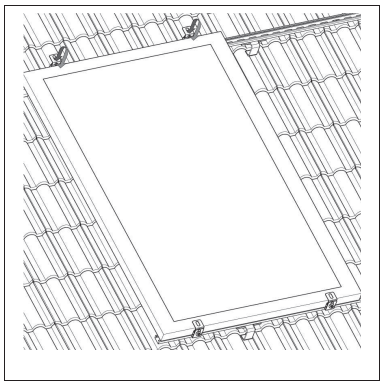
Approvals
First Solar Approval

Type	l [mm]	t [mm]	W [kg]	Quantity [pack]	Part number
PVG-M	80	6 - 10	0.12	50	**198377**









Collector Clip BBS

Group: E314

Application

Element to be used for form-close and safe connection of solar collectors to Channel System 41. It is possible to position the Collector Clip in steps of 90° to the channel slot without any rotation. Therefore it is also suitable for lateral assembly.

Scope of delivery

Collector clip, pre-assembled with CC 41-channel adaption.

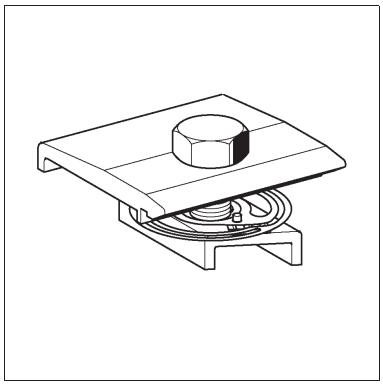
Installation

Lock the Collector Clip at any position of the channel by means of pressure on the screw. Set the required horizontal position and the vertical distance, which is given by the external dimension of the solar collector. Tighten Collector Clip on the channel. Drop the solar collector into the bottom Collector Clips. Now fix the top Collector Clips to the solar collector.

Technical Data

Material: Steel, HCP

Type	Adjustable range [mm]	W [kg]	Quantity [pack]	Part number
BBS	90 - 150	0.54	8	**198810**



Collector Clip TH

Group: E314

Application
Collector Clip to attach solar collectors with flat aluminium connection profiles to Channels 41.

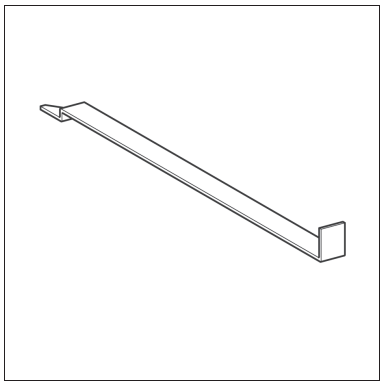
Scope of delivery
Fully assembled unit comprising Speed Nut, Support and Clip. No loose parts.

Installation
Lock the Collector Clip by pressing it into the Channel 41 at any place. Put the collector on the channel and slide the clip into parallel, correct position. Tighten the Clip with max. 10 Nm.

Technical Data
Adm. shear force 90° to panel surface = 0,8 kN / clip
Material:

Clip:	Aluminium
Screw:	Stainless steel 304
Speed nut:	Steel,HCP

Type	Panel thickness [mm]	W [kg]	Quantity [pack]	Part number
TH	3 - 4.5	0.07	12	**111473**



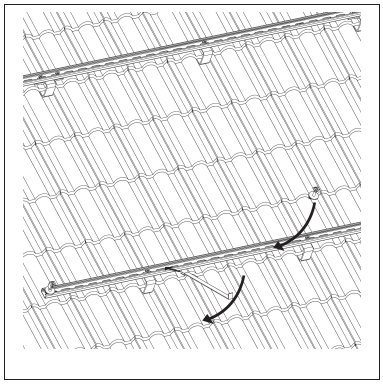
Lifting Point MH-S

Group: E100

Application
Assembly tool to aid installation and support of PV panel modules on sloping roofs. Fitting to all Channels 41. After assembly the lifting point could remain in the channel to prevent slipping of the PV panels.

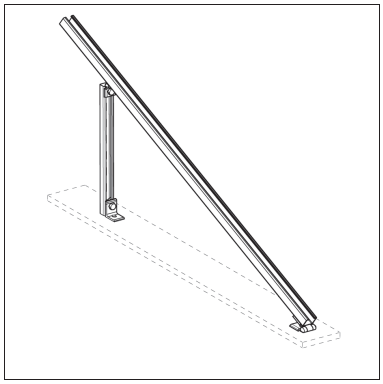
Advice
To achieve the correct ongoing adjustment of a row of PV panels, fix a minimum of the first three adjacent PV panels with Lifting Points before removing them.

Installation
Insert two Lifting Points into the lower Channel 41. Put the PV panels on the channel and slide them down to the bearing lug of the Lifting Points. Slide the PV panels to the end clamps and fix. Install Middle Clamps, slide to edge of PV panels and fix. Press the Lifting Point and turn it to the right, to remove the Lifting Point (if required). Use two Lifting Points per module.



Technical Data
Material: Steel, HCP

Type	W [kg]	Quantity [pack]	Part number
MH-S	0.28	1	**194096**



Flex Frame FXR SCR

Group: E400

Application
Element to fix Photovoltaic (PV) panels onto flat or shallow sloping roofs. Angular adjustment at a slope of 30°. Allowing simple connection to existing concrete block or bolt screws.

Scope of delivery
Frames are delivered flat in pairs to reduce storage space.
Further slopes or higher load requirements on demand.

Installation
Fix the Flex Frame at the side with the joint first, tilt it and tighten the fixing bracket.

Technical Data
Nominal load per channel: ≤ 3,5 kN (pression)
Material:
Channel: Steel 1.0350, galvanised strip to DIN EN 10327, surface coating HCP
Connecting parts: Steel, HCP

Type	Length L [mm]	W [kg]	Pack. [pair]	Part number
FXR SCR	1250	8.40	1	**198940**

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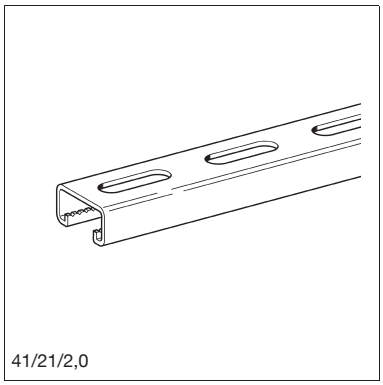

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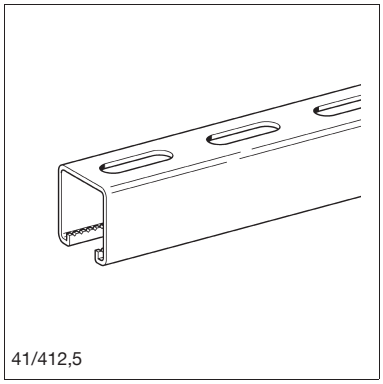

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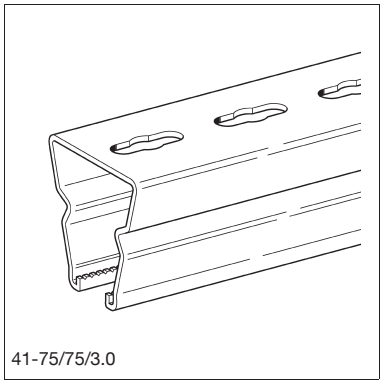


41-75/75/3.0

Channel MS 41 HCP

Group: 1811

Application
Element for easily and efficiently pre-assembling crossbars, wall brackets and supporting structures on construction sites or in workshops.

