





Sikla UK Limited
4 Canons Road
Canons Industrial Park
Milton Keynes
MK12 5TL
United Kingdom

Tel. + 44 (0)1908 227 406
Fax + 44 (0)1908 220 968
e-mail: miltonkeynes@sikla.co.uk
Web: www.sikla.co.uk

Your Distributor:

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Notes

Our service staff and application engineers will be pleased to offer you their assistance to answer your questions or to work out in cooperation with you specific solutions with the aid of our own planning software.

Unless otherwise stated, all load parameters refer to mainly dead static loads at ambient temperature. The indicated permissible loads should be regarded as nominal or working loads and, unless otherwise denoted, refer to the main direction of the respective load; breaking load values are not indicated.

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Sikla is a DIN ISO 9001 certified company

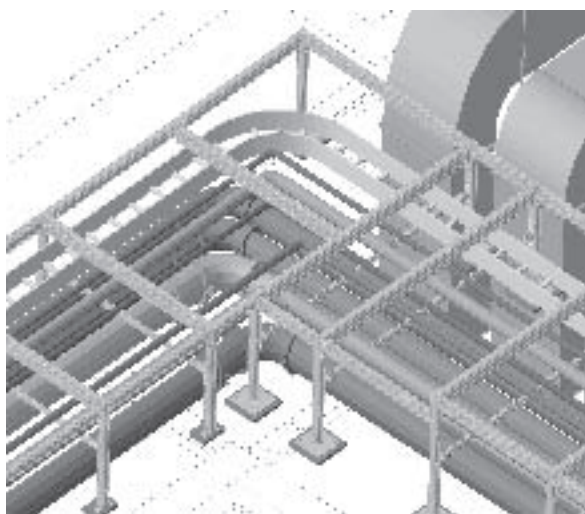
Ductwork Module



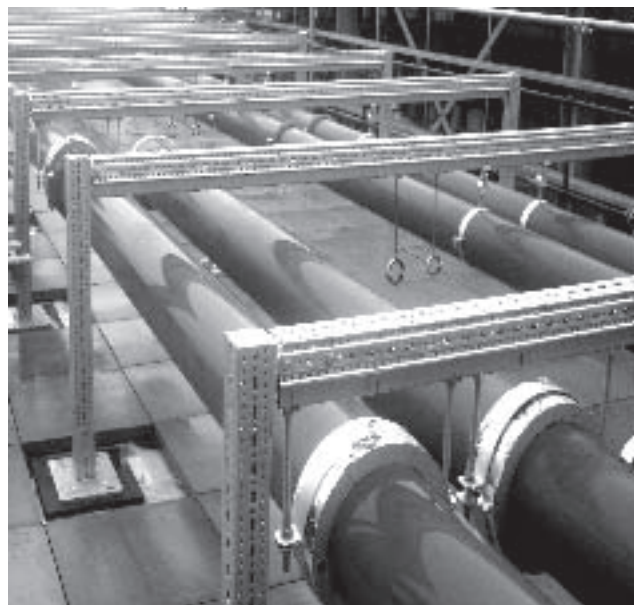
Plantroom



Drawings



Off-Site Assembly



Staircase



Beam Section TP F 80



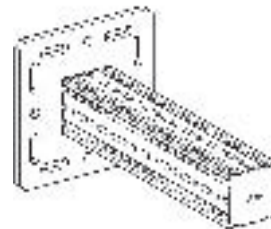
Page 1-3

Cantilever Bracket AK F 80



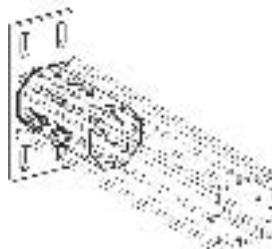
Page 1-4

Beam Bracket TKO F 80



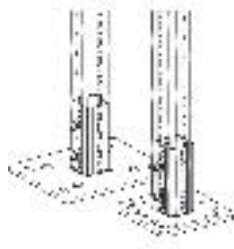
Page 1-5

End Support STA F 80



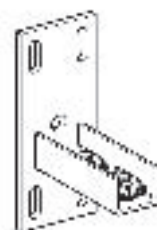
Page 1-6

End Support WBD F 80



Page 1-7

Channel Adapter SA F 80



Page 1-8

Self Tapping Screw FLS F 80



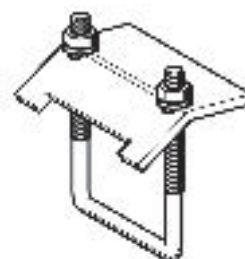
Page 1-9

Assembly Set P



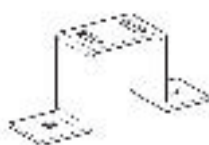
Page 1-10

U-Holder SB F 80



Page 1-11

Beam Section Holder TPH F 80



Page 1-12

End Cap ADK F 80



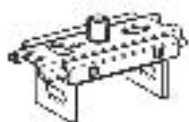
Page 1-13

Guiding Bracket FW F 80



Page 1-14

Slide Set GS F 80 2G



Page 1-15

Slide Set GS F 80



Page 1-16

Fixed Point Fastening FP F 80



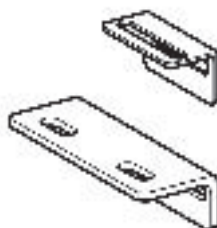
Page 1-17

Mounting Plate GPL F 80



Page 1-18

U Bolt Fastening F 80



Page 1-19

Threaded Tube GR

