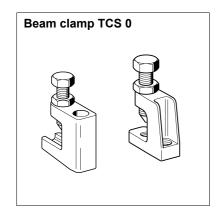
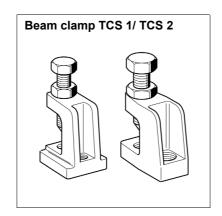
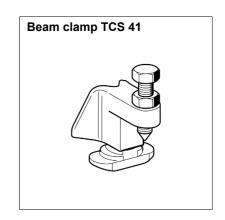


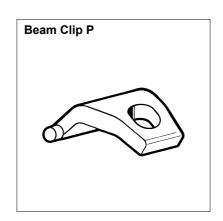
Products

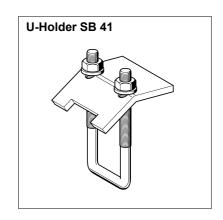




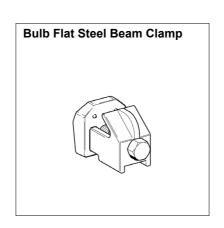


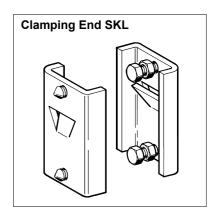


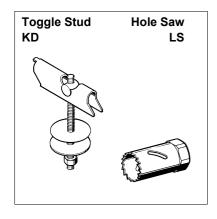




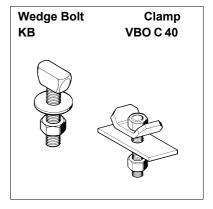






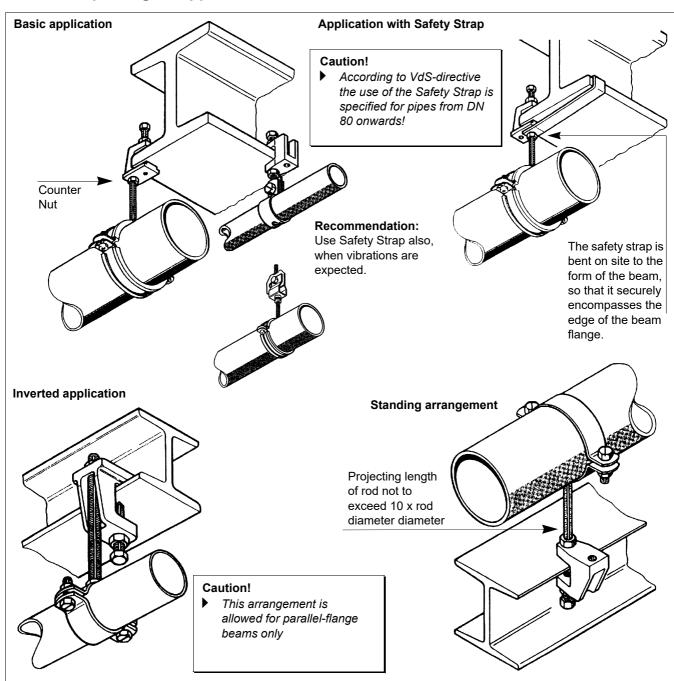


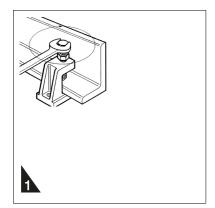


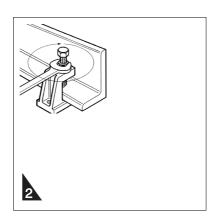




Beam Clamp - Single Support







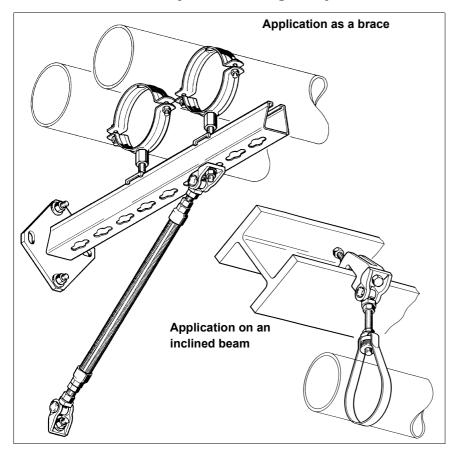
Caution!