Scope of delivery
Available as single or double channels.
Double channels are joined together by clinching.

Installation
All Channels MS 41 hcp are serrated inside and provide numerous combination options with other high corrosion protected system components.

Technical Data
Material: Steel, HCP

D = Double channel

Type W/H/th [mm]	Section modulus [cm^3]	Moment of inertia [cm^4]	Radius of gyration [cm]
41/21/2.0	W_y : 0.82 W_z : 2.12	I_y : 0.92 I_z : 4.35	i_y : 0.76 i_z : 1.65
41/31/2.0	W_y : 1.60 W_z : 2.88	I_y : 2.77 I_z : 5.90	i_y : 1.13 i_z : 1.65
41/41/2.0	W_y : 2.43 W_z : 3.65	I_y : 5.16 I_z : 7.48	i_y : 1.46 i_z : 1.75
41/41/2.5	W_y : 2.96 W_z : 4.41	I_y : 6.19 I_z : 9.05	i_y : 1.43 i_z : 1.72
41/62/2.5	W_y : 5.54 W_z : 6.27	I_y : 17.70 I_z : 12.86	i_y : 2.10 i_z : 1.79
41-75/75/3.0	W_y : 10.31 W_z : 11.59	I_y : 44.42 I_z : 43.48	i_y : 2.53 i_z : 2.50
41/21/2.0 D	W_y : 2.35 W_z : 4.24	I_y : 4.93 I_z : 8.70	i_y : 1.24 i_z : 1.65
41/41/2.5 D	W_y : 9.02 W_z : 8.82	I_y : 36.99 I_z : 18.10	i_y : 2.46 i_z : 1.72
41-75/75/3.0 D	W_y : 30.72 W_z : 23.07	I_y : 230.40 I_z : 86.96	i_y : 4.07 i_z : 2.50

Type W/H/th [mm]	Cross section A [cm^2]	Distance e [cm]	Max. point carrying capacity F_{max} [kN]	Max. torsional moment Mq [Nm]
41/21/2.0	1.61	1.12	4.0	44.5
41/31/2.0	2.17	1.73	4.0	44.5
41/41/2.0	2.43	2.12	4.0	44.5
41/41/2.5	3.05	2.09	6.0	44.5
41/62/2.5	4.01	3.20	6.0	44.5
41-75/75/3.0	6.95	4.31	10.0	44.5
41/21/2.0 D	3.21	2.10	4.0	44.5
41/41/2.5 D	6.09	4.10	6.0	44.5
41-75/75/3.0 D	13.90	7.50	10.0	44.5

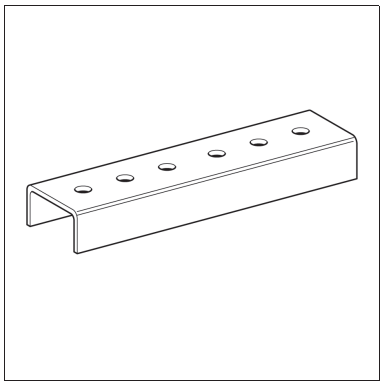
Notice: All values take into account the perforation of the channels.
For load charts, see chapter "Pressix CC 41".

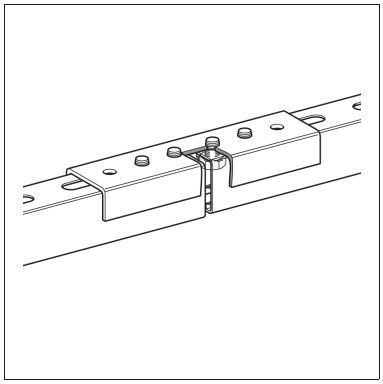
Approvals

This product is has obtained the "RAL Gütezeichen Rohrbefestigung" and is subject to external surveillance according to RAL GZ-655.

* = no RAL quality label

Type	Length [m]	Slot pattern	Weight [kg/m]	Qty. [m]	Part number
41/21/2.0	6	3	1.32	6	**193860**
41/31/2.0	6	3	1.64	6	**198896**
41/41/2.0	6	3	1.97	6	**196724**
41/41/2.5	6	3	2.36	6	**161497**
41/62/2.5	6	3	3.13	6	**199527**
41-75/75/3.0	6	4	5.68	6	**174008**
41/21/2.0 D *	6	3	2.64	6	**193884**
41/41/2.5 D *	6	3	4.74	6	**166748**
41-75/75/3.0 D *	6	4	11.24	6	**173981**





Channel Connector SK-L HCP

Group: 1853

Application

Element for connecting Channels. The multiple bearing of the Channel is to be secured. The Channel Connector should not to be used between the last two bearing points. In combination with Channels > 41/21 the admissible limit has to be respected.

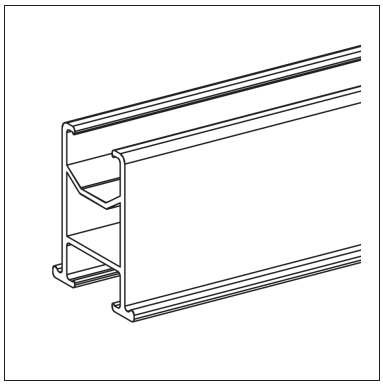
Installation

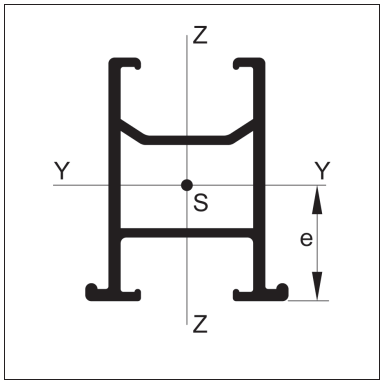
Position the Channel Connector on the back of the channel and bolt together the channel ends (through the channel slots) by means of each two Self Forming Screws FLS F 80.

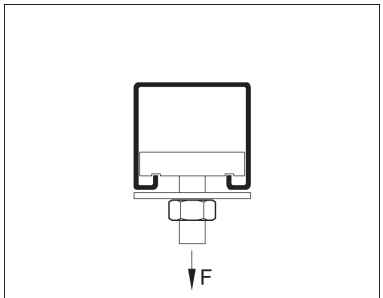
Technical Data

Max. adm. limit/ flexion: 300 Nm
Material: Steel S235 JR, HCP

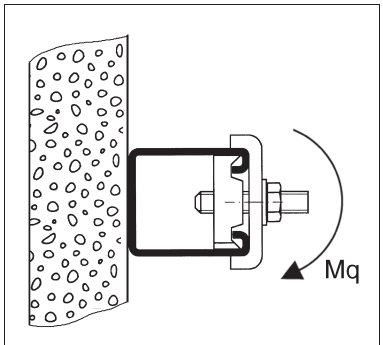
Type	For channel	Channel height h_{max} [mm]	Overall length [mm]	W [kg]	Quantity [pack]	Part number
SK-L	41	62	180	0.36	10	**198971**







Max. Point carrying capacity Fz



Max. torsional Moment Mq

Channel MS ALU

Group: E111

Application

Suitable for easy and professional assembly of support constructions for solar panels. Creation of a cross bracing with Channels MS Alu 27/42 only is possible by using Cross Connector CRO ALU. Simple handling due to the used aluminium material.