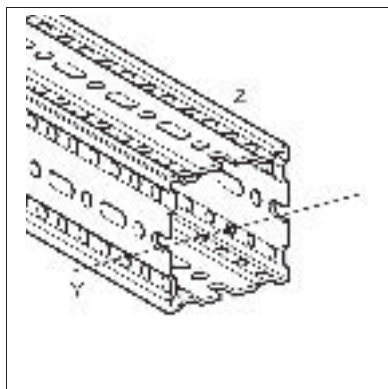
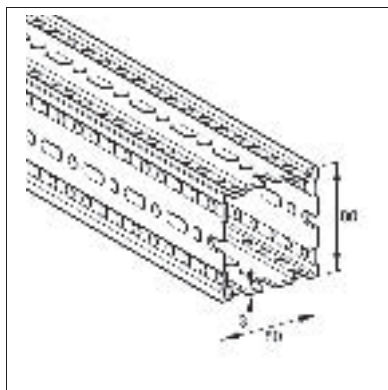
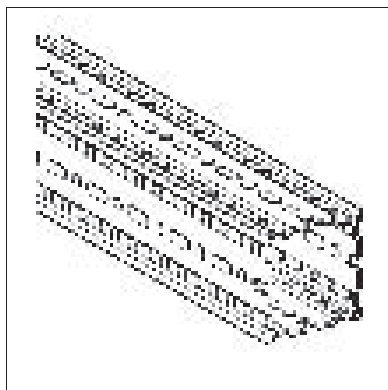


Page 1-20

Locking Nut NT



Page 1-20



Beam Section TP F 80

Group: A410

Application

Multi-function beam profile for horizontal, vertical and 3-D support structures in a wide variety of building and industrial applications.

In addition to the high torsional resistance achieved using a totally closed profile, structural elements and pipe supports can be attached on all 4 sides with virtually no placement restrictions. Specifically designed fixing holes combined with special FLS self-tapping screws ensure precise component placement and secure form-locked fixings.

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	15.87	Iy: 63.49 Iz: 63.49	Iy: 3.02 Iz: 3.02	80.0	6.95

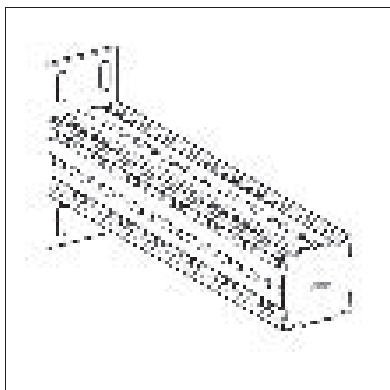
For all values the effect of holes and perforations have been taken into account.

Material: Steel, hcp

Approvals

MPA approved

Type	Weight [kg/m]	Qty./ [m]	Part number
TP F 80	6.4	6	192539



Cantilever Bracket AK F 80

Group: A420

Application

Ready-to-use element for mounting to Beam Section F 80 and Beam Bracket TKO F 80 or for construction of cross bars with respective connecting element.

Configuration

With pre-assembled End Cap ADK F 80

Installation

Interlocking connection to Beam Section F 80 by means of 4 Formlock bolts.

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

Configuration: Plate welded to Beam section F 80

Material:

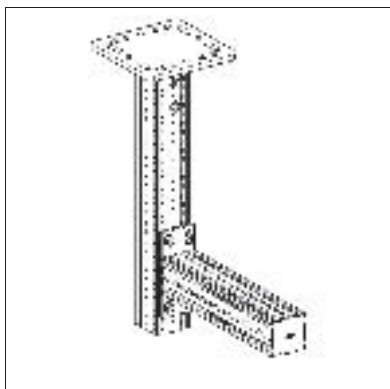
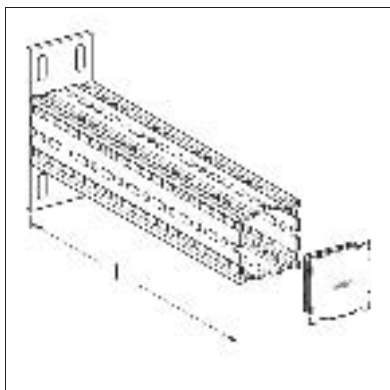
Plate Steel, hcp

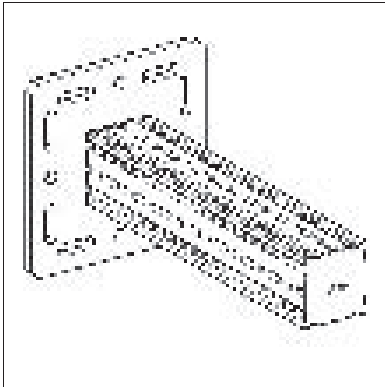
Beam section Steel, hcp

Approvals

MPA approved

Type	W [kg]	Quantity/ pack	Part number
AK F 80-400	3.4	1	192764
AK F 80-800	5.8	1	192771





Beam Bracket TKO F 80

Group: A423

Application

Ready-to-use element for mounting to walls, floors, and ceilings as well as to Simotec Systems 100 and 120 or for assembling crossbars with the respective connecting element.