► Take note of the torque: TCS 0: Rotate 1 revolution TCS 1 and TCS 2: Rotate min. 1 up to max. 1 1/2 revolutions. Then tighten locking nut.





Universal Joint for any variable Angle Adjustment



Braces can be installed with variable angles to their supporting surfaces. The combination with adapters allows for bracing arms with cross-sections up to Threaded Tube G1".

Application on an inclinded beam

The pivot head in the Universal Joint can rotate freely, allowing adjustment to any angle.

Tightening the locking nut against the adapter plate locks the position.

Caution!

In cases of dynamic loads it is necessary to secure the Beam Clamp TCS using a Safety Strap, possible in connection with another Beam Clamp TCS.

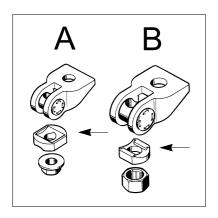
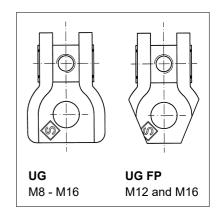
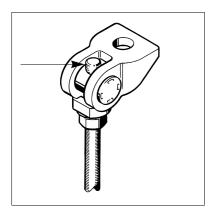


Figure A: Figure B:

Type: Type:
UG M8 UG M12
UG M10 UG M16
UG FP M12
UG FP M16

During installation, make sure the correct side of the adapter plate faces towards the body of the Universal Joint.





Note:

The Threaded Rod must be clearly visible after being screwed into the pivot head.

Note:

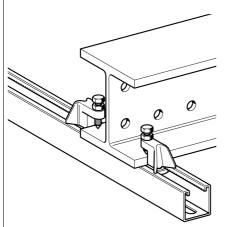
Refer to VdS CEA directives for the recommendation of supporting thread sizes for Sprinkler pipes.

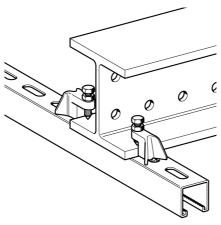
Nominal size (NW)	Thread
≤ DN 50	M 8
> DN 50 - ≤ DN 100	M10
> DN 100 - ≤ DN 150	M12
> DN 150 - ≤ DN 200	M16

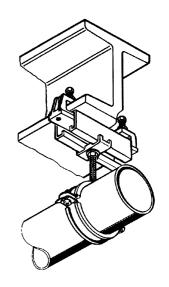


Beam Clamp TCS for Header Rails





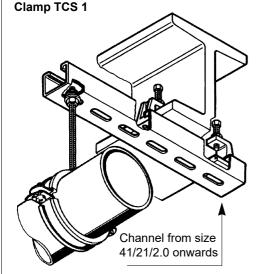


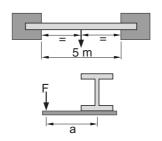


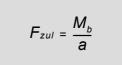
with Beam Clamp TCS 0; 1; 2

Beam clamps can attach into either the open face or rear slots of the channel, leaving the channel unobstructed for further installations.

Cantilever arrangement with Beam







 $\sigma_{perm} \leq 160 \text{ N/mm}^2$ $f_{perm} \leq 2 \text{ mm}$

Sample:

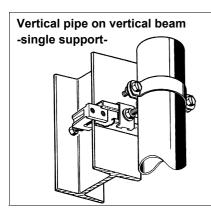
Beam shape IPB 160 and distance A = 50 cm

Note:

In cantilever arrangements, the permissible bending moment of the beam must not be exceeded.

Beam	permissible bending moment M _b [Nm]
IPB 100	50
IPB 140	115
IPB 160	180
IPB 200	310
IPB 240	540
IPB 300	970
IPB 340	1350

$$F_{perm} = \frac{180 \, Nm}{0.5 \, m} = 360 \, N$$



Caution!

