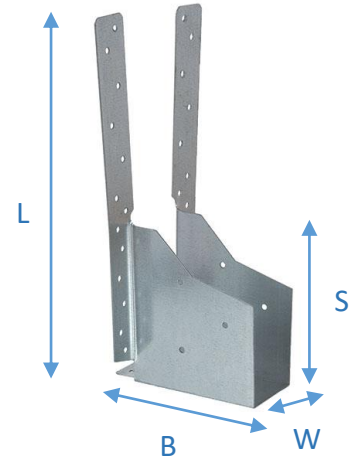
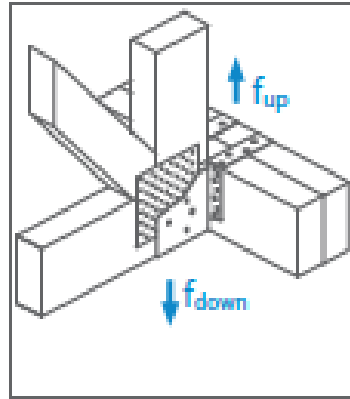
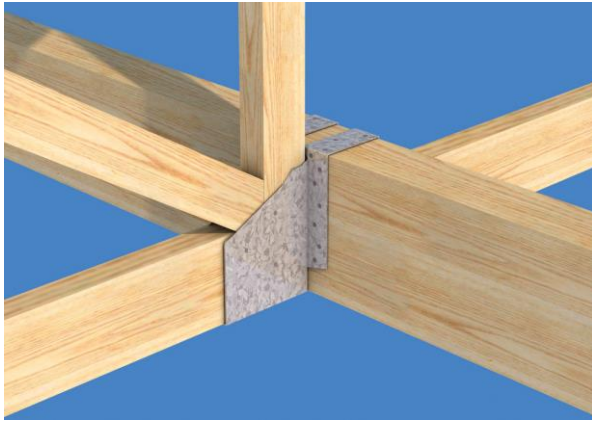


### Girder Truss Shoe

Designed to provide a structural connection between a truss and a girder truss or beam. Manufactured from 1.2mm thick galvanised steel to BS EN 10346:2009 + G275. Features a location tab allowing easy accurate alignment of the hanger. Suitable for face fix or wrap-over fixing. Box quantity 100.



### Material Specification

Manufactured from 1.2mm 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	S	in leg length	in side plate	in bearing surface
GTS800/38	38	343	100	116	26 x 4.0	8 x 4.0	2 x 4.0
GTS800/44	44	343	100	116	26 x 4.0	8 x 4.0	2 x 4.0
GTS800/47	47	343	100	116	26 x 4.0	8 x 4.0	2 x 4.0
GTS800/50	50	343	100	116	26 x 4.0	8 x 4.0	2 x 4.0
GTS800/63	63	343	100	116	26 x 4.0	8 x 4.0	2 x 4.0
GTS800/75	75	343	100	116	26 x 4.0	8 x 4.0	2 x 4.0
GTS800/88	88	343	100	116	26 x 4.0	8 x 4.0	2 x 4.0
GTS800/91	91	343	100	116	26 x 4.0	8 x 4.0	2 x 4.0
GTS800/100	100	343	100	116	26 x 4.0	8 x 4.0	2 x 4.0

## Load Data

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 <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>
GTS800/38	3.71	13.70	3.89	13.95	4.19	14.92	4.40	15.19	4.43	15.42	4.65	15.71
GTS800/44	4.14	14.27	4.51	14.77	4.67	15.56	5.09	16.12	4.94	16.10	5.38	16.69
GTS800/47	4.14	14.27	4.82	15.18	4.67	15.56	5.44	16.58	4.94	16.10	5.75	17.18
GTS800/50	4.14	14.27	4.86	15.23	4.67	15.56	5.48	16.64	4.94	16.10	5.80	17.25
GTS800/63	4.14	14.27	4.86	15.23	4.67	15.56	5.48	16.64	4.94	16.10	5.80	17.25
GTS800/75	4.14	14.27	4.86	15.23	4.67	15.56	5.48	16.64	4.94	16.10	5.80	17.25
GTS800/88	4.14	14.27	4.86	15.23	4.67	15.56	5.48	16.64	4.94	16.10	5.80	17.25
GTS800/91	4.14	14.27	4.86	15.23	4.67	15.56	5.48	16.64	4.94	16.10	5.80	17.25
GTS800/100	4.14	14.27	4.86	15.23	4.67	15.56	5.48	16.64	4.94	16.10	5.80	17.25

\* Values may be used for wrapped with hanger plates wrapped over the top edge of the header. Minimum 2 x 9 No. fasteners fixed in the headerface and 2 x 3 No. fasteners fixed in the header top edge.

\*\* Use C24 values for wrapped hanger plates. 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.

Type	Description	d <sup>1</sup> (mm)	l (mm)	f <sub>ax,k</sub> <sup>2</sup> (N/mm <sup>2</sup> )	f <sub>u</sub> (N/mm <sup>2</sup> )
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

<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 ρ<sub>k</sub> of 350 kg/m<sup>3</sup>, i.e. C24 timber. At other values of ρ<sub>k</sub> 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 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.