Installation

Using the Sikla CC Connecting Parts allows for easy and fast assembly of solar panels.

Technical Data

Material: Aluminium

Type	Section modulus [cm^3]	Moment of inertia [cm^4]	Radius of inertia [cm]
27/42	W_y : 1.89 W_z : 1.97	I_y : 4.28 I_z : 3.47	i_y : 1.25 i_z : 1.13
41/31/2,0	W_y : 1.60 W_z : 2.88	I_y : 2.77 I_z : 5.90	i_y : 1.13 i_z : 1.65

Type	Cross section A [cm^2]	Distance e [cm]	Max. point carrying capacity F_{max} (tension) [kN]	Max. torsional moment Mq [Nm]
27/42	2.74	2.26	1.5	10
41/31/2.0	2.17	1.73	1.5	10

Type	Length [m]	Weight [kg/m]	Qty. [m]	Part number
27/42	6.15	0.75	6	**111713**
41/31/2.0	6.00	0.55	6	**112637**

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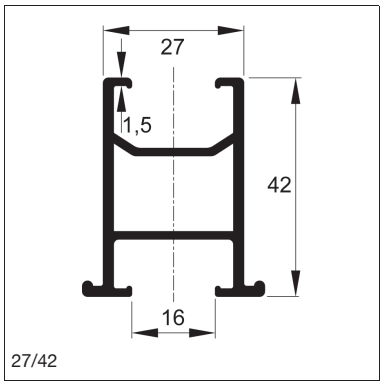
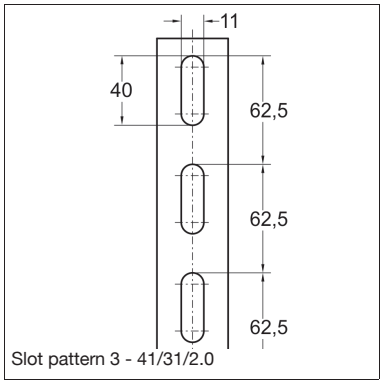
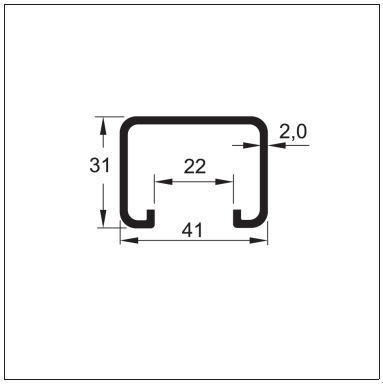


27/42

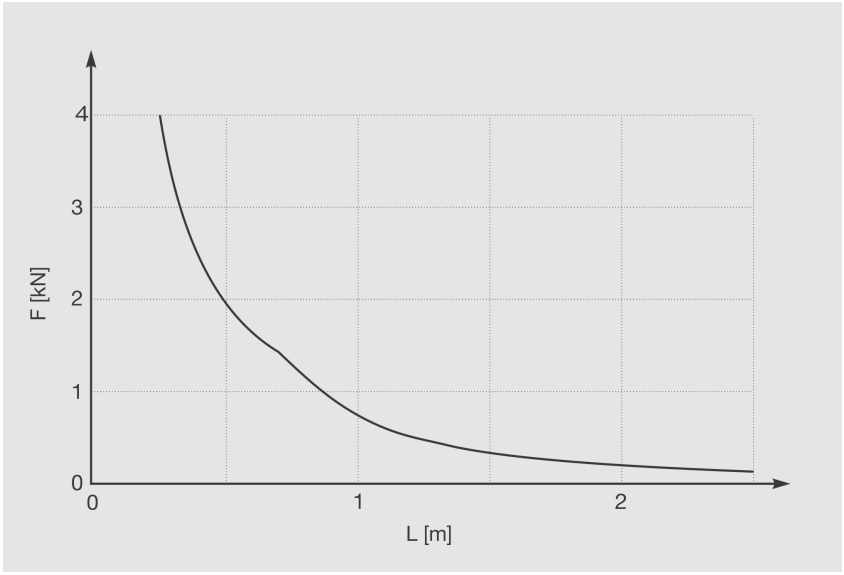


Slot pattern 3 - 41/31/2.0

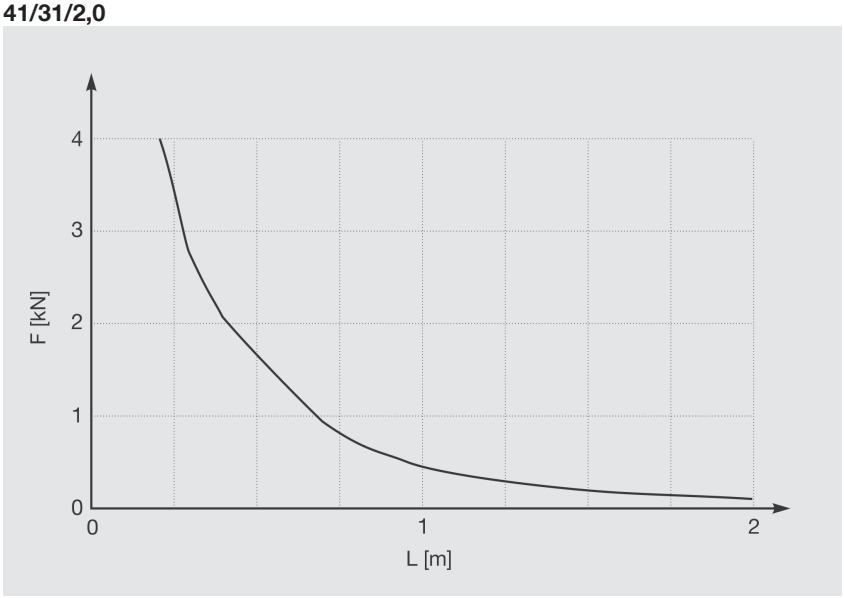


Channel MS ALU

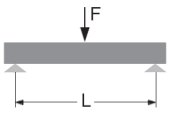
27/42

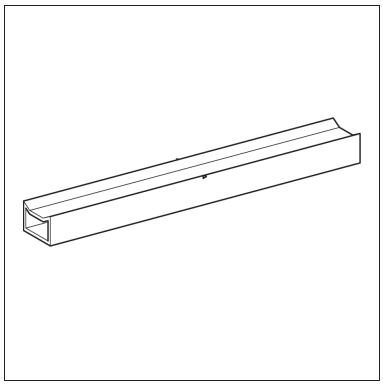


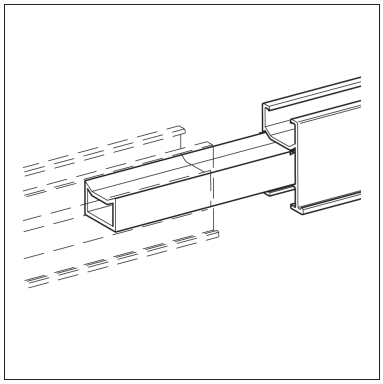
41/31/2,0



$\sigma_{perm} \leq 130$ N/mm^2
$f \leq L/200$







Channel Connector SK PV 27

Group: E112

Application

Channel Connector for easy and secure prolongation resp. connection of Channel MS ALU. The channel opening at the junction remains open for the assembly of further components.

