



The Type F3 has a large clamping range to suit various flange thicknesses (see page 56).

Support Fixings

pages 52 - 61

Easy-to-install connections for suspending building services from structural or secondary beams. Typical applications include supporting HVAC equipment, pipe work, fire protection and sprinkler systems. Adjustable to allow a fast and precise alignment of building services.



Type FLS
page 53



Type FL
page 54



Type LC
page 55



Type SW
page 55



Type F3
page 56



Type SH
page 57



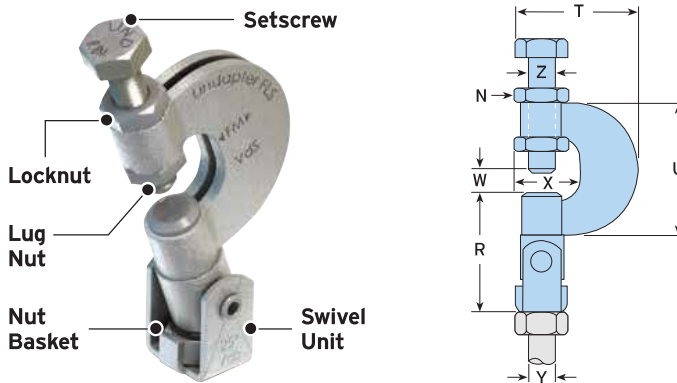
Type HW/HC
page 57



Purlin Clips
page 58-60

Type FLS

A versatile flange clamp with a swivel unit for inclined applications. Supplied with a high tensile setscrew for a secure grip on both parallel and tapered flanges.

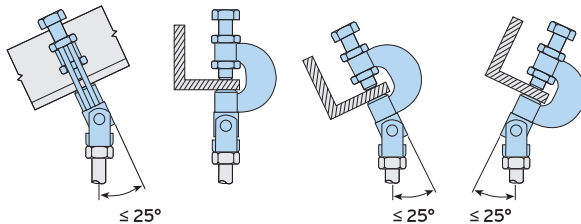


Material: High grade alloy steel, zinc plated.

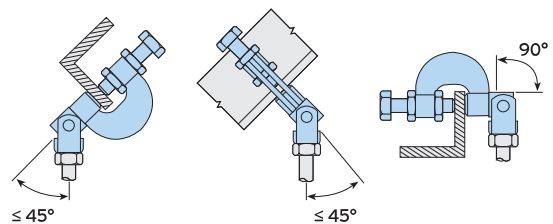


Product Code	Rod Y	Safe Working Load (4:1 Factor of Safety)		Clamping Range W mm	Setscrew Z	Tightening Torque		Dimensions				
		Tensile $\leq 25^\circ$	Tensile 25° to 45°			Setscrew Z	Locknut N	R	T	U	X	Width
		kN	kN			Nm	Nm	mm	mm	mm	mm	mm
FLS08	M8	2.5	1.5	3 - 17	M10	18	18	55	53	58	27	28
FLS10	M10	2.5	1.5	3 - 17	M10	18	18	55	53	58	27	28

Independently Approved Applications



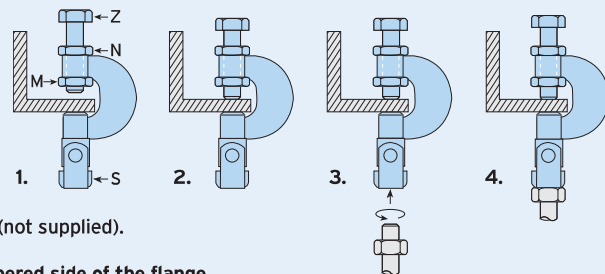
General Applications (Parallel Flanges only)



How to install...