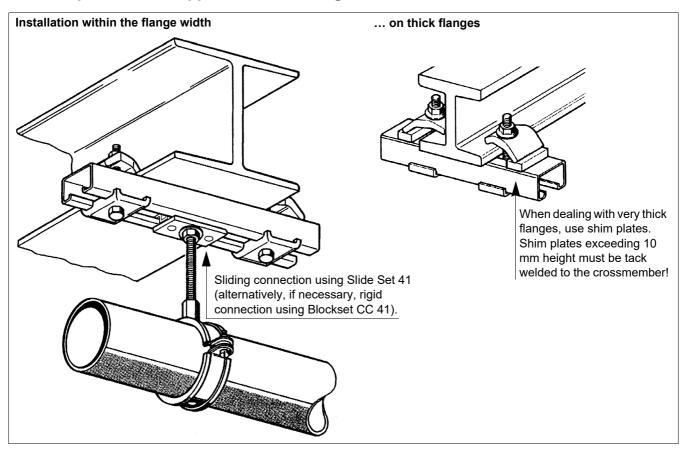
► T-Head Bolt and Holding Bracket must be used! This arrangement requires Sikla Channel 41/21 or larger. Check permissible loadings by referring to the catalogue!

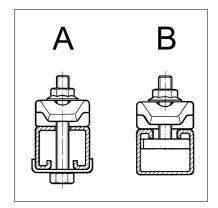
Horizontal pipe -twin mounting-

J



Beam Clip for Cross Support/ Dimensioning of Bolts





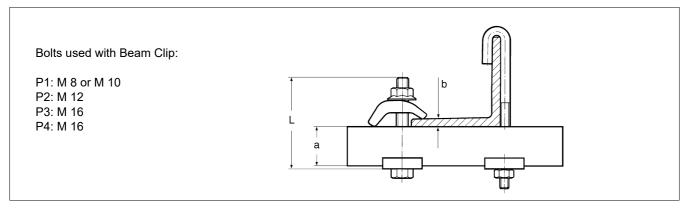
Installation

Arrangement A

Determination of the required bolt length Lmin:

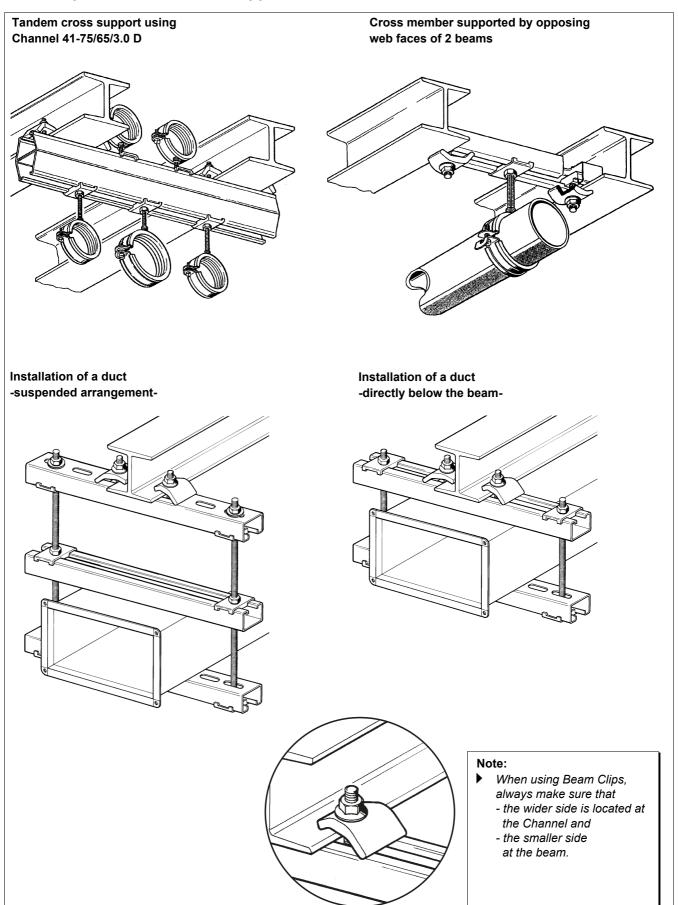
(with Hexagon Bolt)	(with T-Head Bolt)
P1: Lmin = a + b + 37 [mm]	P1: Lmin = b + 40 [mm]
P2: Lmin = a + b + 43 [mm]	P2: Lmin = b + 45 [mm]
P3: Lmin = a + b + 48 [mm]	P3: Lmin = $b + 50$ [mm]
$P4 \cdot 1 \text{ min} = a + b + 55 \text{ [mm]}$	$P4 \cdot 1 \min = h + 60 \text{ [mm]}$

