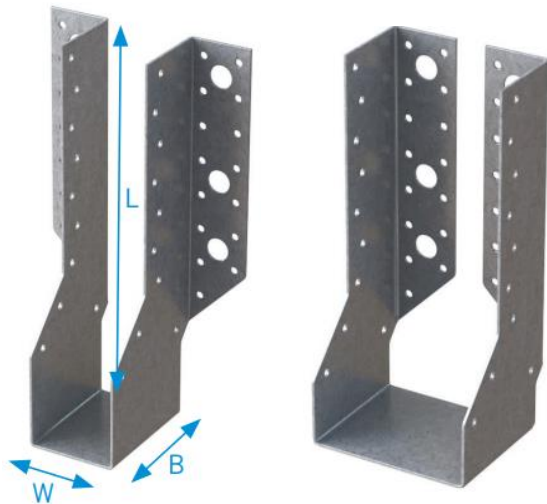


Multi-Truss Hangers

For use in heavy duty applications such as multiple truss units, main trimmer joists, purlin to beam connections or similar situations where unusually heavy loads occur.

Manufactured from 1.5mm galvanised steel. Bolt hole to suit M12 fixing, nail holes 5mm diameter. Produced from galvanised steel to BS EN 10346:2009 + G275 as standard.

Stainless steel hangers are available to order. Bearing surface on all multi-truss hangers is 75mm.



* Available at MTH/CF/500 with face plates folded inwards for concealed fixings.

MTH/500 Multi-Truss Hangers & MTH/CF/500 concealed flange

For use in heavy duty applications such as multiple truss units, main trimmer joists, purlin to beam connections or similar situations where unusually heavy load occurs. Bearing surface on all multi-truss hangers is 75mm. **Box quantity 25.**

Dimensions

Product code	Dimensions [mm]			Holes no. x Ø [mm]	
	W	L	B	In back plates	In side plates
MTH/500/38	38	231	75	30 x 5.0 6 x 13.0	20 x 5.0
MTH/500/44	44	228	75	30 x 5.0 6 x 13.0	20 x 5.0
MTH/500/47	47	226	75	30 x 5.0 6 x 13.0	20 x 5.0
MTH/500/50	50	225	75	30 x 5.0 6 x 13.0	20 x 5.0
MTH/500/63	63	218	75	30 x 5.0 6 x 13.0	20 x 5.0
MTH/500/75	75	212	75	30 x 5.0 6 x 13.0	20 x 5.0
MTH/500/88	88	206	75	30 x 5.0 6 x 13.0	20 x 5.0
MTH/500/91	91	204	75	30 x 5.0 6 x 13.0	20 x 5.0
MTH/500/100*	100	200	75	30 x 5.0 6 x 13.0	20 x 5.0
MTH/500/125*	125	187	75	30 x 5.0 6 x 13.0	20 x 5.0
MTH/500/150*	150	175	75	30 x 5.0 6 x 13.0	20 x 5.0

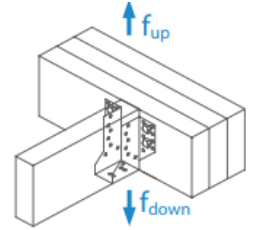
Special non-standard widths available to order.

Test Standard

Tested by BMTRADA to ETAG015

Verified by TZUS to EAD 130186-00-0603. – ETA 20/0915.

Declaration of Performance – Joist Hangers 19-0681-001



Load Data

These properties should be used for design in accordance with EN 1995-1-1:2004/A1 (Eurocode 5) or an appropriate national code. The load-carrying capacities have been derived by calculation or design assisted by testing or by testing.