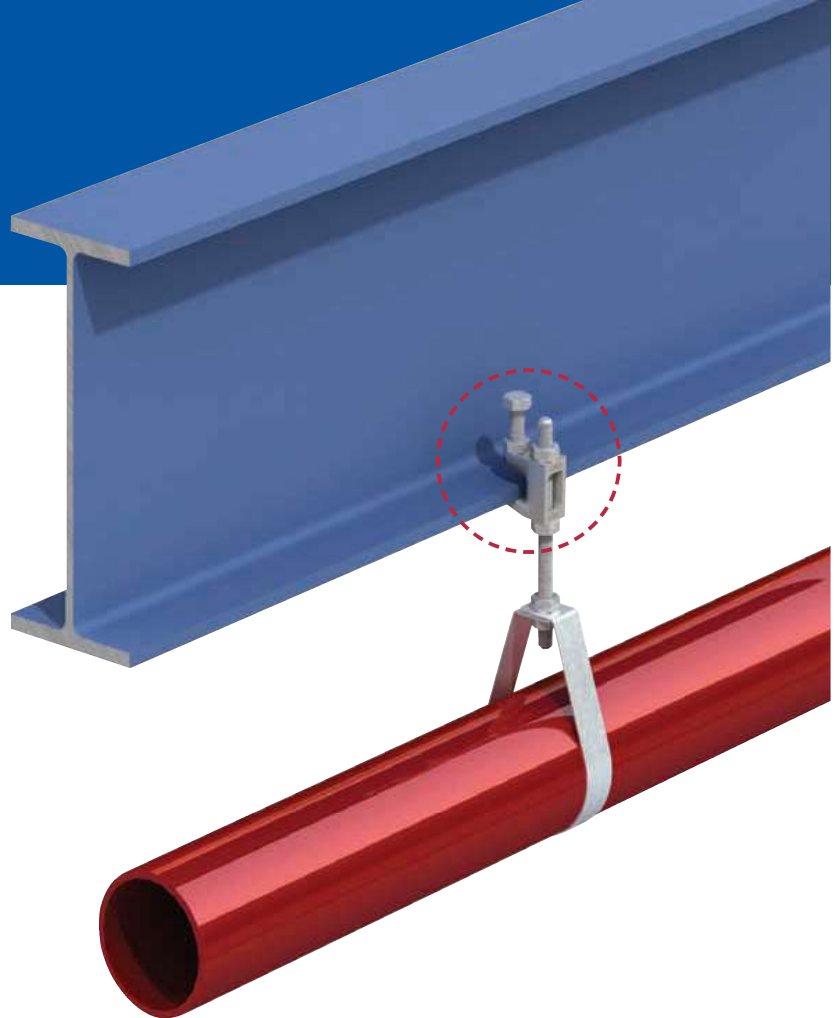
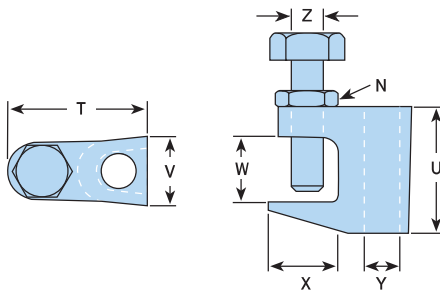
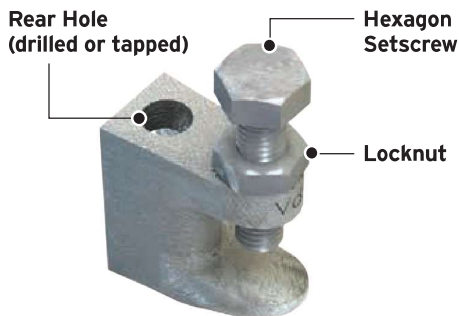
- 1) Locate the FLS onto the flange.
- 2) Ensuring the lug nut (M) locates into the main body, tighten down the setscrew (Z) and locknut (N).
- 3) Install the threaded rod by screwing into the nut located in the nut basket (S). Ensure full thread capture.
- 4) Secure assembly in nut basket (S) from beneath using a nut (not supplied).

➤ Ensure that the cup point setscrew always grips on the tapered side of the flange.



Type FL

FM and VdS approved flange clamp for use with parallel or tapered flange beams, supplied with the rear hole drilled or tapped.



Material: Malleable iron, zinc plated.