Configuration

With pre-assembled End Cap ADK F 80.

Installation

Depending on the situation, different options are recommended:

- Fixing to building structure using 4 heavy duty anchors M12.
- Frictional connection to steel beams (flange width 80 - 120 mm) with Assembly Set P2.
- Interlocking connection to beams of System 100 or 120 by means of Bracket Plates FV 100/120.

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 F 80

Material:

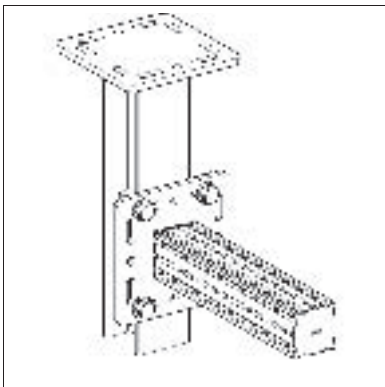
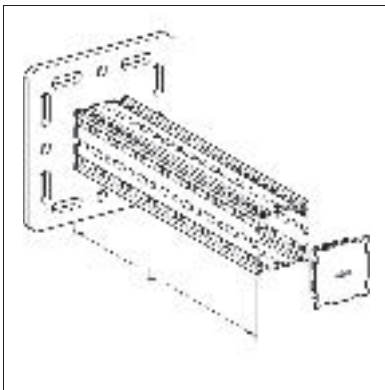
Base plate Steel, hcp

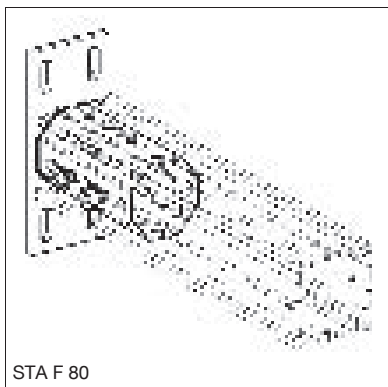
Beam section Steel, hcp

Approvals

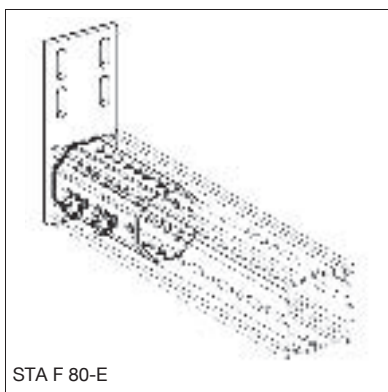
MPA approved

Type	W [kg]	Quantity/ pack	Part number
TKO F 80-400	6.6	1	192788
TKO F 80-800	9.2	1	192795

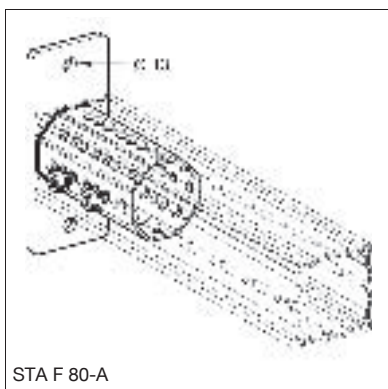




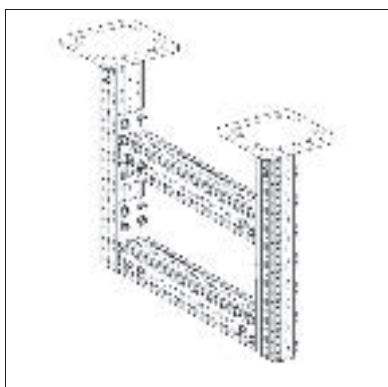
STA F 80



STA F 80-E



STA F 80-A



End Support STA F 80

Group: A422

Application

In connection with Beam Bracket, Cantilever Bracket or Beam Section F 80, the End Support STA F 80 enables the construction of crossbars, as well as further constructions.

The Version "A" is specially conceived for direct connection to cast-in channels built into the building structure.

Installation

Depending on the version, following mountings solutions are possible:

- Connection to Beam section F 80 with system elements by means of 4 Formlock bolts F 80.
- Screw connection with cast-in channel by means of appropriate T-head bolt or Channel nut with Hexagon bolt (Type "A").

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:

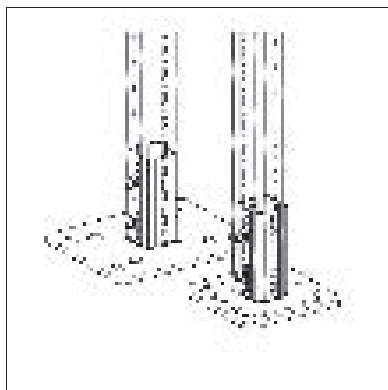
Plate Steel, hcp

Octagonal element Steel, hcp

Approvals

MPA approved

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



End Support WBD F 80

Group: A421

Application

End Support WBD F 80 is ideal for making supports for wall and floor mounting, as well as crossbars in conjunction with Beam section F 80.

