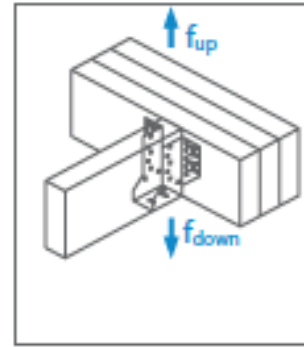
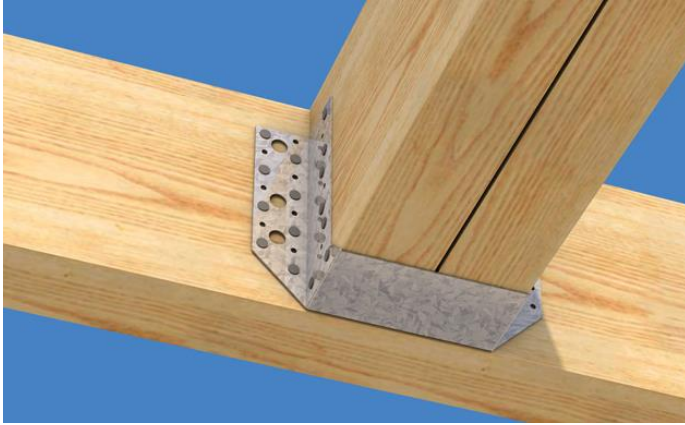


Type 240 Multi Truss Hanger

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. Bearing surface on all multi-truss hangers is 75mm.



Material Specification

Manufactured from 1.5mm thick galvanised steel to BS EN 10346:2009 G275 as standard, or stainless steel available to order.

Test Standard

Tested by [bctrada](#) to ETAG015 – [European Technical Approval 19/0681](#).
Declaration of Performance – [Joist Hangers 19-0681-001](#).

Dimensions

Product code	Dimensions [mm]			Holes no. x Ø [mm]	
	W	L	B	in hanger width	in hanger bearing surface
MTH/240/38	38	103	75	14 x 4.0 2 x 13.0	12 x 4.0
MTH/240/44	44	100	75	14 x 4.0 2 x 13.0	12 x 4.0
MTH/240/47	47	98	75	14 x 4.0 2 x 13.0	12 x 4.0
MTH/240/50	50	97	75	14 x 4.0 2 x 13.0	12 x 4.0

Load Data

BPC 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/240/38	4.93	9.56	5.18	11.23	5.56	10.79	5.85	12.68	5.88	11.41	6.18	13.41
MTH/240/44	5.46	9.56	6.00	11.23	6.17	10.79	6.77	12.68	6.52	11.41	7.16	13.41
MTH/240/47	5.46	9.56	6.40	11.23	6.17	10.79	7.23	12.68	6.52	11.41	7.64	13.41
MTH/240/50	5.46	9.56	6.42	11.23	6.17	10.79	7.25	12.68	6.52	11.41	7.66	13.41

Values are also valid for bolted connections. The header thickness should be checked by an engineer. These properties should be used for designs 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.

Fixings

Type	Description	d ¹ (mm)	l (mm)	f _{axk} ² (N/mm ²)	f _{td} (N/mm ²)	Type	Description	d ¹ (mm)	A _s ² (mm ²)	f _{yb} ³ (N/mm ²)	f _{ub} ⁴ (N/mm ²)	F _{v,Rd} ⁵ (kN)
A	Square twist nails Sherardized finish Normally supplied loose for manual fixing	3.4	30	4.78	600	M12	Hexagon bolt assembly minimum grade 8.8 CE marked in accordance with EN 15048-1	12	84.3	640	800	32.4
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 $f_{axk} = f_{axk} \cdot \min\left(\frac{\rho_k}{350}, 1.1\right)$

³ Yield stress

⁴ Ultimate tensile stress

⁵ Design shear stress $F_{v,Rd} = \frac{\alpha_v f_{ub} A_s}{\gamma_{M2}}$, where α_v = 0.6 and γ_{M2} = 1.25

Bolts may be used with MTH joist hangers to attach the hanger to a header beam. The bolts are installed in a pre-drilled 13 mm diameter hole. All bolt holes should be used. The thickness of the header beam should be verified by an engineer.

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 width of joists 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.