NZ PRYDA FASTFIX[™] STUD TO WALL PLATE AND WALL PLATE TO LINTEL TIE-DOWN DETAILS



APPLICATION AND SCOPE OF USE

Pryda FastFixTM screws are certified when used and installed in accordance with the product datasheet shown connection details. Pryda fasteners approved for the installation form an integral part of the connection and therefore should be used with all Pryda products installation unless otherwise approved by a certified structural Engineer. Only use the product for its intended applications and the selected product material type within the specified environmental condition as outlined in NZS 3604:2011 Table 4.1.

- Top and bottom plates to stud connection.
- Plate to beam connections.

DURABILITY

Pryda FastFixTM screws are only available in Yellow Zinc Chromate as per AS/NZS 1789 - 2023, therefore suitable for "Closed" environment.

GENERAL NOTES APPLICABLE TO ALL CONNECTIONS AND CAPACITY TABLES.

- 1) Design capacities apply for dry (maximum moisture content of 18%) Radiata Pine and Douglas Fir timber grade SG8 and for timber which meets JD5 timber as defined in AS/NZS 1720.
- 2) Capacities given are for direct connection between plate(s) to stud unless stated otherwise.
- Pre-drilled holes (4mm drill bit) may be required in timber components that are prone to splitting or close to timber ends (<70mm) or edges (<30mm).
- If the timber is prone to splits during installation then alternate tie down fixing may be required.
- Continuous tie-down capacity shall be governed by the lesser capacity value tie-down connection within the connection chain.
- 5) Tie-down connection capacity is for vertical up-lift due to Wind load only.
- 6) Compliance identification sticker, tags or stamp shall be used with each FastFix[™] screw connection. This is not shown in connection details to follow for clarity purposes.



COMPLIANCE IDENTIFICATION OPTIONS FOR 90mm FRAMING

To compliment the safer, and faster installation of the FastFix[™] screws, Pryda also offers a smarter and easier on-site identification system to fast track onsite inspection of framing that have been installed using the trusted and certified Pryda FastFix[™] screws. Each FastFix[™] connection shall be accompanied by one of the following options.

Available options are:

Sticker installed to face of stud at location of FastFix[™] framing screw installation.

Product Code : LAYCT

Dimensions : 102mm Length x 60mm width.



Weatherproof Tags that are made from tough and durable material and can be directly attached to the FastFix[™] framing screw for direct and easy identification.

Product Code : TAG-135 & TAG-175 Dimensions : 120mm x 25mm





Durable and robust stamp that is fully customizable size stamping for complete FastFix[™] framing screws. Screw sizes include 135mm, 175mm, and more.

Product Code : Contact Pryda for more details.

Dimensions : 90mm x 20mm







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PRYDA FASTFIX[™] LINTEL TIE-DOWN DETAIL A1 – DOUBLE TOP PLATES TO SINGLE JAMB STUD

Design capacities apply for dry (maximum moisture content of 18%) Radiata Pine and Douglas Fir timber grade SG8 and for timber which meets JD5 timber as defined in AS/NZS 1720.



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PRYDA FASTFIX[™] LINTEL TIE-DOWN DETAIL A2 – DOUBLE TOP

PLATES TO DOUBLE JAMB STUDS

Design capacities apply for dry (maximum moisture content of 18%) Radiata Pine and Douglas Fir timber grade SG8 and for timber which meets JD5 timber as defined in AS/NZS 1720.



Refer to 'General notes' for installation conditions.

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PRYDA FASTFIX[™] TOP PLATE TIE-DOWN DETAIL B – **TYPICAL**

DOUBLE TOP PLATES TO SINGLE STUD CONNECTION

Design capacities apply for dry (maximum moisture content of 18%) Radiata Pine and Douglas Fir timber grade SG8 and for timber which meets JD5 timber as defined in AS/NZS 1720.



Refer to 'General notes' for installation conditions.

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PRYDA FASTFIX[™] TIE-DOWN DETAIL C – UPPER FLOOR

TIE-DOWN TO GROUND FLOOR CONNECTION CHAIN

Design capacities apply for dry (maximum moisture content of 18%) Radiata Pine and Douglas Fir timber grade SG8 and for timber which meets JD5 timber as defined in AS/NZS 1720.

TOP PLATES CONNECTION

SECOND FLOOR TOP PLATE CONNECTION CHAIN



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Min. Grade 20MPa Min. 200mm Deep



PRYDA FASTFIX[™] TIE-DOWN DETAIL D – TIE ROD REPLACEMENT SYSTEM CAPACITIES FOR COMMON FLOOR CONNECTIONS

Design capacities apply for dry (maximum moisture content of 18%) Radiata Pine and Douglas Fir timber grade SG8 and for timber which meets JD5 timber as defined in AS/NZS 1720.

DETAIL D (1) EDGE BEAM CONNECTION

For a floor system with solid timber blocking (typically LVL) for sets of 1 screw to each connection at the center line (CL) of each member the system capacity is 6.4 kN.

Screws should be fixed at the centerline of each member unless noted otherwise (U.N.O). Screws fixing plate(s) to edge beam can be vertically aligned to one side.





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To achieve system capacity of 7.7 kN use 175mm screws in the upper floor connection as below:

DETAIL D (2) BETWEEN FLOOR JOISTS - CONTINUITY BLOCKING

For floor systems that are not Pryda Span or Longreach (e.g. I joist or steel joists) the following detail can be applied which is to run a blocking piece between the upper and lower floors and screw fix to maintain continuity.



FRONT VIEW

ISOMETRIC VIEW



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To upgrade the capacity slightly a 175 mm screw can be used through the bottom plate of the upper wall frame which will give the extra thread length needed to develop the full capacity of the screw – i.e. 7.7 kN

System capacity – assuming minimum 70mm wide timber grade SG8 or better = 7.7 kN

DETAIL D (3) DOUBLE SCREWS WITH 90MM FRAMING

By using double screws, the capacity can be increased further however requires 90mm framing to achieve the spacing between the screws.



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System capacity - assuming minimum 90mm wide timber grade SG8 or better = 12.8 kN

DETAIL D (4) PRYDA SPAN FLOOR TRUSS - CONTINUITY TIE-DOWN THROUGH TRUSS END VERTICAL WEB WITH 35MM SET-BACK





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System capacity - assuming minimum 90mm wide timber grade SG8 or better = 7.7 kN

Contact details	
Manufacture location	Overseas
Legal and trading name of manufacturer	Dra-goon Fasteners Inc
Legal and trading name of supplier	Pryda New Zealand -a Division of ITW New Zealand
Importer address for service	23-29 Poland Road, Wairau Valley, Auckland, 0627, New Zealand
Importer website	Pryda.co.nz
Importer email	info@prydaanz.com
Importer phone number	0800 88 22 44
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