Beside the direct connection to building structure, different base plates allow an immediate connection to various flange widths.

For crossbar constructions, version WBD F 80-T has to be used. The octagonal connection allows max. use of section width without interfering screws or plates.

Installation

Depending on the situation, different options are recommended:

- Fixing to building structure using 4 heavy-duty anchors M12 resp. M16
- Frictional connection to steel beams using Assembly Set P2, P3 or respective Beam clip.
- Form-locking connection to beam systems STF 100 or 120 using Bracket Plates FV 100/ 120.

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, hot-dipped galvanised

Square F 80

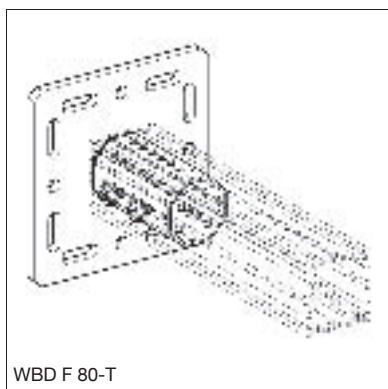
Steel, hot-dipped galvanised

Octagonal element F 80

Steel, hot-dipped galvanised

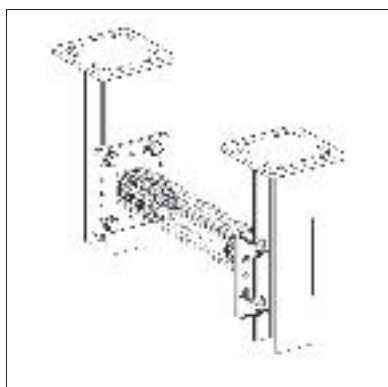
Approvals

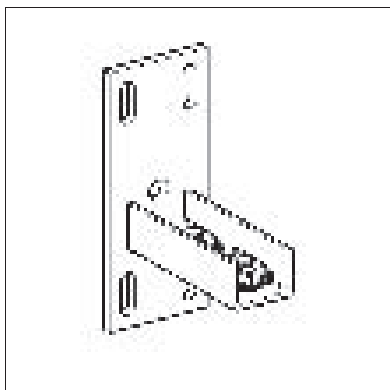
MPA approved



WBD F 80-T

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





Channel Adapter SA F 80

Group: A430

Application

Allows the compatibility of Sikla channels 41/41 or 41/41 D with Beam Section F 80. Simple construction of pipe lines or constructions, optionally with further parts of the Siconnect System. Thanks to the Pressix CC-Technology the channel can be connected directly to the Channel Adapter.

Installation

Interlocking connection to Beam Section F 80 by using 4 self-tapping screws F 80.

Technical Data

Type	Dimension of base plate [mm]	Slots in base plate
SA F 80-41	190 x 80 x 8	M10

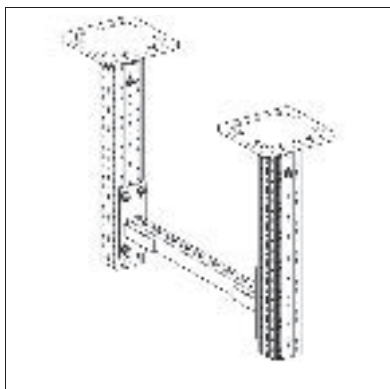
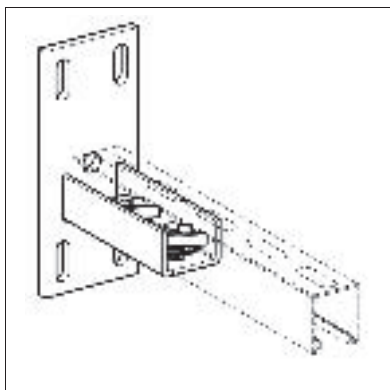
Configuration: Base plate welded to U-profile

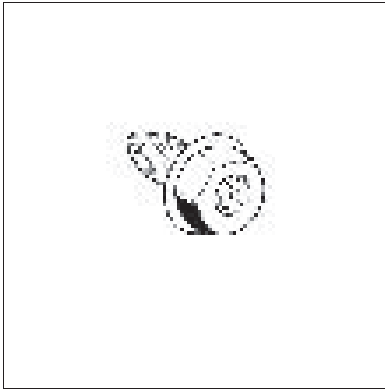
Material:

Plate Steel, hot-dipped galvanised

U-Profile Steel, hot-dipped galvanised

Type	W [kg]	Quantity/ pack	Part number
SA F 80-41	1.4	1	192887





Self Tapping Screw FLS F 80

Group: A430

Application

Threaded self-tapping screw for formlocking connection of Framo system components and Siconnect products to Beam Section F 80.