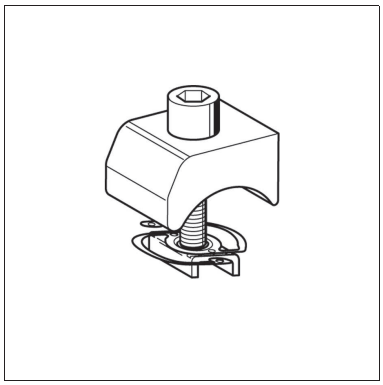
Installation

Insert Channel Connector SK PV up to the marking into the Channel, then mount the next channel.

Technical Data

Adm. bending moment: 200 Nm
Material: Aluminium

Type	W [kg]	Quantity [pack]	Part number
PV 27	0.06	100	**111812**



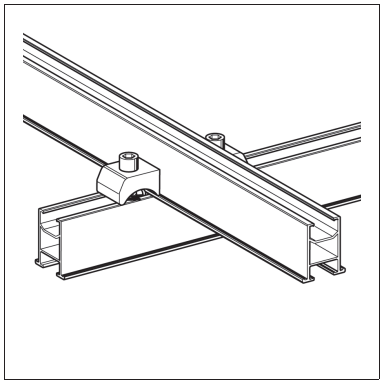
Cross Connector CRO ALU

Group: E112

Application
Cross combination among the Channels MS ALU and the Assembly System Pressix CC 27.

Scope of delivery
Complete unit consisting of Channel Nut, Screw and Clip, no loose parts.

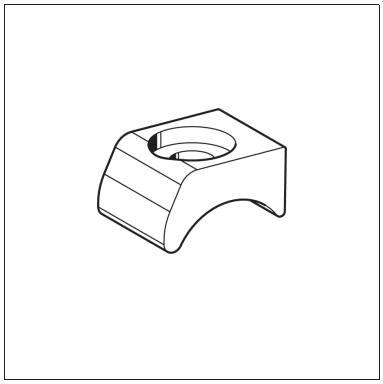
Installation
Lock the Cross Connector by pressing it into the Channel MS ALU at any place, push it against the crossing channel and tighten at max. 5Nm.



Technical Data

Perm. shear force at bilateral arrangement:	1,1 kN
Per. tensile load:	1,0 kN
Material:	
Clip:	Aluminium
Screw and Channel Nut:	HCP

Type	W [kg]	Quantity [pack]	Part number
CRO	0.04	100	**111813**



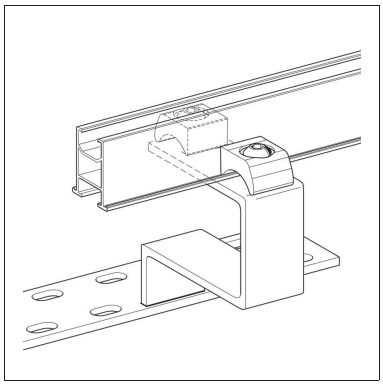
Beam Clamp P0 ALU

Group: E112

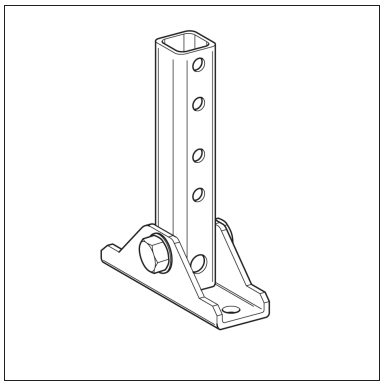
Application
Element for direct fixing of Channel MS ALU 27/42 to Roof Hook DH fix CRO by means of Flange Screw SCR FLA HCP TT M10 x 25.

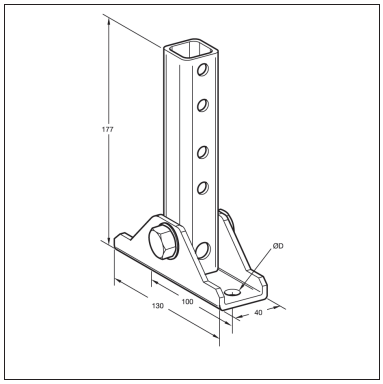
Installation
Position Channel MS ALU on the Roof Hook, install Beam Clamps P0 and thighten Flange Screw with max. 20 Nm.

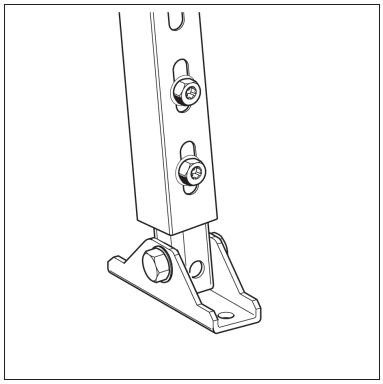
Technical Data
Material: Aluminium



Type	W [kg]	Quantity [pack]	Part number
P0 TT	0.02	50	**112384**







Joint 41 T HCP

Group: 1842

Application

To be used for connecting Channels MS 41 to optionally bended structures such as tunnels, bended roof frames etc. under different angles. Especially suitable as brace support. Arrangement of the channel opening to all directions is possible.

Scope of delivery

Pre-assembled with captive screw and nut.

Installation

Fixation to walls, ceiling and floors by means of dowels. Adjustment of angle during assembly. Easy, fast and secure assembly of the channel with two Self Forming Screws FLS F 80.

