

TRUSSLOK[®]

DESIGN DATA SHEET FOR USE WITH BS5268-2

The permissible strength data in this design sheet was derived, using appropriate safety factors, from characteristic strength data determined in accordance with prEN14592

FEATURES

DESCRIPTION

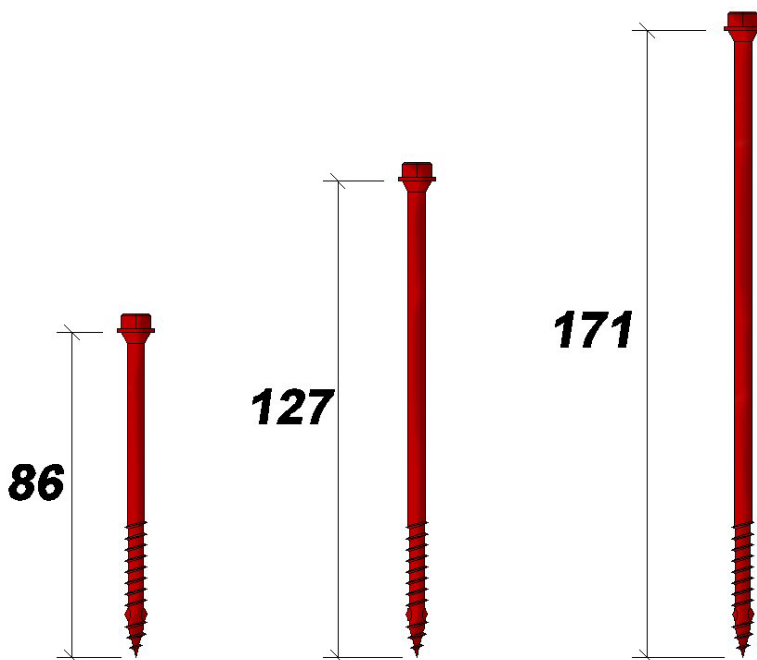
- The fasteners are made from case-hardened steel
- The fasteners have a proprietary epoxy coating that provides corrosion protection while lowering the installation torque

INSTALLATION

- **NO PRE-DRILLING IS REQUIRED**
- Chamfering underside of head effectively eliminates snapping during installation

DIMENSIONS

TrussLok fasteners are available in three lengths – **86mm, 127mm & 171 mm**



Head Style		9.5 mm Hex Drive
Diameters	Plain Shaft	5.7 mm
	Outer Thread	7.2 mm
	Inner Thread	5.3 mm
Thread Length		37 mm

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Permissible lateral load-carrying capacities

The permissible lateral load-carrying capacity of **TrussLok** fasteners can be evaluated for any combination of wood member thickness using Annex G of BS5268-2, based on the following parameters:

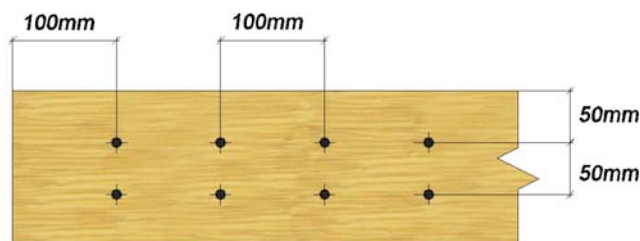
- A screw diameter (d) of 5.7mm
- A design yield moment ($M_{y,d}$) of 18000 Nmm
- Design embedding strength ($f_{h,d}$) of 17.5 N/mm² applicable for Kerto-LVL, Versalam-LVL, Parallam-PSL and TimberStrand-LSL
- Load-duration modification factors of 1.00 for long-term, 1.12 for medium-term and 1.25 for short-term and very short-term load durations

Lateral load-carrying capacities

Long-term permissible lateral load for a single **TrussLok** fastener for common combinations of engineered wood joints:

Thickness of headside member (mm)	Thickness of pointside member (mm)	Length of TrussLok® fastener	Long-term permissible lateral load-carrying capacity (kN)
45	45	86	1.1
75	75	127	1.3
89	89	171	1.3

- The load may be acting either parallel or perpendicular to the grain
- **Minimum edge and end distances of 50mm and 100mm respectively**
- **Minimum spacing between fasteners perpendicular and parallel to the grain of 50mm and 100mm respectively**
- The permissible capacities in the above table are calculated using Annex G of BS 5268-2 based on the design input parameters given above and a minimum pointside penetration of 37mm



Always maintain minimum end, edge & fastener spacing distances

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