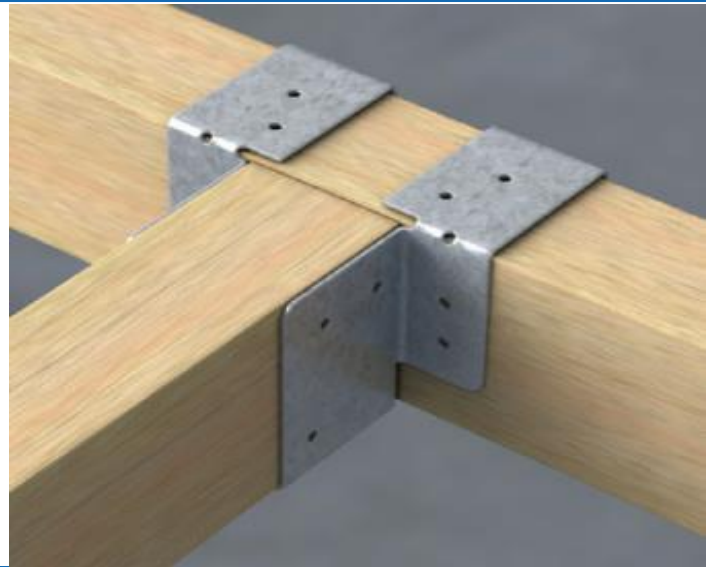
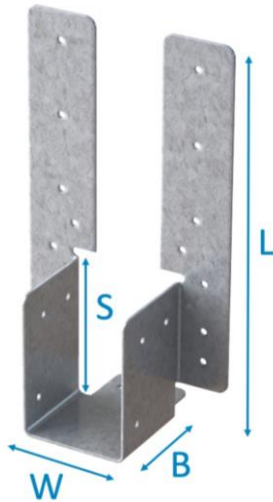


## Timber to Timber Joist Hangers

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.



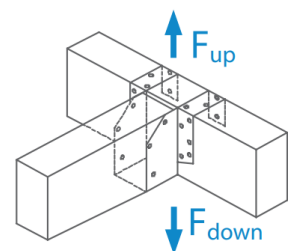
### A190 Light Duty Hanger (Short Leg)

Lightweight hanger manufactured from 0.9mm thick galvanised steel. Suitable for joist depth up to 175mm. **Box quantity 100.**

### 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	
<b>A190/38</b>	38	190	50	71	20 x 4.0	6 x 4.0	2 x 4.0	6.3
<b>A190/47</b>	47	190	50	68	20 x 4.0	6 x 4.0	2 x 4.0	4.6
<b>A190/50</b>	50	190	50	65	20 x 4.0	6 x 4.0	2 x 4.0	5.0



## Fixings

Fix using Type A, 30 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