Technical Data

Max. adm. load (vertical assembly to ceiling): 4.4 kN
Material: Steel S235 JR, HCP

Type	Ø D [mm]	W [kg]	Quantity [pack]	Part number
JOI 41 T	10.5	0.81	20	**197615**

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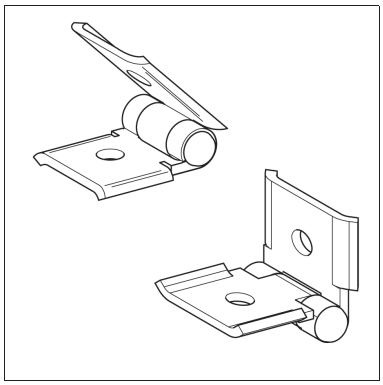
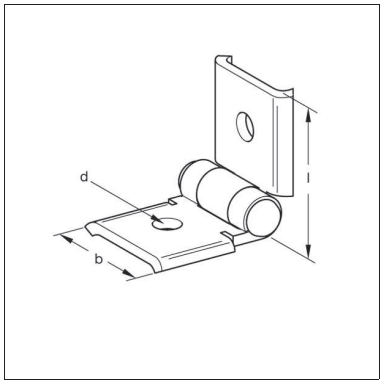
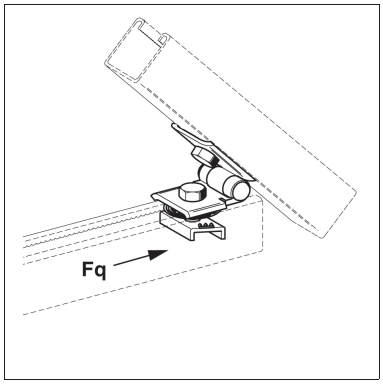
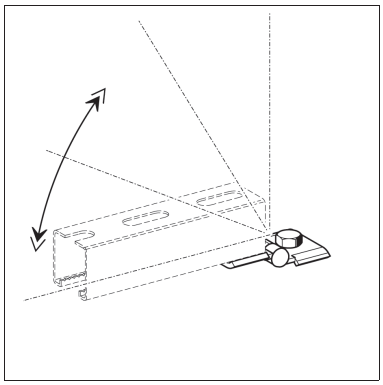








Joint 41 HCP

Group: 1842

Application

For connecting Channels MS 41 allowing for variable angle-adjustment ranging from 0° - 180°. Suitable for direct connection to the building structure and, in combination with channel, can be used as an angular support for bracketry.

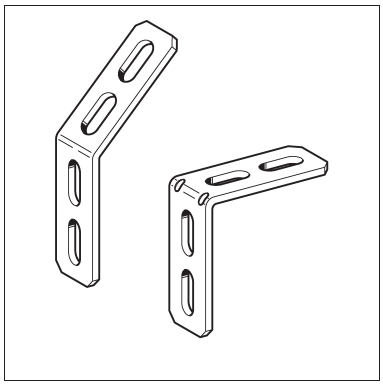
Installation

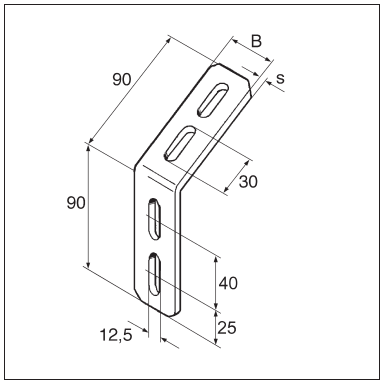
Connecting possibilities:
Back of the channel with Channel Nut HZ 41 and screw
Opening of the channel with Speed Nut CC 41 and screw

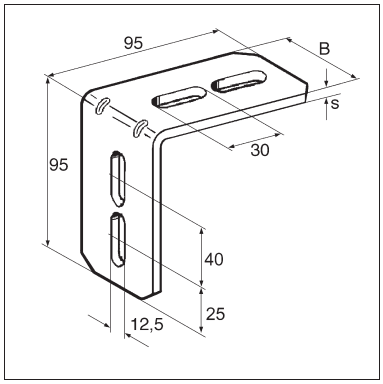
Technical Data

Nominal load:	Fq = 2.0 kN per juncture
Tightening torque:	50 Nm
Material:	Steel S235 JR, HCP

Type	d [mm]	b [mm]	l [mm]	W [kg]	Quantity [pack]	Part number
JOI 41 V	10.5	48	54	0.18	50	**198049**
JOI 41 Z	10.5	48	54	0.18	50	**199244**







Fixing Bracket MW HCP

Group: 1826

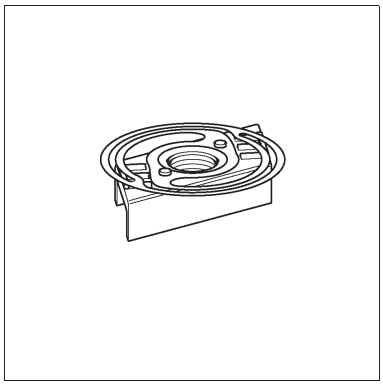
Application

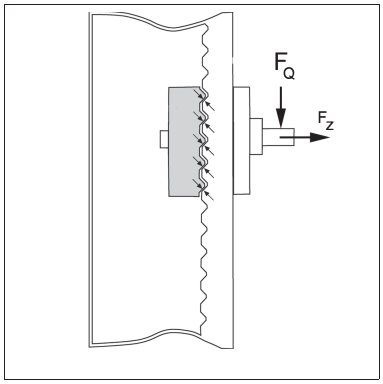
Suitable for Sikla Channels MS 41.
Useful addition to Support Brackets for integration in crossbars and other structures composed of hot-dipped galvanised channels.

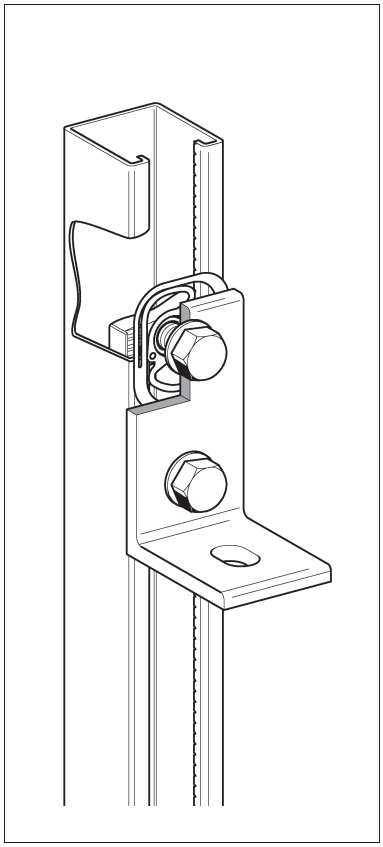
Technical Data

Material: Steel, HCP

Type	B [mm]	s [mm]	W [kg]	Quantity [pack]	Part number
90/90/30°	40	4	0.23	25	**194041**
90/90/45°	40	5	0.23	25	**162045**
95/95/90°	40	5	0.23	25	**162036**







Speed Nut NT CC 41 HCP

Group: 1814

Application

In particular useful for installation in vertical channels or places of difficult access.

Further advantages:

- For all Sikla Channels MS 41, independent of the channel's height.
- No getting stuck on bolt heads when sliding in the channel.
- No appearance of settlement after tightening.

Scope of delivery

Channel Nut and Spring are tightely connected.

Installation

After inserting the Speed Nut into the channel opening, it is turned to the right as far as it will go by exerting slight pressure on it; deinstallation may be effected by following the instructions on the reverse order.
Installation and deinstallation do not require tools and may be repeated several times.

Technical Data

	M6	M8	M10	M12
Tightening torque 8.8 [1] [Nm]	10	25	40	80

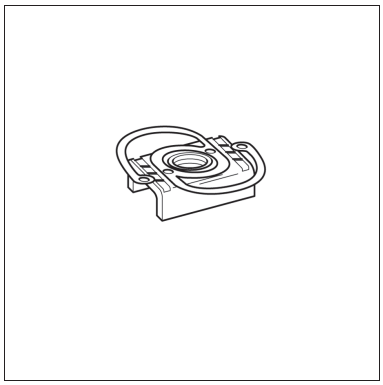
[1] Using lower steel classes, the value are to be reduced accordingly.