Product Code		Clear Hole Ø Y mm	Tapped Thread Y	Safe Working Load (4:1 FOS) Tensile kN	Clamping Range W mm	Setscrew Z	Tightening Torque		Dimensions			
Clear	Tapped						Setscrew Z Nm	Locknut N Nm	T mm	U mm	X mm	Width V mm
FL106D	FL106T	7	M6	1.1	3 - 17	M8	8	11	36	35	20	19
FL108D	FL108T	9	M8	1.1	3 - 17	M8	8	11	36	35	20	19
FL210D	FL210T	11	M10	2.4	3 - 19	M10	8	22	45	40	22	22
FL312D	FL312T	13	M12	3.1	3 - 23	M10	8	22	50	46	28	25
FL412D	FL410T	13	M10	3.1	3 - 28	M10	8	22	53	51	27	26

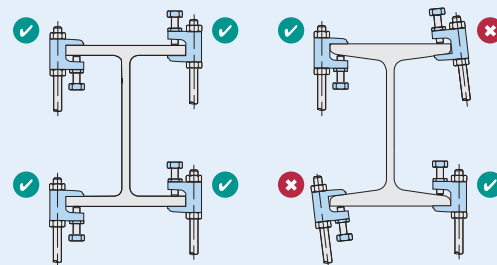
➤ The Type FL can be used with Type SW (page 55) when connecting to inclined sections.



How to install...

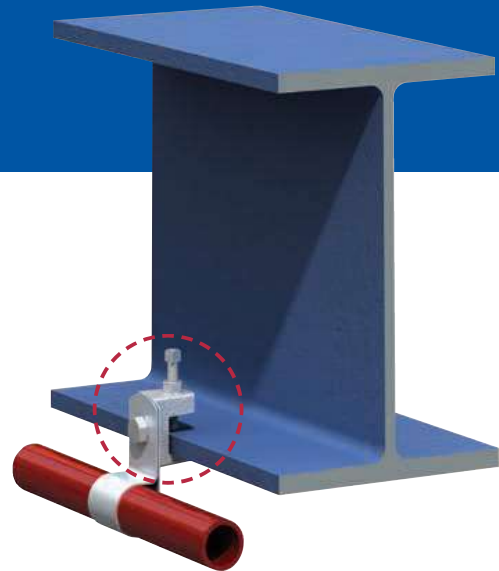
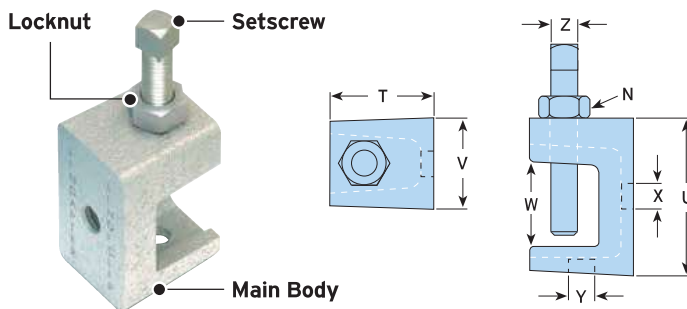
- 1) Slide the Type FL onto the beam flange and tighten setscrew to the recommended torque. As a guide, tighten the setscrew finger tight and then apply an additional quarter turn (90°) with spanner.
- 2) Tighten the locknut (N) to the recommended torque.

➤ On tapered flanges, the cup point setscrew has to grip on the inside of the flange.



Type LC

A flange clamp for parallel or tapered flanges with tapped holes to accept threaded rod or cable clips. Supplied with a high tensile cup point setscrew.



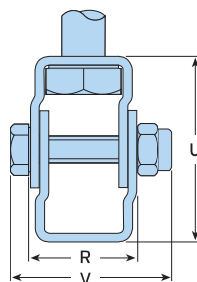
Material: Malleable iron, zinc plated.

➤ Installation is the same as Type FL (page 54).

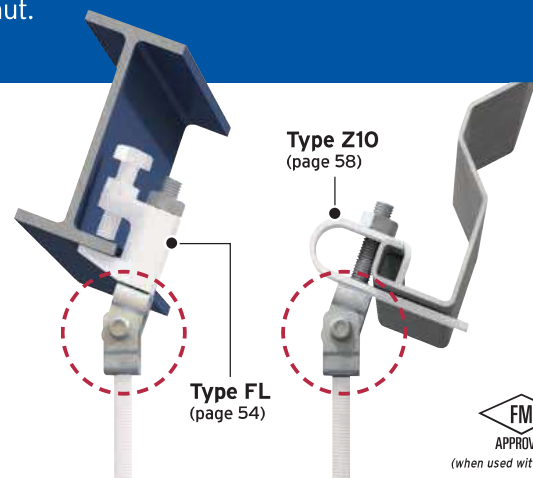
Product Code	Thread		Safe Working Load (4:1 Factor of Safety)		Clamping Range W mm	Setscrew Z	Tightening Torque		Dimensions		
	X	Y	Tensile in Position X kN	Tensile in Position Y kN			Setscrew Z Nm	Locknut N Nm	T mm	U mm	Width V mm
LC06	M6	M6	0.18	0.59	3 - 20	M6	4	4	25	36	21
LC08	M8	M8	0.18	0.59	3 - 20	M6	4	4	25	36	21

Type SW

A swivel unit for applications on inclined beams complete with a M10 x 90mm (property class 8.8) setscrew and nut. Can be supplied with Type FL or Type Z10.



