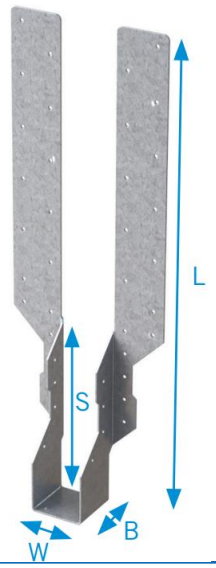
B460 Medium Duty Hanger (Long Leg)

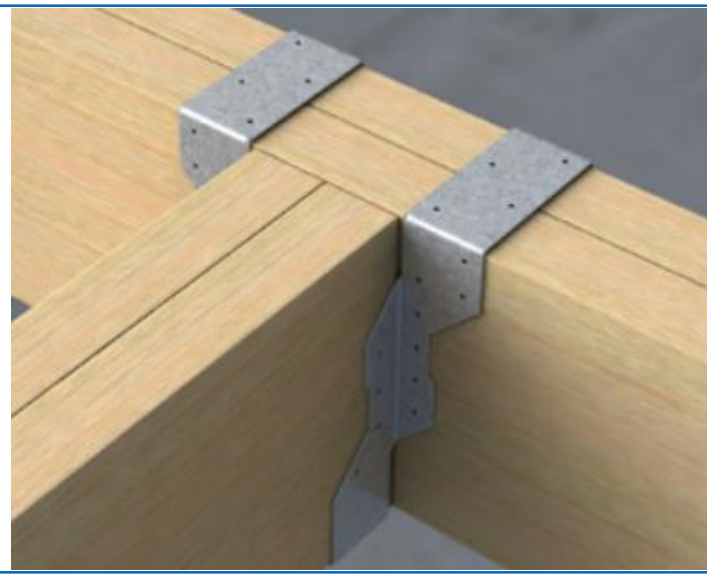
Data Sheet

CE

Timber to Timber Joist Hangers

Designed for general fixings of timber to other timber components. Produced from galvanised steel to BS EN 10346:2009 DX51D + G275 as standard, or stainless steel available to order. Galvanised hangers must be fixed using 30mm x 3.75mm sherardised square twisted nails in all pre-punched holes.





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Manufactured from 1.2mm thick pre-galvanised steel with 50mm wide legs, suitable for solid joist or I-Beam applications, either face fixed or wrapped over supporting joists. For loft conversion applications where the hanger extends below the supporting beam, a maximum drop of 75mm is recommended **Box quantity 50.**

Test Standard

Tested by BMTRADA to ETAG015

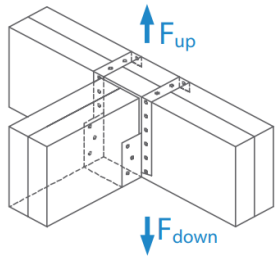
Verified by TZUS to EAD 130186-00-0603. – ETA 20/0915.

Declaration of Performance – Joist Hangers 19-0681-001

Dimensions & 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	Dimensions [mm]				Holes no. x Ø [mm]			Characteristic Capacity [kN]	
								C16, C24 or TR26 timber	
	W	L	B	S	in leg length	in side plate	in bearing surface	Type A or Type B nails	
								F_{up}	F_{down}
B460/38	38	483	50	186	34 x 4.0	8 x 4.0	2 x 4.0	3.71	18.00
B460/44	44	480	50	183	34 x 4.0	8 x 4.0	2 x 4.0	4.14	18.00
B460/47	47	479	50	182	34 x 4.0	8 x 4.0	2 x 4.0	4.14	18.00
B460/50	50	477	50	180	34 x 4.0	8 x 4.0	2 x 4.0	4.14	18.00
B460/63	63	471	50	174	34 x 4.0	8 x 4.0	2 x 4.0	4.14	18.00
B460/75	75	465	50	168	34 x 4.0	8 x 4.0	2 x 4.0	4.14	18.00
B460/88	88	458	50	161	34 x 4.0	8 x 4.0	2 x 4.0	4.14	18.00
B460/91	91	456	50	159	34 x 4.0	8 x 4.0	2 x 4.0	4.14	18.00
B460/100	100	452	50	155	34 x 4.0	8 x 4.0	2 x 4.0	4.14	18.00
B460/125	125	440	50	143	34 x 4.0	8 x 4.0	2 x 4.0	4.14	18.00
B460/150	150	427	50	130	34 x 4.0	8 x 4.0	2 x 4.0	4.14	18.00



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Fixings

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/mm²)	f_u (N/mm²)
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.

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