Product code	Characteristic Capacity [kN]											
	C16 timber				C24 timber				TR26 timber			
	Type A nails		Type B nails		Type A nails		Type B nails		Type A nails		Type B nails	
	F _{up}	F _{down}	F _{up}	F _{down}	F _{up}	F _{down}	F _{up}	F _{down}	F _{up}	F _{down}	F _{up}	F _{down}
MTH/500/38	11.09	20.48	11.65	21.73	12.52	23.12	13.15	23.99	13.24	24.26	13.91	25.01
MTH/500/44	12.29	20.48	13.49	23.78	13.87	23.12	15.23	26.29	14.66	24.44	16.10	27.45
MTH/500/47	12.29	20.48	14.41	24.07	13.87	23.12	16.27	27.17	14.66	24.44	17.20	28.67
MTH/500/50	12.29	20.48	14.44	24.07	13.87	23.12	16.30	27.17	14.66	24.44	17.24	28.71
MTH/500/63	12.29	20.48	14.44	24.07	13.87	23.12	16.30	27.17	14.66	24.44	17.24	28.71
MTH/500/75	12.29	20.48	14.44	24.07	13.87	23.12	16.30	27.17	14.66	24.44	17.24	28.71
MTH/500/88	12.29	20.48	14.44	24.07	13.87	23.12	16.30	27.17	14.66	24.44	17.24	28.71
MTH/500/91	12.29	20.48	14.44	24.07	13.87	23.12	16.30	27.17	14.66	24.44	17.24	28.71
MTH/500/100*	12.29	20.48	14.44	24.07	13.87	23.12	16.30	27.17	14.66	24.44	17.24	28.71
MTH/500/125*	12.29	20.48	14.44	24.07	13.87	23.12	16.30	27.17	14.66	24.44	17.24	28.71
MTH/500/150*	10.92	20.48	12.84	24.07	12.33	23.12	14.49	27.17	13.03	24.44	15.32	28.71

Fixings

Use MTH/380 values for bolted connections. The header thickness should be checked by an engineer. Fix using either Type A, 30 x 3.75mm Sherardised Square Twist Nails OR Type B, 35 x 3.75mm. Sherardised Square Twist nails in all pre-punched holes.

Type	Description	d ¹ (mm)	l (mm)	f _{ax,k} ² (N/mm ²)	f _u (N/mm ²)
A	Square twist nails Sherardized finish Normally supplied loose for manual fixing	3.4	30	4.78	600
B	Square twist nails Sherardized finish Normally supplied collated for a nail gun	3.4	35	4.3	700

¹ This diameter is the minimum cross-section dimension in accordance with EN 14592. Square twist nails are often described in the market by their largest cross-section dimension, so that a 3.4 mm diameter nail will be sold as being 3.75 mm diameter.

² In timber with a characteristic density ρ_k of 350 kg/m³, i.e. C24 timber. At other values of ρ_k the value is modified so $f_{ax,k} = f_{ax,k} \cdot \min\left(\frac{\rho_k}{350}, 1.1\right)$

Installation

BPC Connectors are deemed fit for their intended use provided:

- The joints are designed in accordance with Eurocode 5 or an appropriate National Code using the characteristic values given in the Annexes. Design and detailing of structures should be carried out by suitably experienced persons in accordance with the manufacturer's instructions.
- Sides of the hanger should be at least 60% of the timber height to prevent rotation.
- Joist ends to be cut square with no more than 6mm gap from the rear of the hanger.
- Verifiable calculation, notes and drawings are prepared taking account of the loads to be carried.
- The widths of the joist narrower than the exact joist hanger width does not exceed the tolerance of +0/-4mm to the joist hanger width
- The header supporting the joist is adequately restrained against rotation.
- Specified fasteners are installed in all available holes of the same diameter.
- Timber should be free of wane in the connectors.
- The actual maximum bearing capacity of the joist itself is checked separately by the designer of the structure.
- The eccentricity of the acting forces relative to the axis of the connection is not excessive.
- The connectors have been installed correctly by appropriately qualified personnel using adequate tools, in accordance with the relevant building regulations, the manufacturer's specifications and the drawing prepared for that purpose.