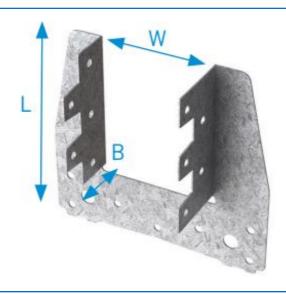




Timber Engineering Hardware

A comprehensive range of connectors produced from galvanised steel to BS EN 10346:2009 + G275 as standard or stainless steel to order. Galvanised hangers must be fixed using 30 x 3.75mm sheradised square twisted nails in all pre-punched holes.





TC Truss Clip

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. Truss Clip values are for uplift only and have been determined for a rafter at a 30 $^\circ$ slope. Box quantity 50.

Test Standard

Tested by BMTRADA to ETAG015

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

Declaration of Performance – Connector Plate and Anchors 19-0681-003

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.	Characteristic Capacity [kN]	
	W	L	В	Plate 1	Plate 2	Uplift
TC/38	38	110	29	7 x 4.0 2 x 8.0	10 x 4.0	3.50
TC/44	44	110	29	7 x 4.0 2 x 8.0	10 x 4.0	3.75
TC/47	47	110	29	7 x 4.0 2 x 8.0	10 x 4.0	3.75
TC/50	50	110	29	7 x 4.0 2 x 8.0	10 x 4.0	3.75

Head Office: BPC Building Products Ltd, Flanshaw Way, Wakefield WF2 9LP Tel: 01924 364794 Fax: 01924 373846

web: www.bpcfixings.com email: sales@bpcfixings.com



Data Sheet





Fixings

Fix using either Type A, 30×3.75 mm Sherardised Square Twist Nails OR Type B, 35×3.75 mm. Sherardised Square Twist nails in all pre-punched holes.

Туре	Description	d ¹ (mm)	l (mm)	$f_{\rm ax,k}^2$ (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
В	Square twist nails Sherardized finish Normally supplied collated for a nail gun	3.4	35	4.3	700

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.

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.



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 $f_{axk} = f_{axk} \cdot \min\left(\frac{\rho_k}{a_{so}}, 1.1\right)$