Arrangement B





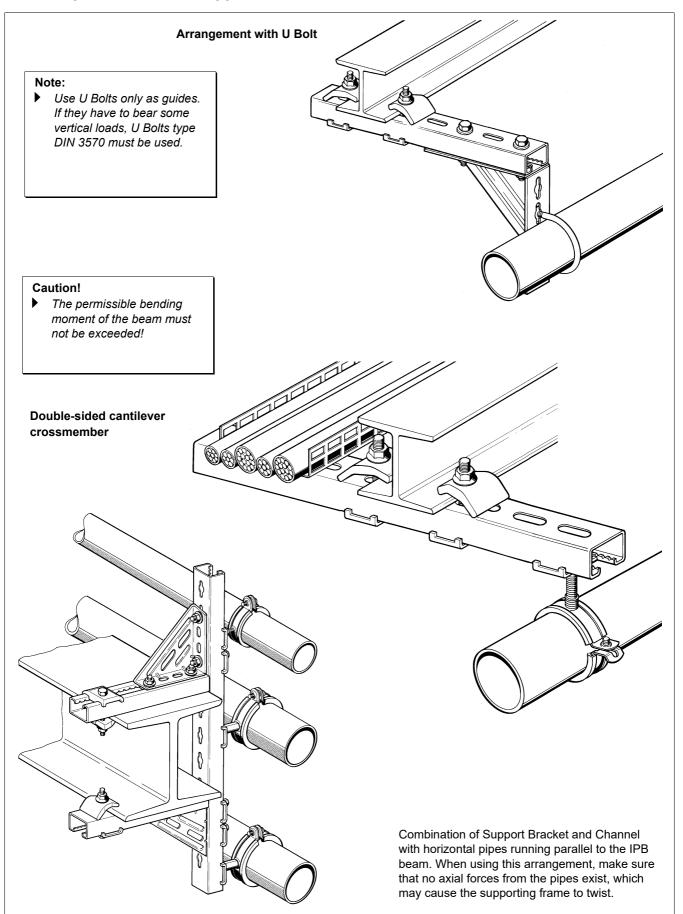
Beam Clip for Cross Member Support





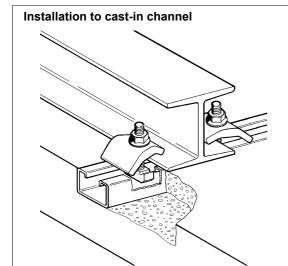


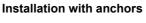
Beam Clip for Cantilever Support

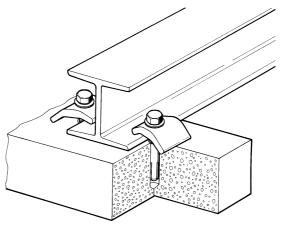




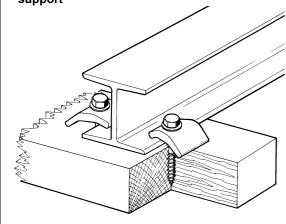
Beam Clip for Supports on Building Structures