The beam section material is locally cold-hardened due to the non-cutting forming. The high resulting edge-covering and a threaded connection between self-tapping screw and beam section prevents from accidental unscrewing. During assembly process, the special interlocking prevents from overwinding.

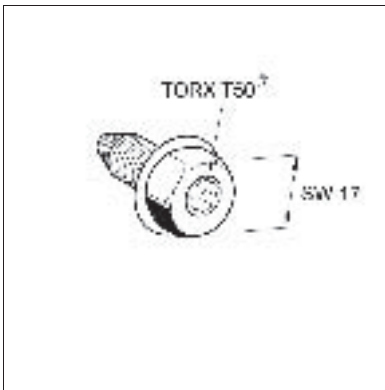
Technical Data

Type	Tightening torque [Nm]
FLS F 80	60

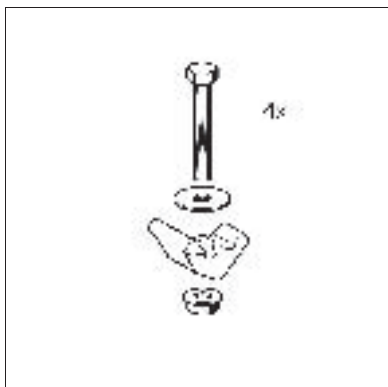
Material: Steel, HCP

Approvals

MPA tested



Type	W [kg]	Quantity/ pack	Part number
FLS F 80	0.02	100	192512



Assembly Set P

Group: A640

Application

Element for connecting Beam Bracket TKO, Angled Beam Bracket SKO or End Support WBD to a beam section.

Configuration

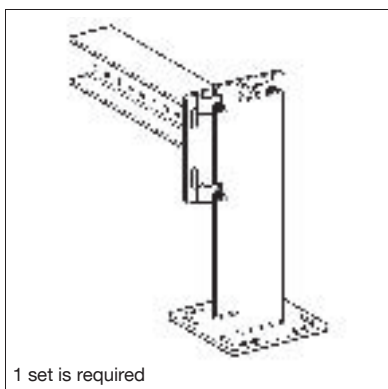
Type	Beam Clip [Qty.]	Hexagon bolt 8.8 [Qty.]	Washer [Qty.]	Hexagon nut [Qty]
Set P2	4 x P2	4 x M12 x 80	8 x 12/40	4 x M12
Set P3	4 x P3	4 x M16 x 100	8 x 16/125	4 x M16
Set P2/2	2 x P2	2 x M12 x 80	4 x 12/40	2 x M12

Installation

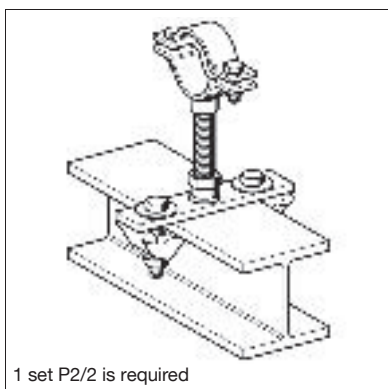
- The narrow ends of the Beam Clips must be fixed to the beam flange.
- Max. perm. torque of all M12 bolts: 85 Nm (Set P2)
- Max. perm. torque of all M16 bolts: 150 Nm (Set P3)
- Once post-tensioned, the hexagon bolts must not be re-used!

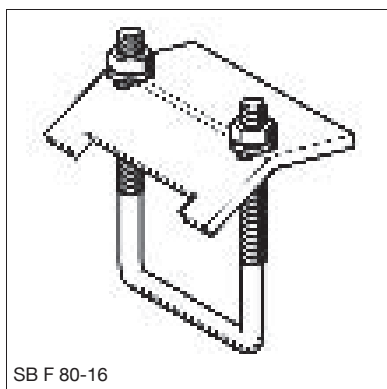
Technical Data

Material: Steel and cast iron, hot-dipped galvanised



Type	W [kg]	Qty. [set]	Part number
Set P2	1.6	1	168494
Set P3	2.1	1	179147
Set P2/2	0.8	1	183800





SB F 80-16

U-Holder SB F 80

Group: A430

Application

Connecting element for bilateral fixation of Beam section F 80, crossbars or cantilevers to steel beams.

Configuration

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

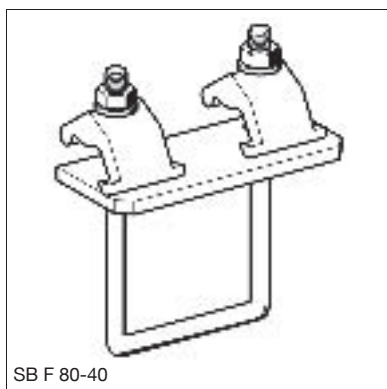
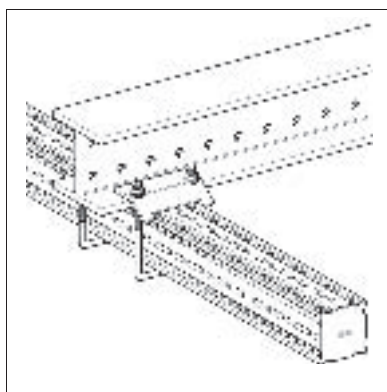
Installation

