

Mounting instructions for Wibe Flex – support system in steel



Installation recommendations for electrical cable tray/ladder systems in buildings

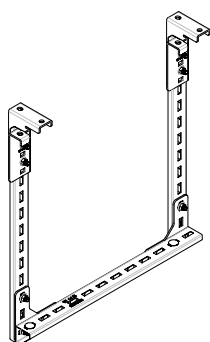


Safe handling

It is advisable to wear safety gloves when installing Wibe Flex.



Wibe Flex system – Tested configurations

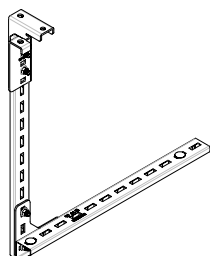
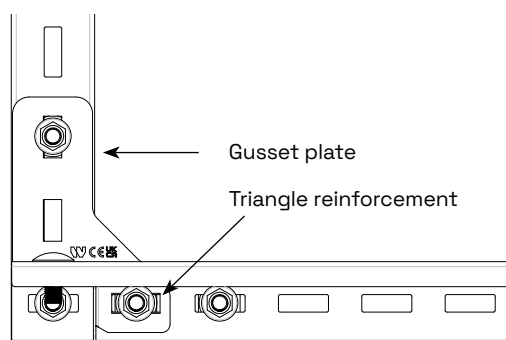


1 Trapeze configuration

A horizontal rail supported by two vertical Profiles.

This configuration can be reinforced using Gusset plates at the corners and Triangles within the Profiles.

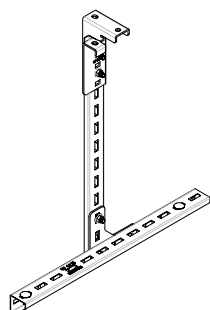
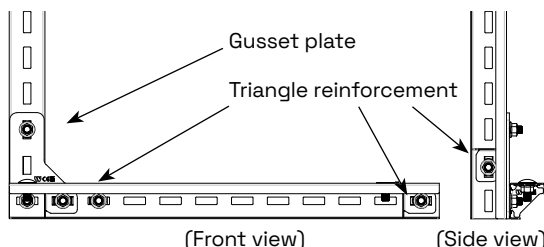
It is recommended to install Triangles at the ends of the horizontal Profiles and beneath the load points.



2 L configuration

A horizontal Profile supported by one vertical Profile at the side.

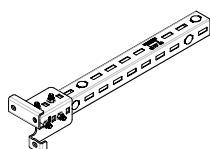
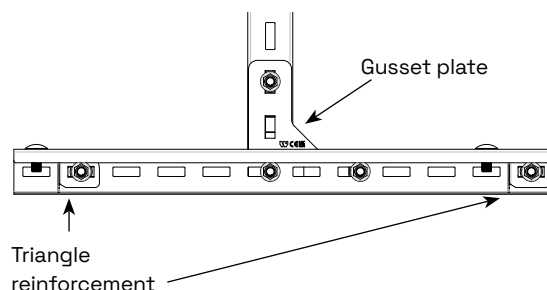
A Gusset plate is mandatory, along with Triangles at the ends of the Profiles.



3 T configuration

A horizontal Profile supported by one vertical Profile at the centre.

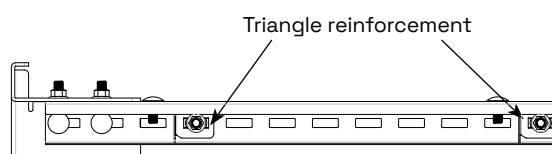
A Gusset plate is mandatory, along with Triangles at the ends of the Profiles.



4 Cantilever configuration

A horizontal Profile fixed directly to a Starter Bracket.

Triangles at the ends of the Profile are mandatory.