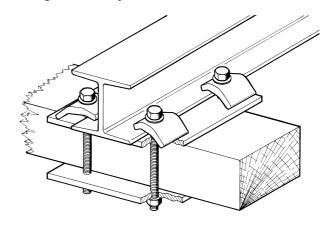




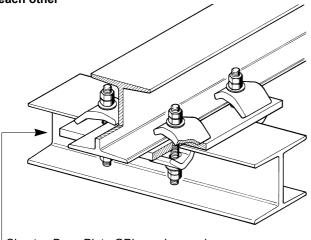
Installation on a timber support



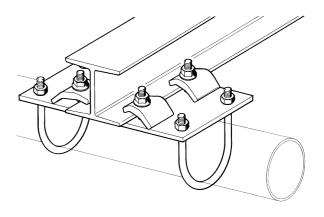
Fixing of a timber joist to a steel beam



Fixing two beams crossing each other



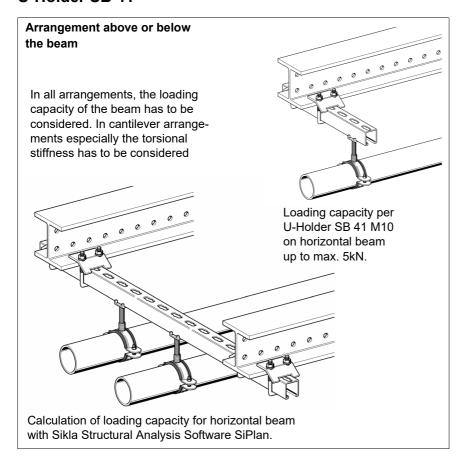
Pipe running directly below the beam



Simotec Base Plate GPL can be used between the two beams.



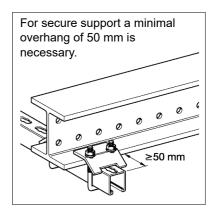
U-Holder SB 41

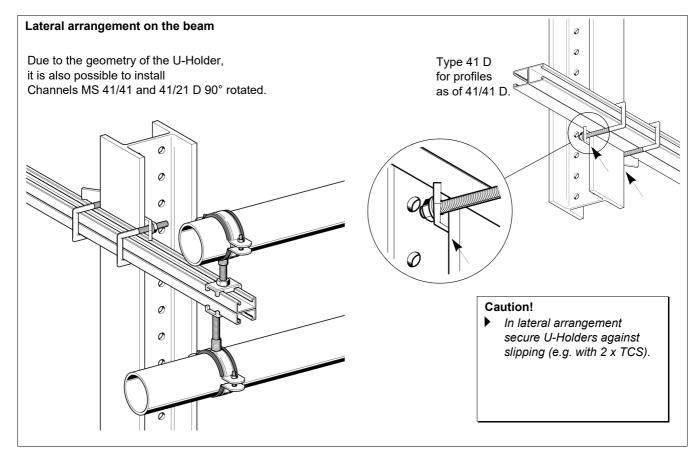


Direct installation of all rectangular single and double channels system 41 on steel beams with flange height up to max. 16 mm.

Note:

