

FCB Bypass Framing Fixed Clip Connector

The FCB clip is an economical, high performance fixed clip connector that can be used for a variety of framing applications. It is rated for tension, compression and shear loads. It also allows the designer the flexibility to specify different screw and anchorage patterns to conform to desired load levels.

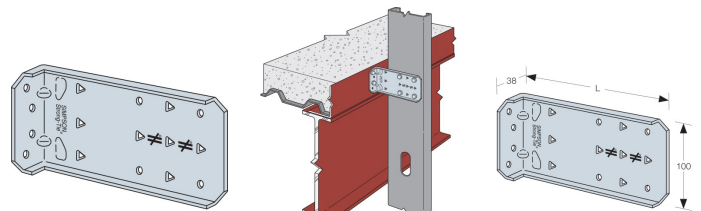
Features

Benefits

- Rated for tension, compression and shear loads.

Suitable For

- Light Gauge Steel Construction.



Typical FCB Installation at Bypass Framing.

FCB
Bypass Framing Fixed Clip Connector

Technical Data

Characteristic loads: Minimum Fasteners

References	L [mm]	Number of Fasteners		Characteristic Capacities [kN]								
		Pattern	Qty	0.9 mm Stud			1.2 mm Stud			1.4 mm Studs		
				F ₂	F ₃	R _{4,k}	F ₂	F ₃	R _{4,k}	F ₂	F ₃	R _{4,k}
FCB43.5-R25	89	Min	4 - ø6	5.4	5.4	5.4	7.9	6.9	8.0	8.9	6.9	10.6
FCB45.5-R25	140	Min	4 - ø6	5.4	5.4	5.4	7.9	6.9	6.7	7.9	6.9	9.4
FCB47.5-R25	191	Min	4 - ø6	5.4	5.4	1.6	7.9	6.7	2.4	7.9	6.9	2.6
FCB49.5-R25	241	Min	4 - ø6	5.4	5.4	1.2	7.9	6.7	1.6	7.9	6.9	2.6
FCB411.5-R25	292	Min	4 - ø6	5.4	5.4	1.0	7.9	6.5	1.5	7.9	6.9	2.6

Characteristic loads: Maximum Fasteners

References	L [mm]	Number of Fasteners		Characteristic Capacities [kN]								
		Pattern	Qty	0.9 mm Stud			1.2 mm Stud			1.4 mm Studs		
				F ₂	F ₃	R _{4,k}	F ₂	F ₃	R _{4,k}	F ₂	F ₃	R _{4,k}
FCB43.5-R25	89	Max	6 - ø6	7.8	8.0	8.0	7.9	9.0	10.4	8.9	12.4	13.6
FCB45.5-R25	140	Max	9 - ø6	7.8	9.0	8.4	7.9	9.0	10.6	7.9	12.4	13.7
FCB47.5-R25	191	Max	12 - ø6	7.8	9.0	5.0	7.9	9.0	7.5	7.9	12.4	10.3
FCB49.5-R25	241	Max	12 - ø6	7.8	9.0	5.3	7.9	9.0	7.9	7.9	12.4	8.5
FCB411.5-R25	292	Max	12 - ø6	7.8	9.0	8.5	7.9	9.0	6.1	7.9	12.4	6.1

1. Tested in accordance with ICC ES-261.
2. Minimum fastener quantity and load values, fill all round holes. Maximum fastener quantity and load values, fill all round and triangular holes.
3. Loads are based on clips capacity only and do not consider anchorage. The capacity of the connection system will be the minimum of the tabulated value and the anchorage loads in the table below.

Anchor Type	Qty	Anchorage Loads (kN)								
		F ₂ /F ₃	F ₄							
			FBC43.5	FBC45.5	FBC47.5		FBC49.5		FBC411.1	
		Min/Max	Min/Max	Min	Max	Min	Max	Min	Max	
ø6 Self Drilling Screw	2 - ø6	5.7	4.5	2.9	1.8	3.2	1.3	1.9	0.9	1.4
	3 - ø6	8.0	4.9	3.2	2.0	3.5	1.4	2.1	1.0	1.5
	4 - ø6	11.3	8.9	5.8	2.6	6.3	2.5	3.8	2.0	2.7
Titen Screw (TNT25134H)	2 - ø6	2.7	3.0	1.9	1.2	2.1	0.9	1.3	0.9	1.5
	3 - ø6	3.2	3.3	2.2	1.4	2.4	1.0	1.4	1.0	0.7
	4 - ø6	3.6	4.6	3.0	1.9	3.2	1.4	2.0	1.4	2.0