Channel thickness [mm]	M6 FZ ≤ [kN]	M8 FZ ≤ [kN]	M10 FZ ≤ [kN]	M12 FZ ≤ [kN]		M6 FQ ≤ [kN]	M8 FQ ≤ [kN]	M10 FQ ≤ [kN]	M12 FQ ≤ [kN]
1.5	3.2	4.7	4.7	7.5		0.7	1.8	2.9	7.5
2.0	3.2	5.8	5.8	10		0.9	2.1	3.4	9
2.5	3.2	5.8	5.8	11		1.0	2.6	4.1	9
3.0	3.2	5.8	5.8	13		1.1	2.8	4.4	9

Note: The permissible load capacities of the channels are to be respected.

Material:
CC-Channel Nut: Steel class, HCP
Spring washer: Sheet metal spring steel, rustproof

Type	W [kg]	Quantity [pack]	Part number
CC 41-M6	0.03	50	**198698**
CC 41-M8	0.03	50	**198650**
CC 41-M10	0.03	50	**186284**
CC-41 M12	0.06	50	**110015**



Speed Nut NT CC 27 HCP

Group: S315

Application

In particular useful for installation in vertical channels or where access is difficult.

Further advantages:

- Can be used in all Sikla Channels MS 27, independent of the channel's height.
- No getting stuck on bolt heads when sliding in the channel.
- No appearance of settlement after tightening.

Scope of delivery

Channel Nut and Spring are tightely connected.

Installation

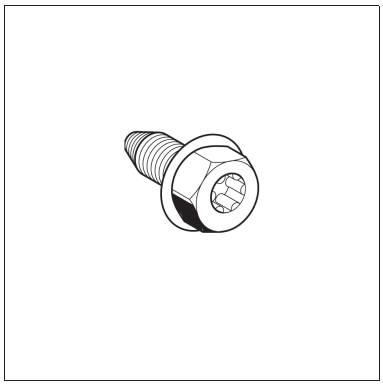
After inserting the Speed Nut into the channel opening, exert a slight axial pressure. This will cause the nut to turn to the right and engage into the channel. De-installation simply requires the nut to be turned to the left and pulled free. Installation and de-installation do not require tools and may be repeated several times.

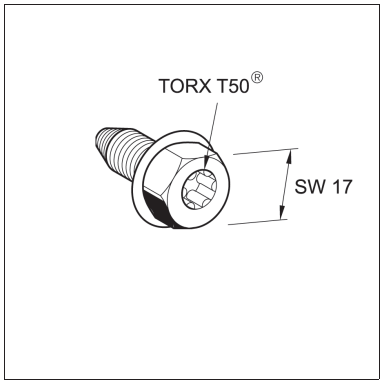
Tighten the part to be connected - that's it!

Technical Data

Fz =	1,5 kN
Material:	
Channel Nut:	Steel, class 5.6, HCP
Spring washer:	Sheet metal spring steel, rustproof

Type	W [kg]	Quantity [pack]	Part number
CC 27-M6	0.01	100	**111716**
CC 27-M8	0.01	100	**111717**





Self Forming Screw FLS F

Group: A430

Application

The Self Forming Screw FLS creates its own thread inside the wall of the Framo pilot hole. During the screw-driving operation, the base steel is re-shaped and hardened to form an air-tight seal between the threads of the screw and the surrounding steel, making it exceptionally resistant to vibrational loosening and increasing fastening strength.

Technical Data

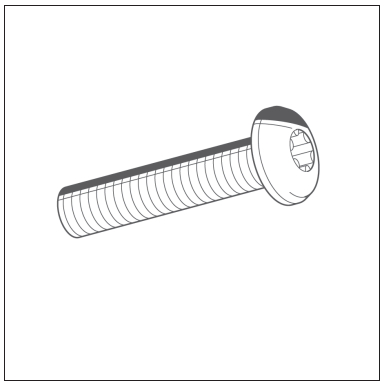
Application	Tightening torque [Nm]
System Framo	60
Connection to Channels MS 41	35

Material: Steel, HCP

Approvals

MPA tested

Type	W [kg]	Quantity [pack]	Part number
FLS F	0.03	100	**192512**



Flange Screw SCR FLA HCP

Group: 1875

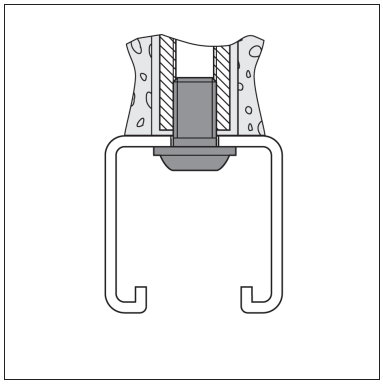
Application

Type M10 x 15 allows fixation of Channels by means of Drive Plug AN, without exceeding the max. permissible screw-in depth or to go under the min. screw-in depth required.
Type M10 x 25 is the ideal connecting part for two Sikla Channels MS 41.

Versions "TT" are self-forming screws. Type M10 x 55 is applicable for fixing components with thickness of max. 41 mm to "Framo 80" system.

Installation

The maximum admissible tightening torque strictly has to be observed.



Technical Data

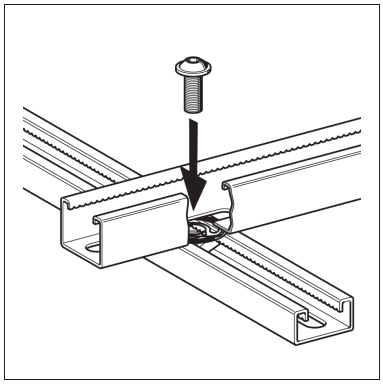
M10 x 15 and M10 x 25

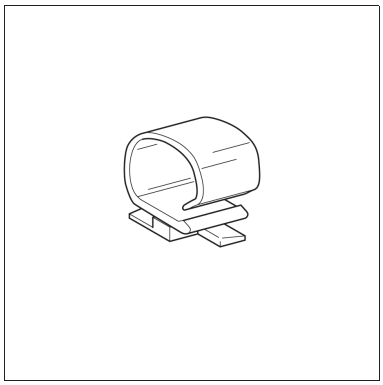
Drive:	Internal hexagon SW 6

TT M10 x 25 and TT M10 x 55

max. adm. tightening torque:	20 Nm (max. adm.)
Drive:	Torx-T50
Material:	Steel, HCP

Type	Length [mm]	W [kg]	Quantity [pack]	Part number
M10 x 15	15	0.01	100	**199107**
M10 x 25	25	0.02	100	**198353**
TT M10 x 25	25	0.02	600	**110503**
TT M10 x 55	55	0.04	500	**197608**





Cable Holder KHP

Group: E100

Application

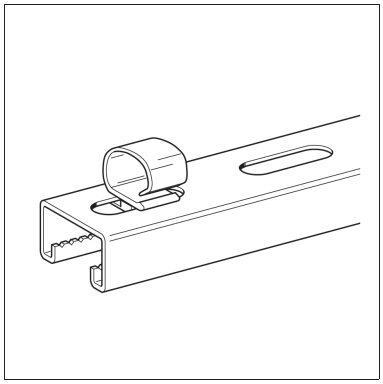
Clip for connecting cables up to a diameter of 16mm to PV mounting systems. Suitable to slot into the back of all Channels MS 41 with min. profile thickness of 2mm.

