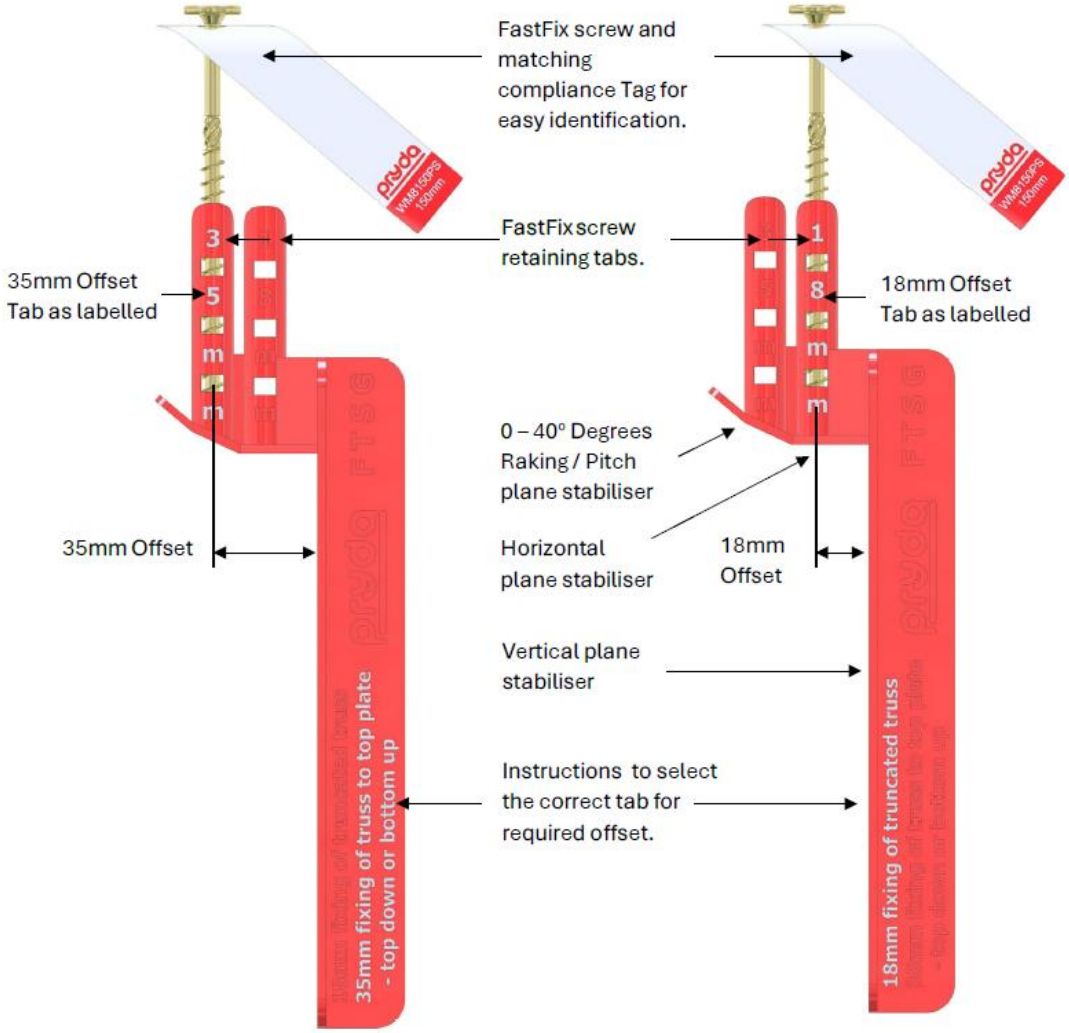
24th April 2025

CERTIFICATION OF THE PRYDA FASTFIX TRUSS SCREW GUIDE (FTSG) SYSTEM

TECHNICAL DETAILS

Pryda's FastFix Truss Screw Guide (FTSG) system provides a complete screw truss tie-down solution for site-fixed tie-down of trusses and rafters into frames and beams. The attached Technical Guide steps through the key considerations, approved applications, tie-down capacities, and installation steps.

PRYDA FASTFIX™ TRUSS SCREW GUIDE (FTSG) DESIGN FEATURES



SYSTEM UPLIFT CAPACITIES USING 150MM PRYDA TIE-DOWN SCREW (WM8150PS)

It is essential that the table below is read in conjunction with the Pryda FTSG Technical Guide to ensure that all relevant design requirements have been met. Higher capacities may be achievable with alternative wall plate configurations and truss/rafter pitch angles, and/or the use of Pryda 200mm screws (WM8200PS).

Application	35mm Top Plate	45mm Top Plate
Bottom-up fixing through wall top plate(s) into a 90mm deep truss chord	6.3kN (single plate) 6.8kN (double plate)	7.6kN (single plate) 5.1kN (double plate)
Bottom-up fixing through wall top plate(s) into a sloping, plated truss chord*	8.5kN (single plate) 6.8kN (double plate)	8.5kN (single plate) 5.1kN (double plate)
Bottom-up fixing to non-plated trusses or rafters	6.5kN (single plate) 3.5kN (double plate)	5.6kN (single plate) 1.8kN (double plate)
Top-down fixing through sloping, plated truss chord	Refer to Technical Guide to verify roof pitch and wall plate configuration	
Top-down fixing through sloping plain timber member	3.8kN (fixed into min. 90mm deep rafter/beam)	

*Screw must be fully contained within the depth of the truss chord

INSTALLATION PROCESS AND VERIFICATION

Pryda has created an optional installation checklist (attached) to assist building certifiers who are unfamiliar with the system. This checklist should be provided to the installer prior to installation of the screws and returned to the certifier at the time of inspection to assist with verifying that the tie-down screws have been selected and installed correctly.

ENGINEERING CERTIFICATION

I, Adam Dawson, being a Chartered Professional Engineer, hereby certify that the use of the Pryda FastFix Truss Screw Guide (FTSG) system to install Pryda FastFix tiedown screws into wall framing members has been designed and recommended in accordance with soundly based and widely accepted engineering principles. The FTSG system is suitable for connections that meet the following conditions:

- Pryda FTSG is suitable for Residential light timber frame dwellings designed in accordance with AS1684
- Design and installation shall closely follow the details found within the Pryda FastFix Truss System technical guide
- The system supports tiedowns of rafters and trusses
- High-density timbers and/or those prone to splitting may require pre-drilling a 6.5mm diameter hole prior to screw installation; refer to the Pryda FastFix Truss System technical guide for details.
- A visual inspection of the rafter/heel-joint prior is completed to screw installation to verify that it is absent from defects such as knots, splits, wane, checks any other imperfections that could compromise the structural integrity of the connection

If the FTSG system is used in accordance with these conditions and the installation instructions in the technical guide, the Pryda screws will provide the design capacities calculated in Pryda Build software.

The screws' capacities have been tested by a registered testing authority in accordance with the Australian Standards and these values are calculated within the software for each nominated connection. The performance of timber members with these screws installed has also been tested in a range of scenarios by a registered testing authority. These tests have shown that the requirements and guidance of AS1720.1-2010 and AS1720.5-2015 are valid when Pryda SpeedTruss screws are used in accordance with our specifications. No additional design considerations are required for trusses using SpeedTruss screws.

The Producer Statement generated from the latest version of our Pryda Build software specifies Pryda Screws at each truss tie-down location based on the actual screw thread penetration into the supporting member.

Certified by:

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