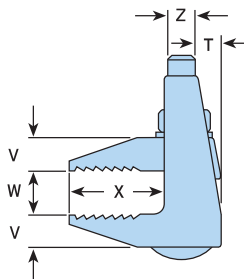
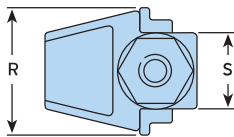
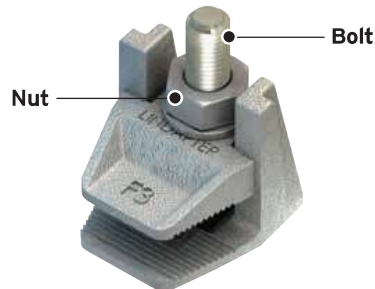
Material: High grade alloy steel, zinc plated.



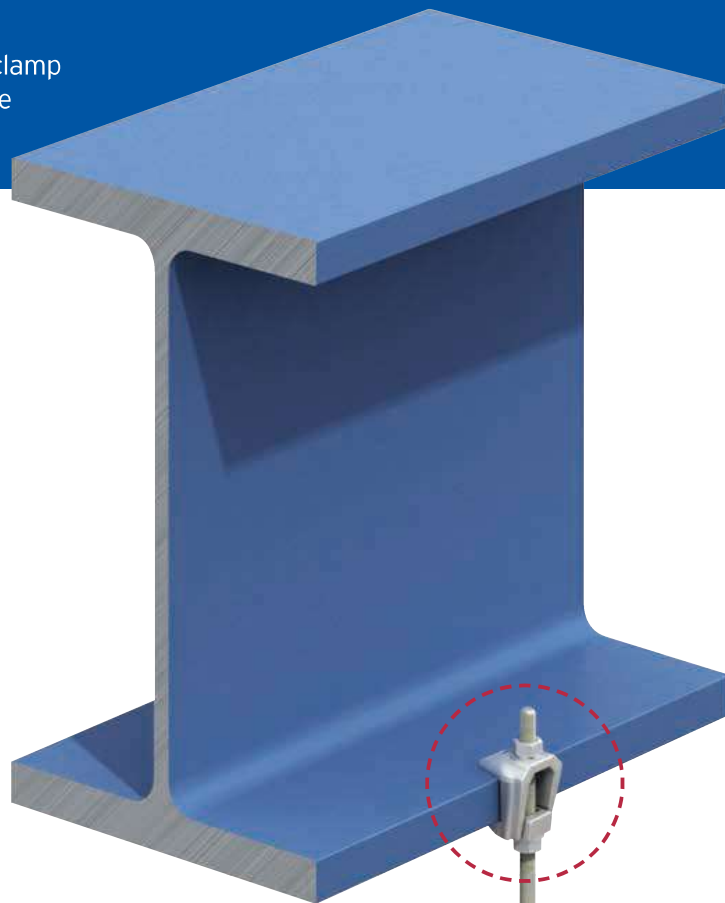
Product Code	Rod	Safe Working Load (4:1 FOS)	Maximum Inclination	Rotation	Tightening Torque Nm	Dimensions		
		Tensile kN				U mm	R mm	Width with Bolt V mm
SW10	M10	2.4	18°	360°	11	45	25	35

Type F3

An FM approved, high strength flange clamp with a large clamping range. Compatible with drop rods and J bolts.



For heavier loads or wider clamping range, please see the Type F9 on page 24.



Material: Malleable iron, hot dip galvanised.