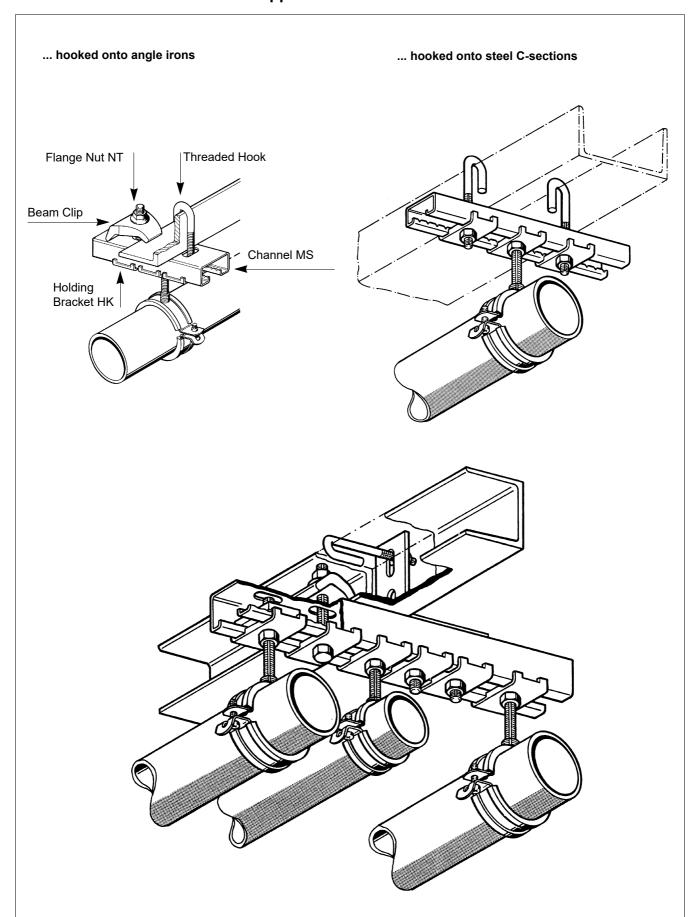
▶ U-Holder SB should always be used in pairs.







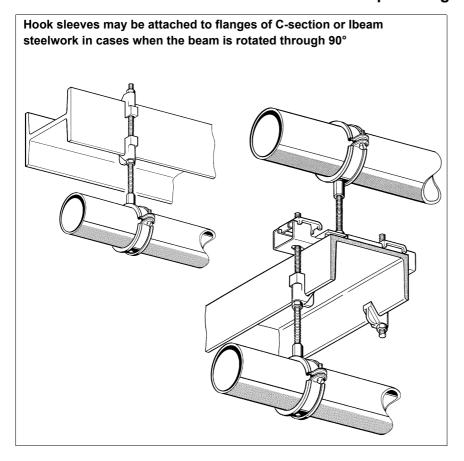
Threaded Hooks GH for Cross Supports







Hook Sleves SP and Bulb Flat Steel Beam Clamp for single supports

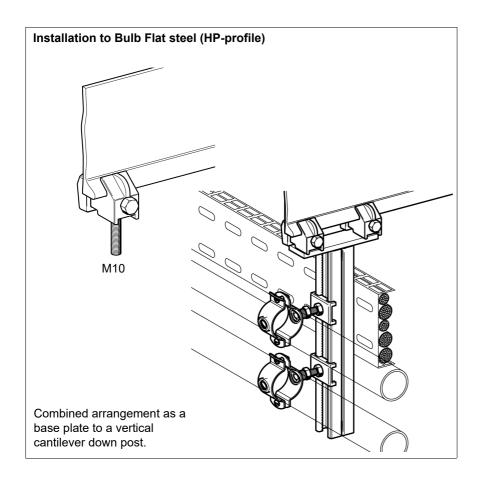


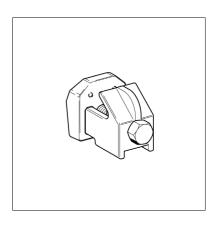


The Threaded Hook has a hole Ø13mm and is therefore suitable for Threaded Rods GST M8, M10, M12. If used with a M8 Threaded Rod, a Flange Nut NT is required.

Caution!

The load values stated in the catalogue refer only to the Hook Sleeves. The load capacities of the supporting beam or building structure must be checked separately.

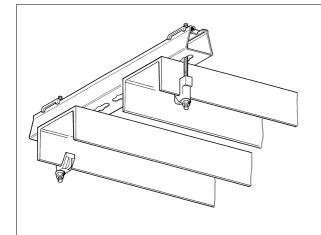


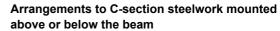


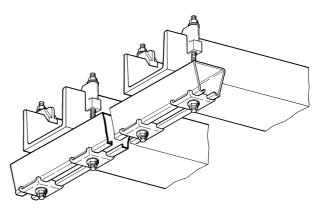
The Bulb Flat Beam Clamp is a solid connection element to fix pipework and electrical containment services to bulb flats HP (80 x 6 up to 160 x 6).