Installation

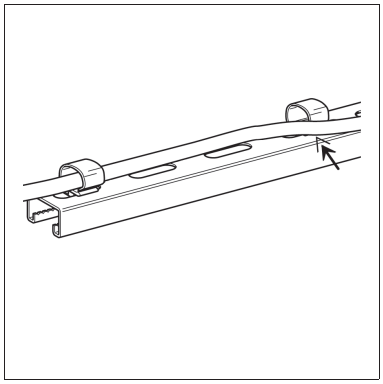
The cable holder is locked by a simple 90 degree right turn in the elongated holes of the mounting rail.

Technical Data

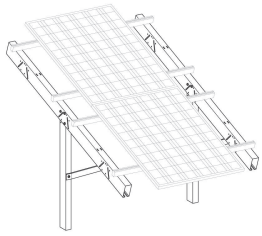
Material: PA, nature



Type	W [kg]	Quantity [pack]	Part number
KHP	0.01	500	**110879**



Ground Mount System



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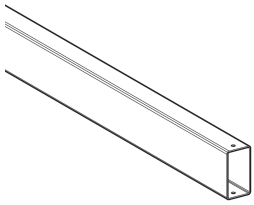
Post RAM Solar



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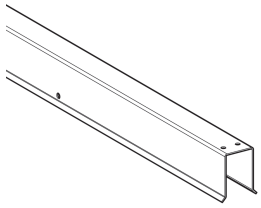
T-Bar Solar



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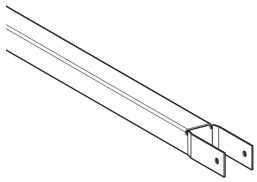
Strut STR Solar



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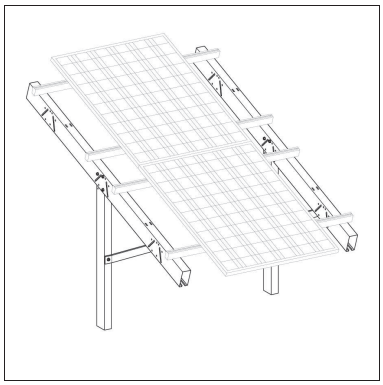

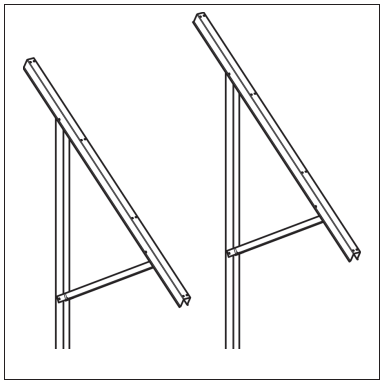

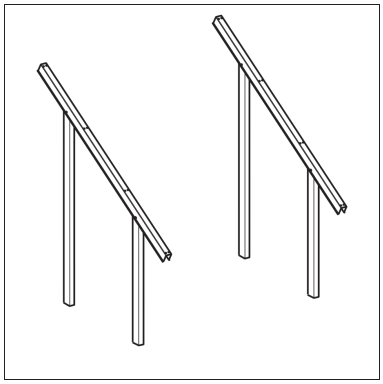

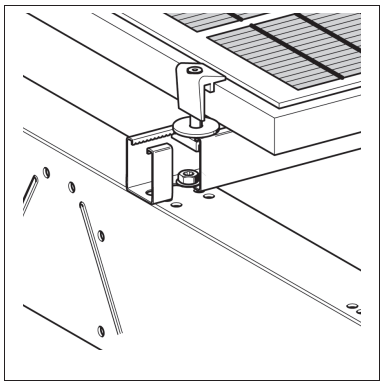

Ground Mount System

Group: E400

Application

Cost-effective ground mount system for large-scale PV plants.
Substantial overall cost reduction due to the foundation technology based on pile-driven supports. On the one hand wind and snow loads are transfered into the soil by the friction between the post and the soil and on the other hand via the pressure at the peak end of the post due to compressed rocky soil inside the post, creating a safe foundation. The buckling resistant geometry of the section prevents torsional deformation of the posts in case of hitting obstacles during installation.
Selection, configuration and design of the structural system components are the result of the individual analysis of the project, which guarantee the most effective use of material.

Benefits:

- No soil sealing
- Extremely quick mounting time
- Simple assembly
- Prefabricated system
- Perfectly synchronised system components - only 6 parts required
- High durability due to excellent HCP surface protection
- Optimum utilisation of material resources
- Mounting time up to 1 km length per day
- Simple adjustment options during assembly by means of defined friciton
- Simple, cost-saving deconstruction

Scope of delivery

Ground mount system comprising post, t-bar, channel, module clamps, screws, plus additional strut (optionally required)

System	Post RAM Solar OAR	T-Bar Solar OAT	Strut STR Solar OA
Single Post System with bracing	1	1	1
Dual Post System	2	1	-

Installation

The selection of foundation and design of supporting structure is based on individual structural analysis according to the current state of standardisation and specifications.

1. Drive the posts into the soil. The piling depth is based upon the results of the geological survey.
2. Connect the t-bar onto the post. Screw the guide bolt in the aligned t-bar/ post drill hole. Adjust the t-bar according to the pitch angle and tighten with the remaining screws.
3. Place the horizontal channels on top of the t-bars and fix them in position. Install the channel connectors and fix them with screws.
4. Click in place the module clamps. Alternatively, with shorter tables, steps 3 and 4 could be executed still in horizontal position before adjustment of the inclination.
5. Place the modules onto the construction, position them and tighten the module clamps.

Technical Data

Material: Steel
Surface: HCP

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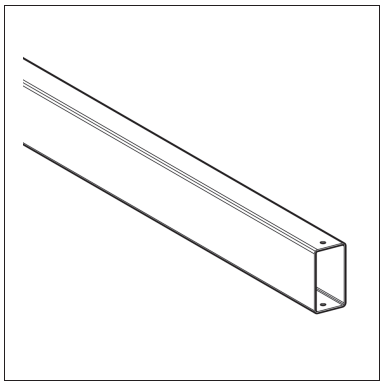
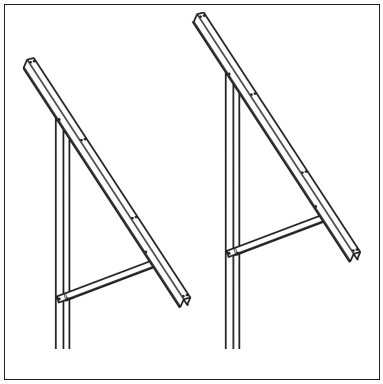
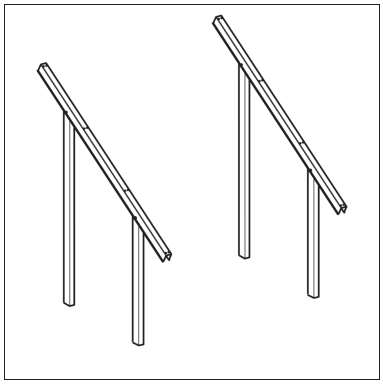
Type	Weight [kg/m]	Qty. [m]	W [kg]	Quantity [pack]	Part number
Post RAM Solar OAL 3 mm HCP	7.68	1			**113167**
T-Bar Solar OAL 3 mm HCP	6.31	1			**113168**
Strut STR Solar OAL 3 mm HCP			5.38	1	**113166**