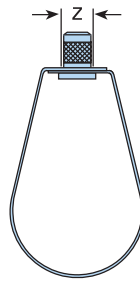
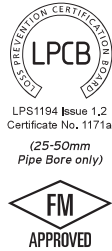
Product Code		Bolt 4.6 Z	Safe Working Load (4:1 Factor of Safety) Tensile kN	Clamping Range W mm	Tightening Torque Nm	Dimensions				
With Bolt	Without Bolt					S	T	V	X	Width R
						mm	mm	mm	mm	mm
F308NC	F308NB	M8	0.9	2 - 25	6	19	6	8	20	33
F310NC	F310NB	M10	1.2	2 - 30	20	22	7	10	25	38
F312NC	F312NB	M12	2.0	2 - 40	39	29	9	12	35	49
F316NC	F316NB	M16	4.0	3 - 55	93	36	12	16	46	60
F320NC	F320NB	M20	6.0	5 - 70	177	44	15	19	55	76

➤ For parallel flanges only. Supplied with or without bolt.

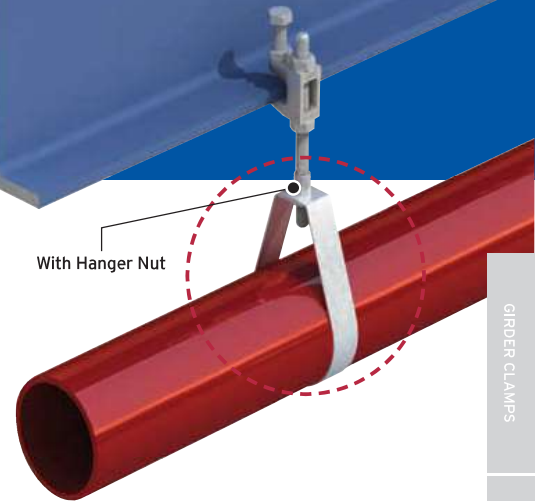
Type SH

A strap hanger with LPCB and FM approval for use in fire sprinkler installations. Supplied with or without a hanger nut. Can be used with all Lindapter flange clamps.

Hanger Nut



With Hanger Nut



Material: Pre-galvanised strip.

WITHOUT HANGER NUT			
Code	Pipe Bore mm	Rod Z	Hole Ø mm
SH025	25	M8 or M10	11
SH032	32	M8 or M10	11
SH040	40	M8 or M10	11
SH050	50	M8 or M10	11
SH065	65	M8 or M10	11
SH080	80	M8 or M10	11
SH100	100	M8 or M10	11
SH125	125	M12	13
SH150	150	M12	13
SH200	200	M16	18

WITH HANGER NUT			
Code	Pipe Bore mm	Rod Z	Hole Ø mm
SH025N	25	M8 or M10	14
SH032N	32	M8 or M10	14
SH040N	40	M8 or M10	14
SH050N	50	M8 or M10	14
SH065N	65	M8 or M10	14
SH080N	80	M8 or M10	14
SH100N	100	M8 or M10	14
SH125N	125	M12	17
SH150N	150	M12	17
SH200N	200	M16	21.5

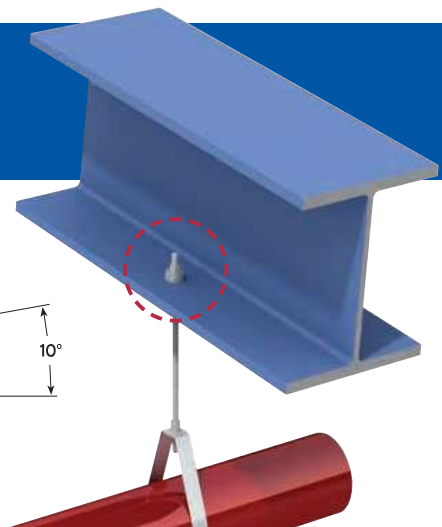
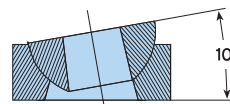
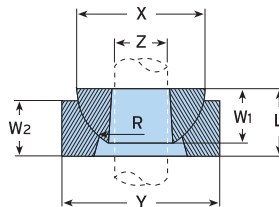
Type HW / HC

For vertical suspension on angled surfaces of up to 10° swing either side of the vertical.

Washer



Cup



Material: Malleable iron, zinc plated / hot dip galvanised.