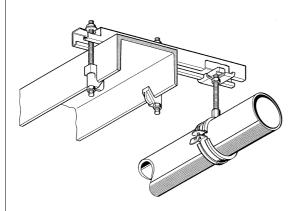


Hook Sleeves and Bulb Flat Beam Clamp for bracket installation





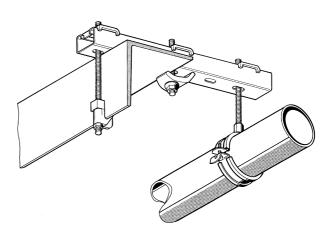


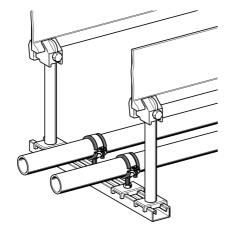


Cantilevers to C-section steelwork or angle irons

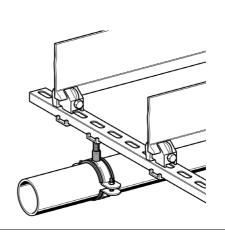


In cantilever arrangements, the permissible bending moment of the supporting beam must not be exceeded.





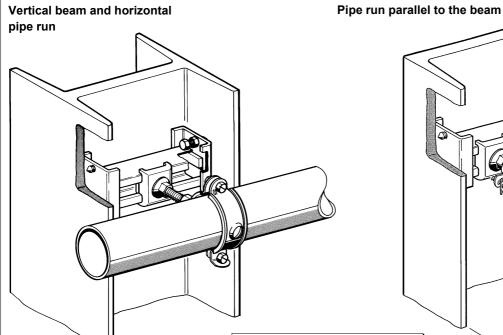
Suspended header rail to bulb flat steel (HP-profile).







Clamping End set SKL for Installation to I-beam and C-section profiles between flanges



Note:

▶ Each Clamping End set SKL consists of two identical clamping plates. The support Channel between the end plates has to be cut to length on site.

Fix the SKL set as deep as possible within the beam profile.

Note:

▶ Bolting torque: min. 1 up to max. 1 1/2 rotations

Lock after tightening!

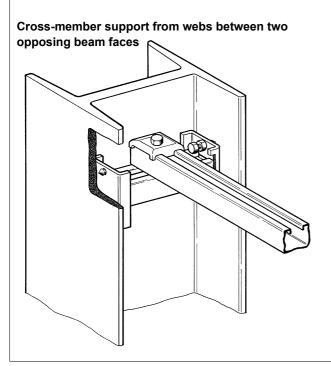
Caution!

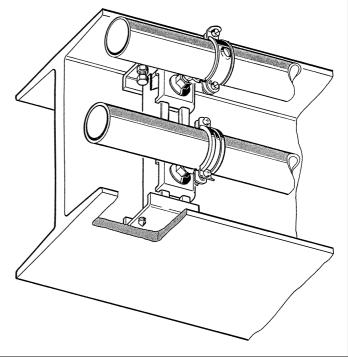
Excess tightening of the point screws may result in deformation of the beam. Cutting length of the Channel = A - 25 mm