U-holder to be used in pairs.
Type 16 up to flange width 16 mm
Type 40 up to flange width 40 mm

Technical Data

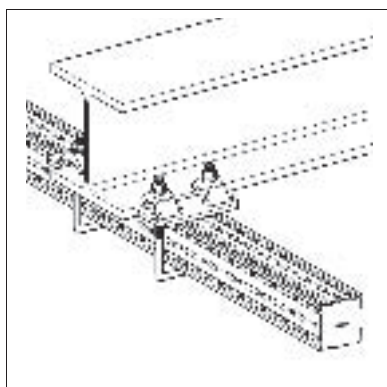
Material:

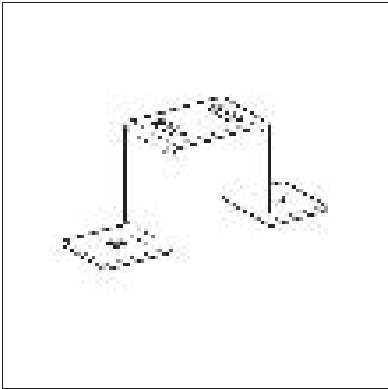
U-Holder	Steel, hot-dipped galvanised
Plate	Steel, hot-dipped galvanised
Beam clip	Steel resp. Cast Iron, hot-dipped galvanised
Nut/Washer	Steel, hot-dipped galvanised



SB F 80-40

Type	W [kg]	Quantity/ pack	Part number
SB F 80-16	0.6	20	192683
SB F 80-40	1.5	10	194010





Beam Section Holder TPH F 80

Group: A430

Application

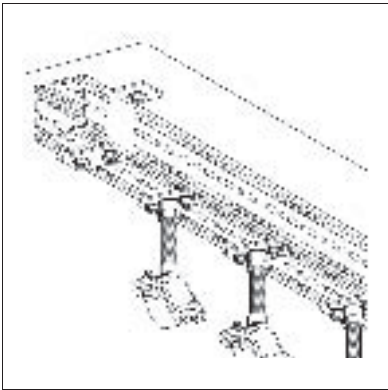
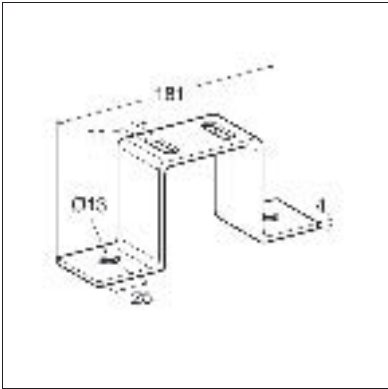
All-embracing, stiffening holder for Beam Section F 80

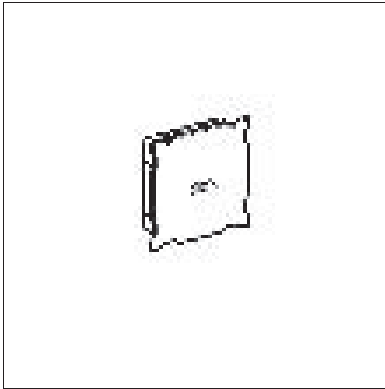
- directly on the provided support or
- directly to free-standing channels or channels set in concrete.

Technical Data

Material: Steel, HCP or hot dipped galvanised

Type	W [kg]	Quantity/ pack	Part number
TPH F 80	0.5	10	195765





End Cap ADK F 80

Group: A430

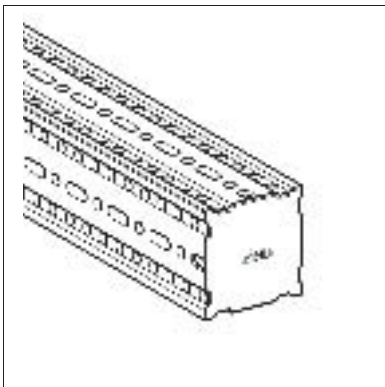
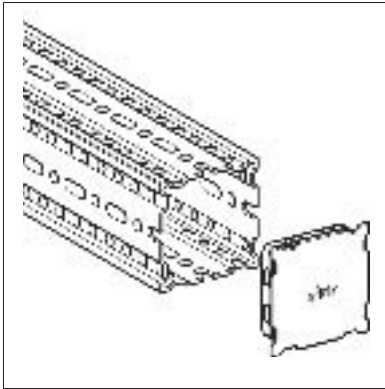
Application

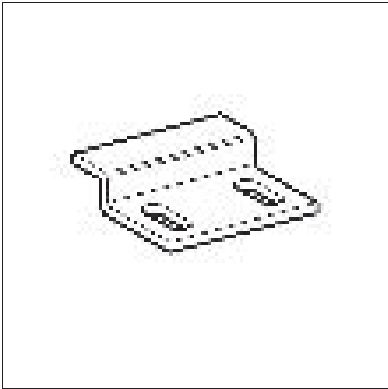
End cap for tidy closing the ends of Beam section F 80, Cantilever brackets, as well as Beam Brackets.