Product Code			Hemispherical Washer		Hemispherical Cup		Hemispherical Washer & Cup	
Hemispherical Washer (can be used without cup)	Hemispherical Cup	Rod Z	X	W ₁	Y	W ₂	R	L
			mm	mm	mm	mm	mm	mm
HW10	HC10	M10	25	12	32	12	13	14
HW12	HC12	M12	29	12	35	12	14	16
HW16	HC16	M16	34	16	41	16	17	19
HW20	HC20	M20	44	19	54	19	22	24

Type Z10

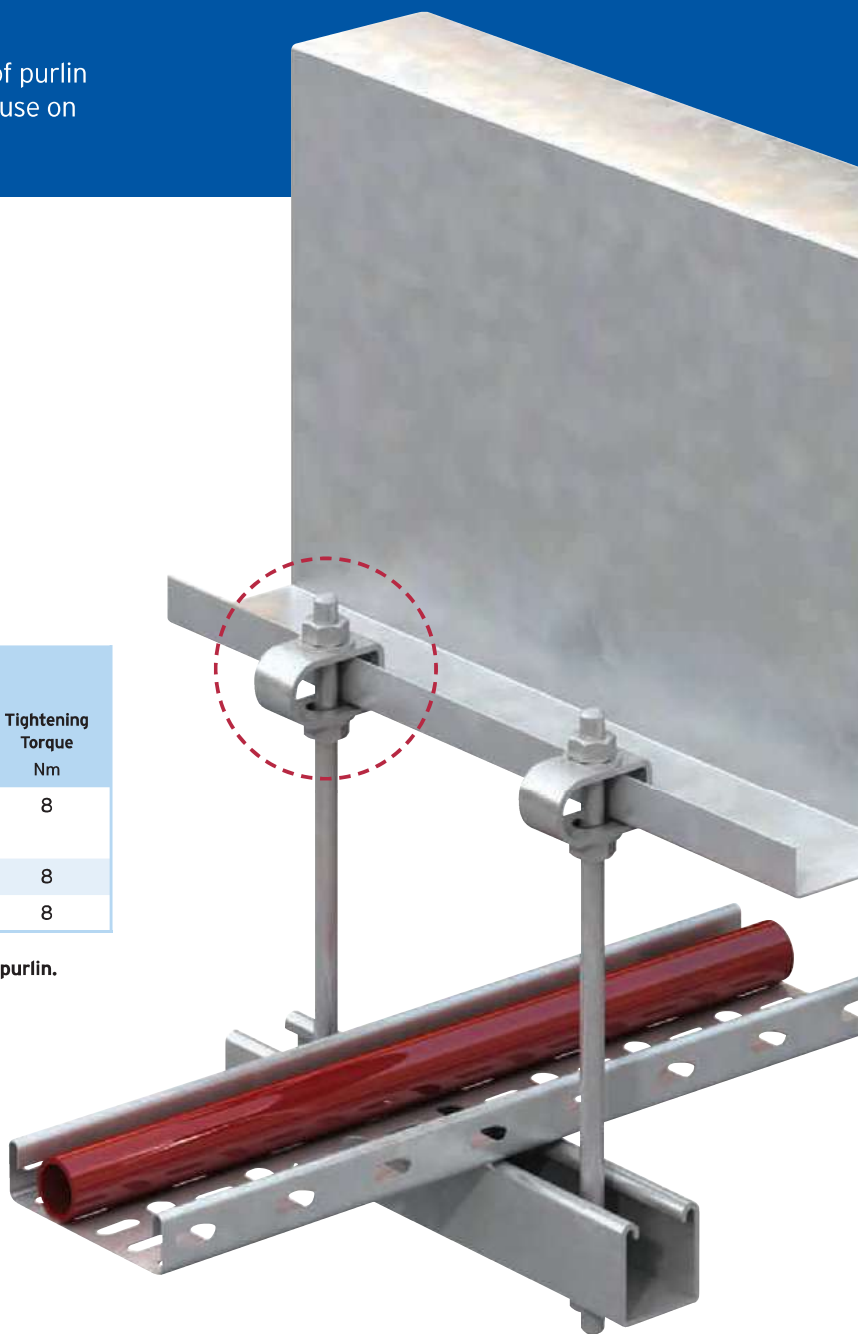
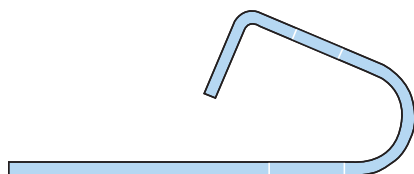
A purlin clip designed to suit a large range of purlin sections. Can be used with the Type SW for use on inclined purlins (see page 55).