A = clearance between the flanges

Suitable for beams with A = 150 ... 800 mm

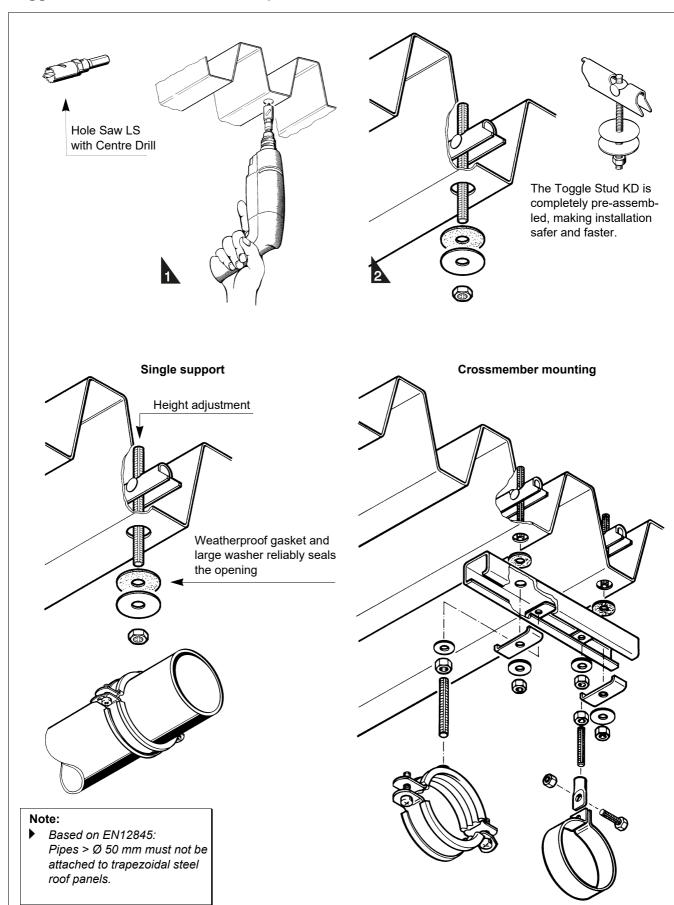
To be used in combination with Channels 41/41/2.5 or 41/45/2.5 and Holding Brackets HK 41.







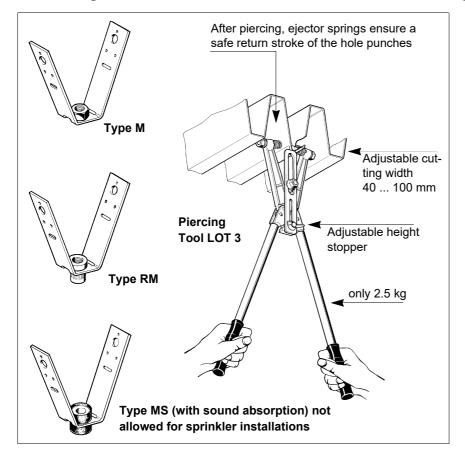
Toggle Stud KD for Installation to profiled Metal Decks







Roof Hangers TRH for Installation to Profiled Metal Decking



Note:

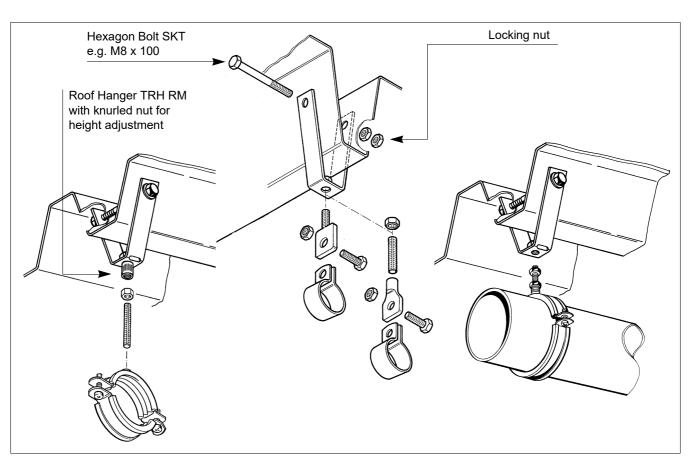
Based on EN12845: Pipes > Ø 50 mm must not be attached to trapezoidal steel roof panels.

Height of perforation does not affect the loading capacity of the Roof Hanger TRH.

The greater the distance between the perforation and the bottom edge of the profile, the greater the stability of the Metal Decking Sheet.

Note:

According to the VdS guidelines for sprinkler installations, all bolting has to be locked, e.g. with a locking nut at the horizontal bolt.





Fixing to Holorib and Cofrastra composite floors