Post RAM Solar

Group: E400

Application

Post as part of Sikla Ground Mount System for mounting Photovoltaic panels. Cost-effective ground mount system for large-scale PV plants. Substantial overall cost reduction due to the foundation technology based on pile-driven supports. On the one hand wind and snow loads are transfered into the soil by the friction between the post and the soil and on the other hand via the pressure at the peak end of the post due to compressed rocky soil inside the post, creating a safe foundation. The buckling resistant geometry of the section prevents torsional deformation of the posts in case of hitting obstacles during installation.
Selection, configuration and design of the structural system components are the result of the individual analysis of the project, which guarantee the most effective use of material.

Benefits:

- No soil sealing
- Extremely quick mounting time
- Simple assembly
- Prefabricated system
- Perfectly synchronised system components - only 6 parts required
- High durability due to excellent HCP surface protection
- Optimum utilisation of material resources
- Mounting time up to 1 km length per day
- Simple adjustment options during assembly by means of defined friciton
- Simple, cost-saving deconstruction

Installation

Ramming of the post according to geological expertise.

Technical Data

Material: Steel
Surface: HCP

Type	Weight [kg/m]	Qty. [m]	Part number
Post RAM Solar OAL 3 mm HCP	7.68	1	**113167**

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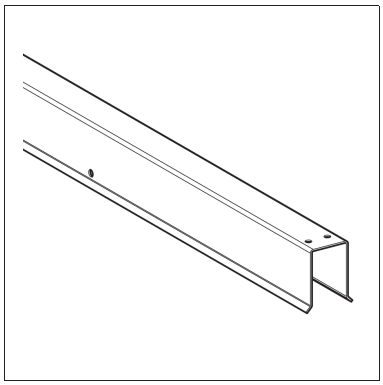
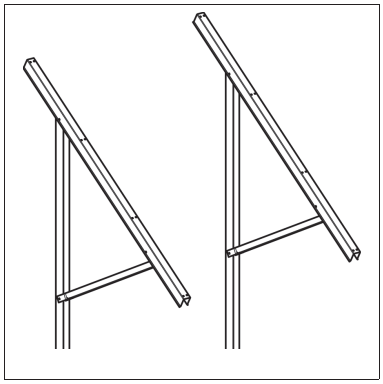
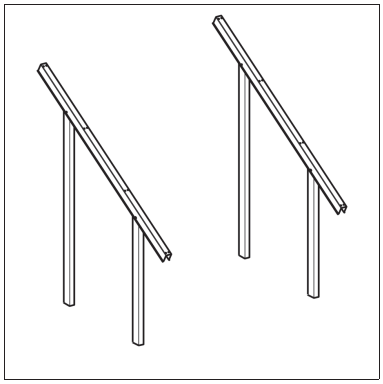






T-Bar Solar

Group: E400

Application

T-Bar as part of Sikla Ground Mount System for mounting Photovoltaic panels. Cost-effective ground mount system for large-scale PV plants. Substantial overall cost reduction due to the foundation technology based on pile-driven supports. On the one hand wind and snow loads are transfered into the soil by the friction between the post and the soil and on the other hand via the pressure at the peak end of the post due to compressed rocky soil inside the post, creating a safe foundation. The buckling resistant geometry of the section prevents torsional deformation of the posts in case of hitting obstacles during installation.
Selection, configuration and design of the structural system components are the result of the individual analysis of the project, which guarantee the most effective use of material.

Benefits:

- No soil sealing
- Extremely quick mounting time
- Simple assembly
- Prefabricated system
- Perfectly synchronised system components - only 6 parts required
- High durability due to excellent HCP surface protection
- Optimum utilisation of material resources
- Mounting time up to 1 km length per day
- Simple adjustment options during assembly by means of defined friciton
- Simple, cost-saving deconstruction

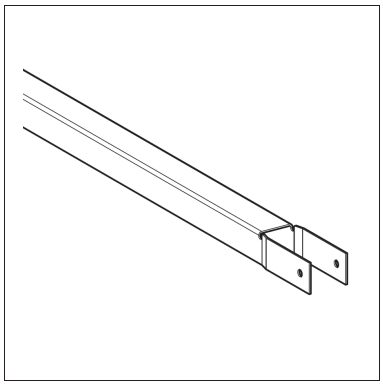
Installation

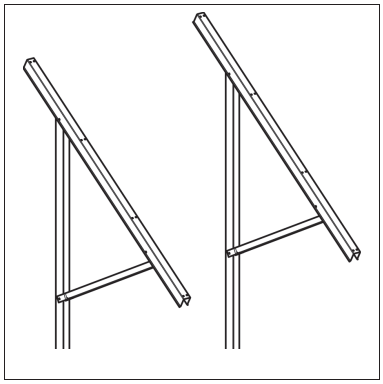
Fastening of T-Bar to the Post with Strut and screw connections according to installation instructions.

Technical Data

Material: Steel
Surface: HCP

Type	Weight [kg/m]	Qty. [m]	Part number
T-Bar Solar OAL 3 mm HCP	6.31	1	**113168**





Strut STR Solar

Group: E400

Application

Strut as part of Sikla Ground Mount System for mounting Photovoltaic panels. Cost-effective ground mount system for large-scale PV plants. Substantial overall cost reduction due to the foundation technology based on pile-driven supports. On the one hand wind and snow loads are transfered into the soil by the friction between the post and the soil and on the other hand via the pressure at the peak end of the post due to compressed rocky soil inside the post, creating a safe foundation. The buckling resistant geometry of the section prevents torsional deformation of the posts in case of hitting obstacles during installation.
Selection, configuration and design of the structural system components are the result of the individual analysis of the project, which guarantee the most effective use of material.

Benefits:

- No soil sealing
- Extremely quick mounting time
- Simple assembly
- Prefabricated system
- Perfectly synchronised system components - only 6 parts required
- High durability due to excellent HCP surface protection
- Optimum utilisation of material resources
- Mounting time up to 1 km length per day
- Simple adjustment options during assembly by means of defined friciton
- Simple, cost-saving deconstruction

Installation

Fastening of T-Bar to the Post with Strut and screw connections according to installation instructions.

Technical Data

Material: Steel
Surface: HCP

Type	W [kg]	Quantity [pack]	Part number
Strut STR Solar OAL 3 mm HCP	5.38	1	**113166**

03/2015