Material: Mild steel, zinc plated.

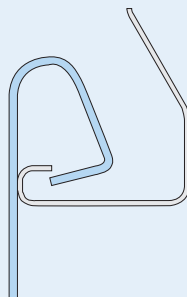
Code	Purlins	Rod	Safe Working Load (3:1 FOS) Tensile kN	Tightening Torque Nm
Z10	Kingspan Multibeam 2 & 3	M10	0.2	8
Z10	Metsec	M10	0.1 - 0.2	8
Z10	Zeta	M10	0.15	8

➤ Safe working loads are subject to the strength of the purlin. Please refer to the purlin manufacturer's literature.

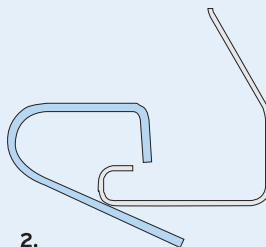


How to install...

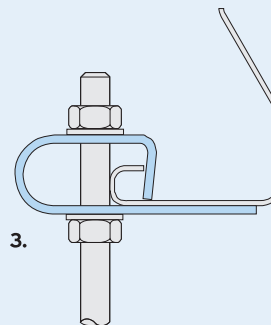
1.



2.

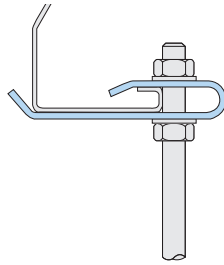


3.



Type HCW30

A purlin clip suitable for horizontal purlins.



Material: Pre-galvanised strip.

Code	Purlin	Rod	Safe Working Load (3:1 FOS)	
			Tensile kN	Tightening Torque Nm
HCW30	Kingspan Multibeam 3	M10	0.2	8

➤ Safe working loads are subject to the strength of the purlin. Please refer to the purlin manufacturer's literature.

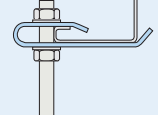


How to install...

1.

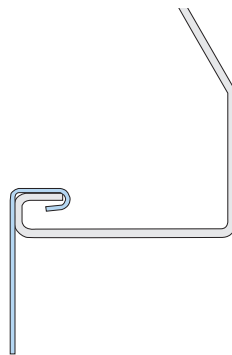


2.



Type HCW31

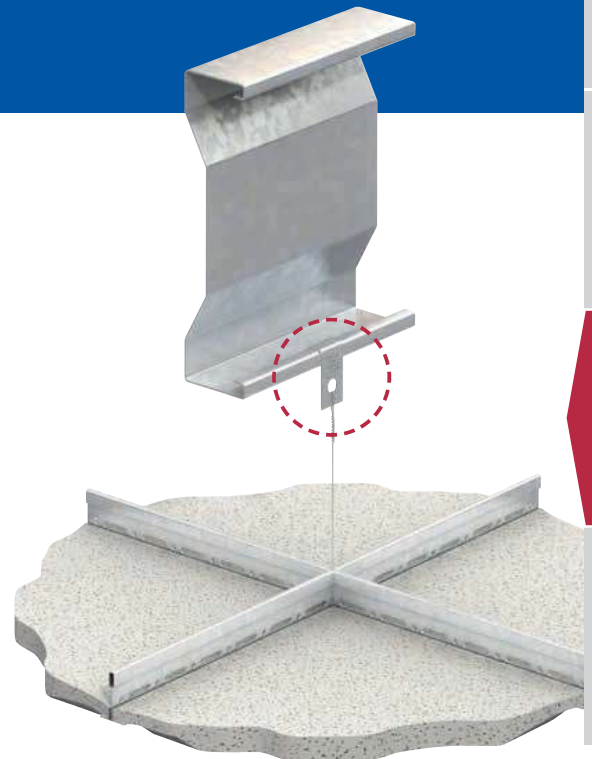
A universal purlin clip suitable for multiple applications.



Material: Pre-galvanised strip.

Code	Purlin	Safe Working Load (3:1 Factor of Safety)	
		Tensile kN	
HCW31	Kingspan Multibeam 3	0.2	

➤ Safe working loads are subject to the strength of the purlin. Please refer to the purlin manufacturer's literature.