Technical Data

Material: PP, yellow

Type	W [kg]	Quantity/ pack	Part number
ADK F 80	0.02	25	192674





Guiding Bracket FW F 80

Group: A430

Application

Element for conversion of Simotec Sliding Supports to Guided Supports.

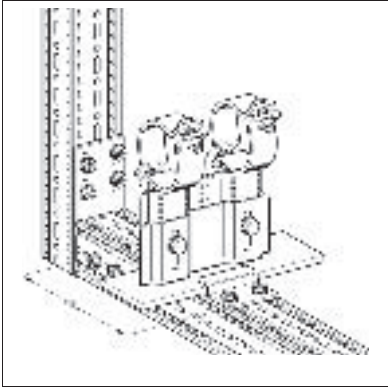
Configuration

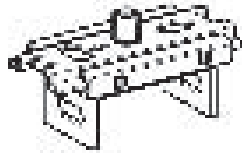
Set consisting of two Guiding Brackets.

Technical Data

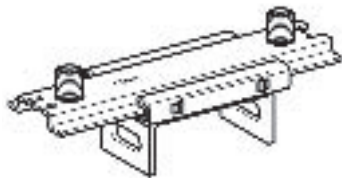
Material: Steel, hot-dipped galvanised

Type	W [kg]	Qty. [set]	Part number
FW F 80	0.5	20	192955

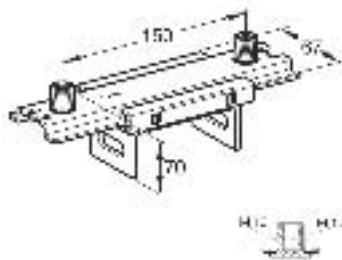




GS F 80 1-2G



GS F 80 2-2G



Slide Set GS F 80 2G

Group: A436

Application

Slide set for single or double mounting to Framo F 80 profile.
Variable connection possibilities with 2G-thread of the pipe clamp or in combination with respective adapter.

Installation

Fixing to Framo F 80 profil by means of Formlock Screw FLS 80.

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 1-2G	0.6	10	196700
GS F 80 2-2G	0.7	10	196717



GS F 80-1

Slide Set GS F 80

Group: A436

Application

Heavy-duty Slide Set for mounting to Beam Section F 80 or Sikla channel. $\frac{1}{2}$ " thread connection allows direct connection to pipe clamp Stabil I $\frac{1}{2}$ " by means of threaded tube without further adaption parts.

Configuration

Set of Slide Set, Slide Plate and 2 Guiding Brackets.

Installation

Fixing to Beam Section F 80 using 4 self-tapping 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)

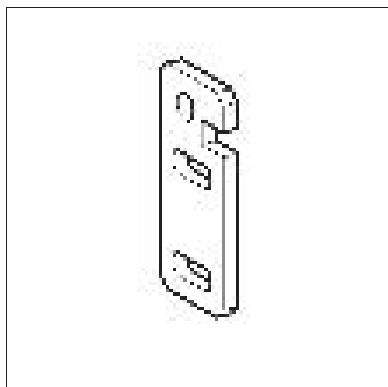
Material:
Metal components Steel, hot-dipped galvanised
Slide plate Polyamide PA 6.6
Guiding bracket Steel, hot-dipped galvanised

Type	W [kg]	Qty. [set]	Part number
GS F 80-1	1.1	10	192924
GS F 80-2	1.4	10	192917



GS F 80-2





Fixed Point Fastening FP F 80

Group: A430

Application

Element for direct attachment of Simotec Fixed Points to Beam Section F 80.

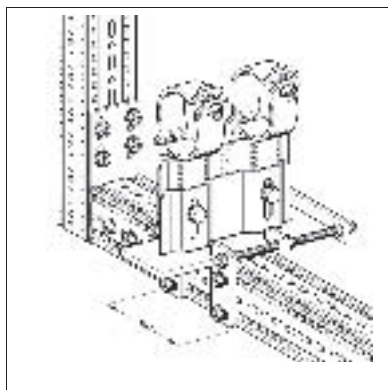
Configuration

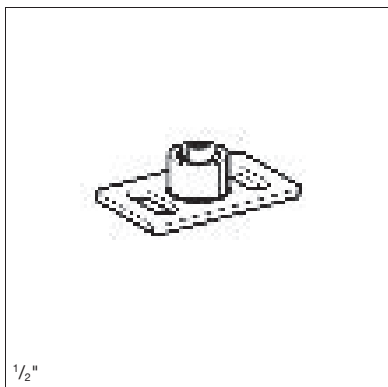
Set of 4 fastening plates and 4 Hexagon nuts M12.

Technical Data

Material: Steel, hot-dipped galvanised

Type	W [kg]	Qty. [set]	Part number
FP F 80	1.2	10	192894





Mounting Plate GPL F 80

Group: A430

Application

Element for fixation of pipe clamps to Beam section F 80 by means of threaded tube 1/2" or thread connection M16.