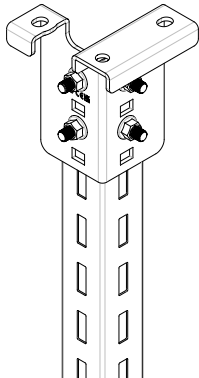




Recommended torque
for Bolt kit M10: 20 Nm



Fixation methods



Bolted starter brackets

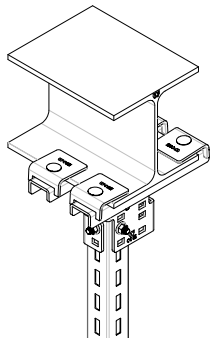
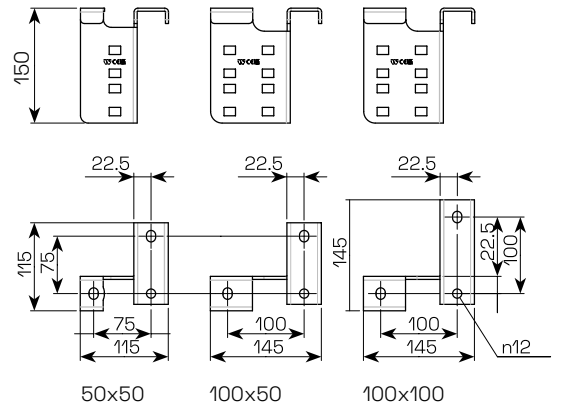
Fixation to the structure:

Bolted starter brackets require three M10 bolts.
The spacing between the Bolt kits depends on the bracket size.
Note that the 100x50 Bracket is asymmetric.

Fixation to the Profile:

To prevent sliding and twisting:

- Use at least 4 bolts for 50x50 Profiles
- 6 bolts for 100x50 Profiles
- 8 bolts for 100x100 Profiles



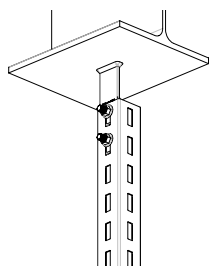
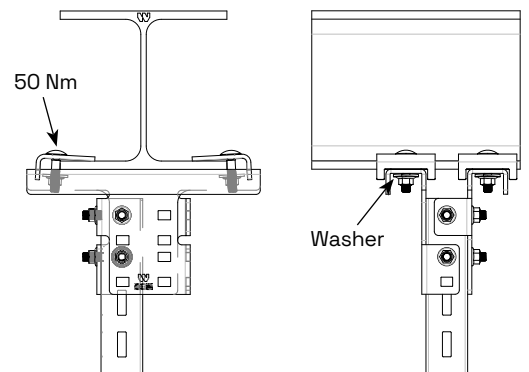
Beam clamp starter brackets

Fixation to the structure:

Beam clamp starter brackets must be used in pairs.
Use suitable Beam clamps and Beam clamp bolt kits depending on beam thickness, and select the appropriate bracket based on the beam's width.

Fixation to the profile:

Use a minimum of 4 Bolt kits to prevent sliding and twisting.



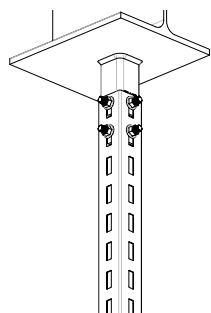
Welded starter brackets

Fixation to the structure:

Starter brackets must be welded to the structure when the application does not generate torque on the bracket.

Fixation to the Profile:

Use at least 2 Bolt kits to prevent sliding.



Welded angled starter brackets

Fixation to the structure:

If torque is generated during use, the Angeled starter brackets must be welded to the structure.

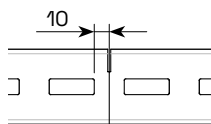
Fixation to the Profile:

To prevent sliding and twisting:

- Use at least 4 Bolt kits for 50x50 profiles
- 6 bolts for 100x50 profiles
- 8 bolts for 100x100 profiles

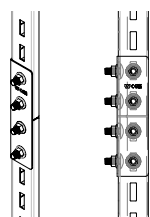


Recommended torque
for Bolt kit M10: 20 Nm



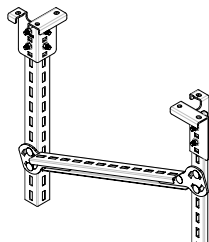
Profile cutting

If a Profile needs to be cut, aim for the centre point between two rectangular slots. This minimises sharp edges caused by the slot pattern.



Profile joining

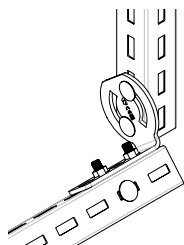
To connect two Profiles lengthwise, use the appropriate Splice connector. Ensure that all intersecting slots are secured with bolts.