GIRDER CLAMPS

RAIL FIXINGS

LIFTING POINTS

HOLLO-BOLT

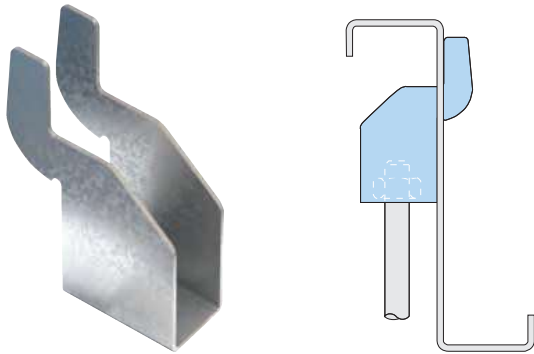
FLOOR FIXINGS

SUPPORT FIXINGS

DECKING FIXINGS

Type WF

The Webfix allows a quick installation directly from the web of Zed purlins.

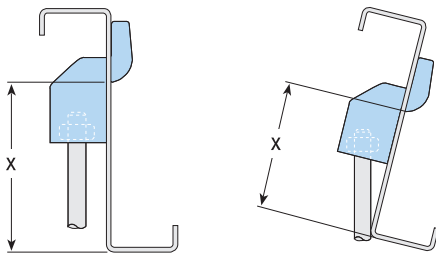


Material: Mild steel, zinc plated.

Prod. Code	Rod	Safe Working Load (5:1 FOS) Tensile kN	Max. Purlin Thick. mm	Hole Ø mm	Max Distance X at Angle of		
					10° mm	20° mm	30° mm
WF10	M10	1.0	4	18	103	94	74

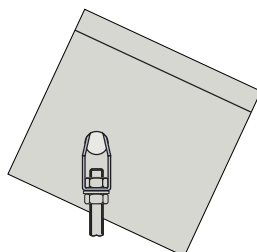
Hole Position for Canted Purlins

When purlins are connected to a sloping roof beam, the maximum allowable distance X (hole centre to bottom edge of the purlin) must decrease.



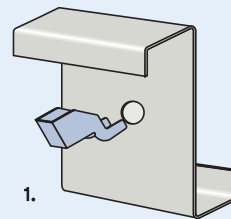
Hole Position of Inclined Purlin

Type WF adjusts to whatever angle is required. Hole position is not a limiting factor on product installation.

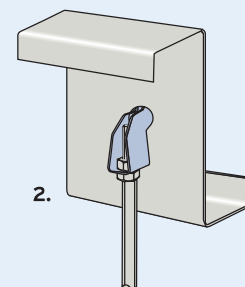


How to install...

- 1) Squeeze the legs of the Type WF together and push through the hole until it clicks into place.
- 2) Assemble with the nut, ensuring full thread capture.



1.



2.

Typical Applications for Support Fixings

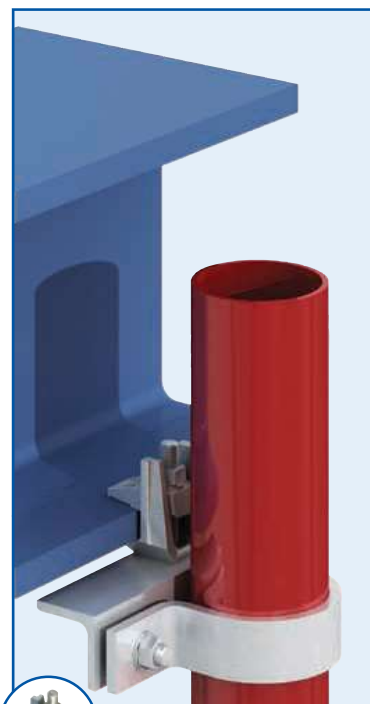
Examples of popular connection arrangements are shown below. Visit www.Lindapter.com to view more examples or contact Lindapter to discuss your connection requirement.



Type FLS (page 53)



Type FL (page 54)



Type F3 (page 56)



Types SH, Z10 + HCW30 (pages 57 - 59)



Type WF (page 60)

GIRDER CLAMPS

RAIL FIXINGS

LIFTING POINTS

HOLLO-BOLT

FLOOR FIXINGS

SUPPORT FIXINGS

DECKING FIXINGS