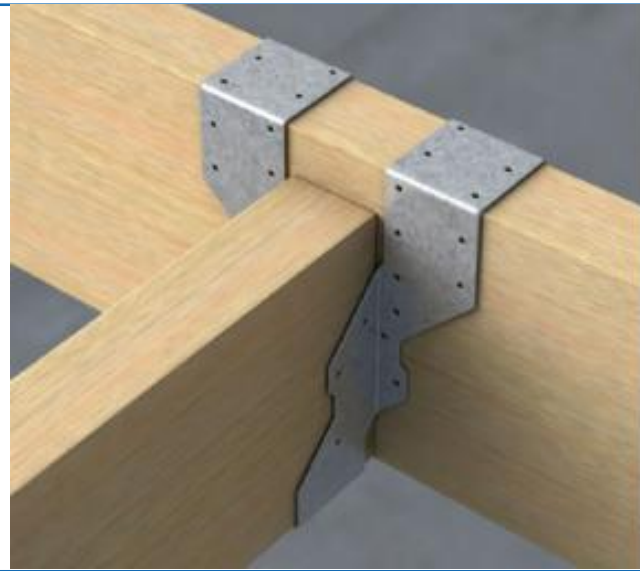
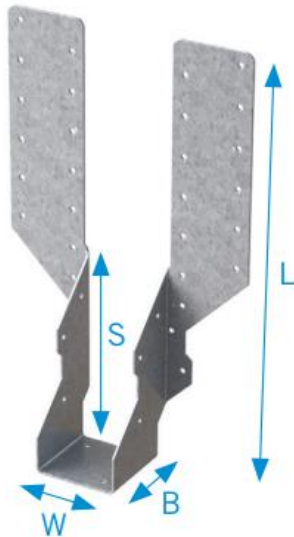


## Timber to Timber Joist Hangers

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.



### A270 Light Duty Hanger (Standard Leg)

A lightweight galvanised joist hanger manufactured from 0.9mm thick galvanised steel providing a strong connection and quick and easy installation. Designed with wider 50mm strap legs to enhance performance with increased nail spacing. Suitable for joist depths of 150 to 250mm. Leg length can be adjusted by wrapping over to suit joist height. Also suitable for face fixing. **Box quantity 100.**

### Test Standard

Tested by BMTRADA to ETAG015

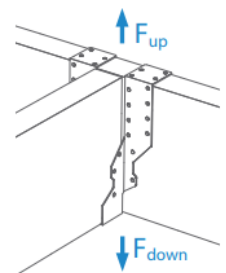
Verified by TZUS to EAD 130186-00-0603. – ETA 20/0915.

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]											
	W	L	B	S	in leg length	in side plates	in bearing surface	C16 timber				C24 timber				TR26 timber			
								Face fixed		Wrapped		Face fixed		Wrapped		Face fixed		Wrapped	
F <sub>up</sub>	F <sub>down</sub>	F <sub>up</sub>	F <sub>down</sub>	F <sub>up</sub>	F <sub>down</sub>	F <sub>up</sub>	F <sub>down</sub>	F <sub>up</sub>	F <sub>down</sub>	F <sub>up</sub>	F <sub>down</sub>	F <sub>up</sub>	F <sub>down</sub>	F <sub>up</sub>	F <sub>down</sub>				
A270/38	38	276	50	126	30 x 4.0	6 x 4.0	2 x 4.0	2.48	11.13	2.48	10.29	2.80	11.83	2.80	10.94	2.96	12.16	2.96	11.25
A270/44	44	273	50	123	30 x 4.0	6 x 4.0	2 x 4.0	2.79	11.13	2.79	10.75	3.15	11.83	3.15	11.40	3.33	12.16	3.33	11.71
A270/47	47	272	50	122	30 x 4.0	6 x 4.0	2 x 4.0	2.79	11.13	2.79	10.75	3.15	11.83	3.15	11.40	3.33	12.16	3.33	11.71
A270/50	50	270	50	120	30 x 4.0	6 x 4.0	2 x 4.0	2.79	11.13	2.79	11.20	3.15	11.83	3.15	11.86	3.33	12.16	3.33	12.18
A270/63	63	264	50	114	30 x 4.0	6 x 4.0	2 x 4.0	2.79	13.05	2.79	12.18	3.15	13.78	3.15	12.86	3.33	14.13	3.33	13.18
A270/75	75	258	50	108	30 x 4.0	6 x 4.0	2 x 4.0	2.79	12.46	2.79	12.32	3.15	13.16	3.15	13.01	3.33	13.49	3.33	13.34
A270/88	88	252	50	102	30 x 4.0	6 x 4.0	2 x 4.0	2.79	12.46	2.79	12.32	3.15	13.16	3.15	13.01	3.33	13.49	3.33	13.34
A270/91	91	250	50	100	30 x 4.0	6 x 4.0	2 x 4.0	2.79	12.46	2.79	12.32	3.15	13.16	3.15	13.01	3.33	13.49	3.33	13.34
A270/100	100	245	50	95	30 x 4.0	6 x 4.0	2 x 4.0	2.79	12.46	2.79	12.62	3.15	13.16	3.15	13.33	3.33	13.49	3.33	13.66



## 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/mm <sup>2</sup> )	$f_u$ (N/mm <sup>2</sup> )
A	Square twist nails Sherardized finish Normally supplied loose for manual fixing	3.4	30	4.78	600

<sup>1</sup> 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.

<sup>2</sup> In timber with a characteristic density  $\rho_k$  of 350 kg/m<sup>3</sup>, i.e. C24 timber. At other values of  $\rho_k$  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