Bracing brackets

Bracing brackets allow connection of Profiles at angles other than 90°, ideal for lateral reinforcement or creating slopes.

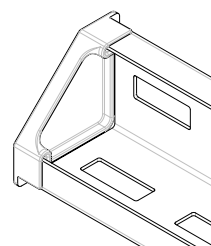
Size 50: $\pm 50^\circ$
Size 100: $\pm 45^\circ$



Flexi brackets

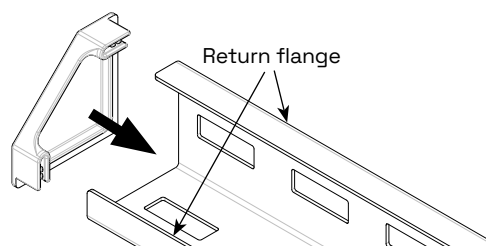
Flexi brackets offer angular adjustability for supporting cables running along sloped structures.

Size 50: $\pm 50^\circ$
Size 100: $\pm 45^\circ$



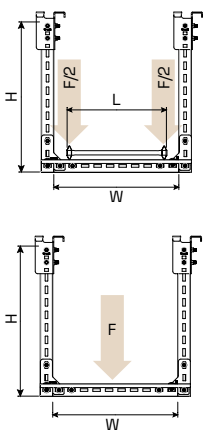
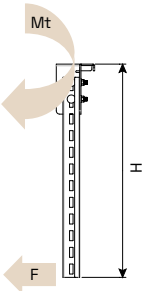
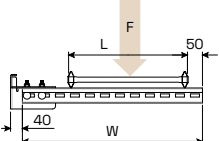
End plugs

Protective end caps cover the open ends of Profiles, preventing exposure to sharp edges. They are secured by locking into the return flange of the Profiles.



* Preliminary values. Final test results pending.

C4 HDG / Z+ CX SS AISI316L

Support configuration	Vertical profile size	Horizontal profile size	Profile ref	Bracket ref	Reinforcement (Gusset plate at the corner + Triangle at the end of the profiles)	Vertical profile length H (m)	Horizontal profile width W (m)	UDL length L (m)	SWL UDL (N) *	SWL central point (N) *
Starter bracket + Pendant + Profile 	50x50	50x50	EI1318001	EI1316015	EI1319001 + EI1319004	1	1.1	0.9	14 000	2 000
			EI2318004	EI2316018	EI2319007 + EI2319010					
	100x50	100x50	EI1318002	EI1316016	EI1319002 + EI1319005	1	1.1	0.9	21 000	6 250
			EI2318005	EI2316019	EI2319008 + EI2319011					
	100x100	100x100	EI1318003	EI1316017	EI1319003 + EI1319006	1	1.1	0.9	28 500	8 000
			EI2318006	EI2316020	EI2319009 + EI2319012					
Support configuration	Profile size	Profile ref	Bracket ref	Reinforcement (at the end of the profile)	Profile height W (mm)	SWL (Nm) *				
Pendant 	50x50	EI1318001	EI1316015	EI1319001	1 000	250				
		EI2318004	EI2316018	EI2319007						
	100x50	EI1318002	EI1316016	EI1319002	1 000	700				
		EI2318005	EI2316019	EI2319008						
	100x100	EI1318003	EI1316017	EI1319003	1 000	1 000				
		EI2318006	EI2316020	EI2319009						
Support configuration	Profile size	Profile ref	Bracket ref	Reinforcement (at the end of the profile)	Profile length W (mm)	UDL length L (mm)	SWL (N) *			
Cantilever arm 	50x50	EI1318001	EI1316015	EI1319001	600	400	900			
		EI2318004	EI2316018	EI2319007						
		EI1318001	EI1316015	EI1319001	1000	600	600			
		EI2318004	EI2316018	EI2319007						
	100x50	EI1318002	EI1316016	EI1319002	800	600	1 650			
		EI2318005	EI2316019	EI2319008						
		EI1318002	EI1316016	EI1319002	1100	900	1 200			
		EI2318005	EI2316019	EI2319008						
	100x100	EI1318003	EI1316017	EI1319003	800	600	2 100			
		EI2318006	EI2316020	EI2319009						
		EI1318003	EI1316017	EI1319003	1 100	900	1 300			
		EI2318006	EI2316020	EI2319009						



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