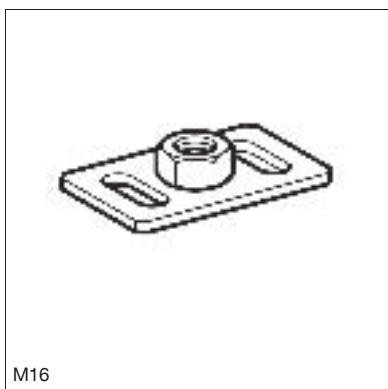
Installation

Interlocking connection to Beam section F 80 by using two self-tapping screws F 80.

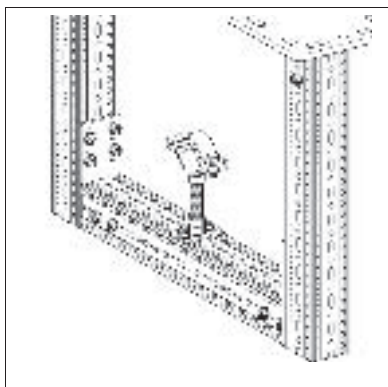
Technical Data

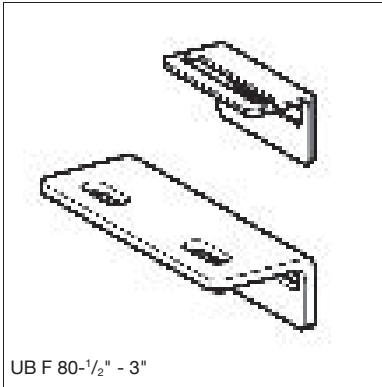
Type	Dimensions of base plate [mm]
GPL F 80-1/2"	80 x 50 x 4
GPL F 80-M16"	80 x 50 x 4

Material: Steel, hot-dipped galvanised



Type	W [kg]	Quantity/ pack	Part number
GPL F 80-1/2"	0.2	50	192900
GPL F 80-M16	0.2	50	195833





U Bolt Fastening F 80

Group: A430

Application

For simple fixation of U Bolts to Beam Section F 80.

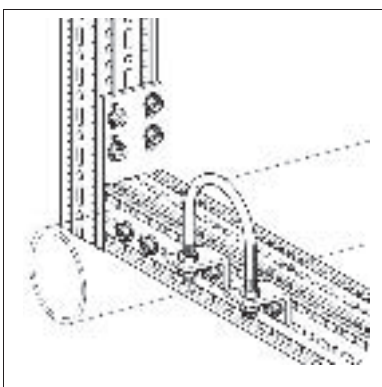
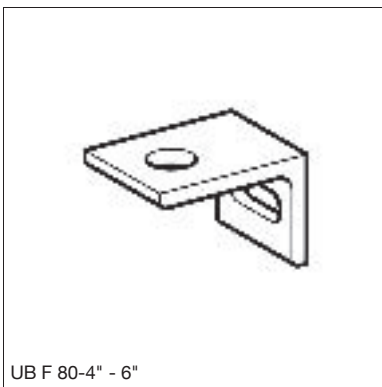
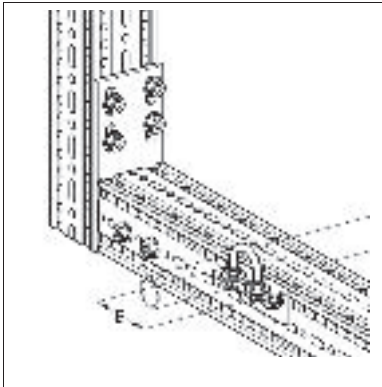
Configuration

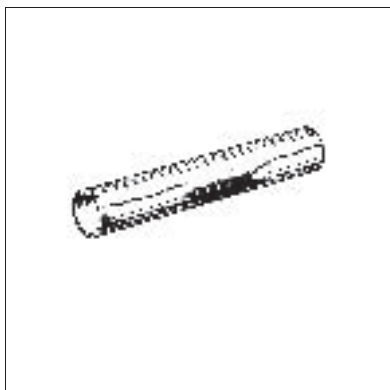
Type UB F80 - 4" to 6" (supplied as set)

Technical Data

Material: Steel, HCP or hot-dipped galvanised

Type	B [mm]	W [kg]	Quantity/ pack	Part number
UB F 80-1/2" - 1 1/2"	85	0.15	25	192931
UB F 80-2" - 3"	165	0.64	10	196212
UB F 80-4" - 6"	45	0.35	25 Sets	192948





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.

Configuration

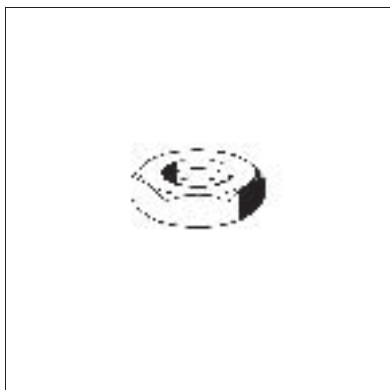
Standard length 2m. Shorter pre-cut parts available on request.

Technical Data

Due to the continuous thread, all values of parameters depending on the cross section are lower than typical EN 10255 threaded tube of the same size.

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

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