

## NZ FRAME FIX

The Pryda Frame Fix (PFF) has been designed to allow a service hole of no greater than 60mm to be drilled through a top plate (including top plate packer if used) or wall stud to allow services such as air conditioning or central vacuum pipes to be passed through the member. The fitting of a PFF re-instates the integrity of the penetrated top plate or stud.

### FEATURES AND BENEFITS

**SIMPLE:** Quick and easy to install. Leaves clean faces to outside edges of the timber frames.

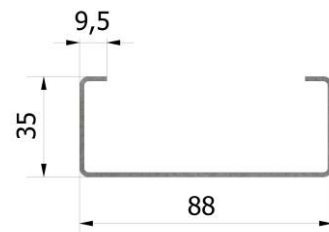
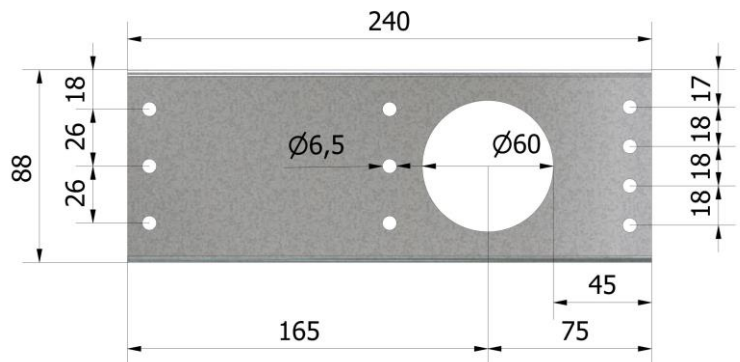
**FAST:** Fixing is by fast drilling Type17 hex head screws. Allows an easy solution to fix penetrations in frames made by other trades

**DURABLE:** Made from reliable 1.6mm G300 Z275 Steel.



### SPECIFICATIONS

|                             |  |
|-----------------------------|--|
| <b>PRODUCT CODE</b>         | PFF  |
| <b>STEEL</b>                | G300   |
| <b>THICKNESS</b>            | 1.6mm  |
| <b>CORROSION RESISTANCE</b> | Z275   |
| <b>FASTENERS REQUIRED</b>   | Pryda 12G x 35mm Connector Screw<br><br>OR<br><br>Pryda 14G x 75mm Type 17 screw |
| <b>LENGTH</b>               | 240mm  |
| <b>WIDTH</b>                | 88mm   |
| <b>DEPTH</b>                | 35mm   |



At the time of print, this product is NOT subject to any known warnings and bans found in Building Act 2004.

## FRAME FIX

| PRODUCT CODE | MATERIAL                   | SIZE                | MINIMUM TIMBER GRADE | SUITABILITY      |
|--------------|----------------------------|---------------------|----------------------|------------------|
| PFF          | G300 Z275 Galvanised Steel | 240mm x 88mm x 35mm | SG8                  | Top Plate / Stud |

### Notes:

- Design applies 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.
- Suitable for single or double 90 x 45mm SG8 timber only for top plates with a maximum stud centre of 900mm. Refer to installation instructions for fastener fixing requirements for single or double top plates.
- Suitable for single 90 x 45 mm SG8 common stud not supporting concentrated loads. Maximum stud height 2700mm with minimum 1 row of nog/dwang at mid-point.

## APPLICATION AND SCOPE OF USE

Alternative Solution to NZS3604 to Section 8, Clause 8.7.5 Holes in plates.

The PFF2 is intended to re-instate the structural integrity of both 90 x 45mm and 140 x 45mm wall frame top plates (including a top plate packer if used) or wall studs that have had a service hole of no greater than 60mm diameter drilled through its center.

Pryda Frame Fix is 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. (Refer to Durability section for more details). Fastener material type shall match the selected Pryda product. i.e., Galvanised fasteners with galvanised products. Stainless Steel fasteners with stainless steel products.

Pryda Frame Fix is suitable for Residential light timber frame dwellings designed in accordance with NZS3604. Frame Fix must be used in accordance with the installation procedures outlined in this document to provide structural support to 90 x 45 SG8 single or double top plates for a centrally located hole across plate / stud of max 60mm diameter. The Frame Fix is suitable for use on 90mm wide frames ONLY.

Only 1 Frame Fix is to be installed between a set of studs – multiple penetrations are not permitted. Any further penetrations should skip at least 1 bay of studs from the existing location.

If the Frame Fix is installed in accordance with this document, then the top plates in the section that the Frame Fix is installed, can be considered structurally adequate if the top plates were originally designed in accordance with NZS3604.

The Frame Fix must not be modified in any way, shape or form under any circumstances or conditions.

Note: There should be no large point loads (e.g., from girder trusses, floor beams, etc.) in the top plate sections containing the Frame Fix, or penetrations in general - typically large point loaded elements should be supported directly by studs. The Frame Fix is to be installed on continuous top plates and not over or adjacent to any splice joint.

## DURABILITY

The following table provides an easy guide when selecting a Pryda product corrosion protection finish that will meet and exceeds NZS 3604:2011 Table 4.1.

| ZONE          | LOCATION   |  | ENVIRONMENT | PRODUCT   |
|---------------|--|--|-------------|---|
| All Zones     | Fully enclosed walls, floors, and roof spaces            |  | Closed      | Pryda Zinc Coated Products Z275                   |
| Zones B and C | All subfloor fastenings more than 600mm above the ground | Vented 7000mm <sup>2</sup> /m <sup>2</sup> or LESS   | Sheltered   | Pryda Stainless Steel 304 Products <sup>(3)</sup> |
|               |  | Vented MORE than 7000mm <sup>2</sup> /m <sup>2</sup> | Exposed     | Pryda Stainless Steel 304 Products <sup>(3)</sup> |
|               | All subfloor fastenings within 600mm of the ground       | Sheltered and Exposed                                |             | Pryda Stainless Steel 304 Products <sup>(3)</sup> |
|               | All other structural fixings                             | Sheltered  |             | Pryda Stainless Steel 304 Products <sup>(3)</sup> |
| Exposed       |  | Pryda Stainless Steel 304 Products <sup>(3)</sup>    |             |   |
| Zone D        | All structural fixings                                   | Sheltered and Exposed                                |             | Pryda Stainless Steel 304 Products <sup>(3)</sup> |

Notes:

- 1.All Pryda galvanised products comply with NZS3604:2011 Table 4.2.
- 2.Refer to NZS3604:2011 for all environment definitions and Table 4.3 for nails or screw galvanizing.
- 3.Routine inspection and cleaning using soap and fresh warm water is an integral part of the ongoing care and maintenance of stainless steel to preserve its appearance.

## STORAGE AND HANDLING

Prior to use, the Pryda products shall be stored in a weatherproof environment and protected from moisture. Care must be taken to avoid any damage to the surface of the product protective galvanised coating and profile that may impact the performance.

## COMPLIES WITH THE FOLLOWING PROVISIONS OF THE NEW ZEALAND BUILDING CODE (NZBC)

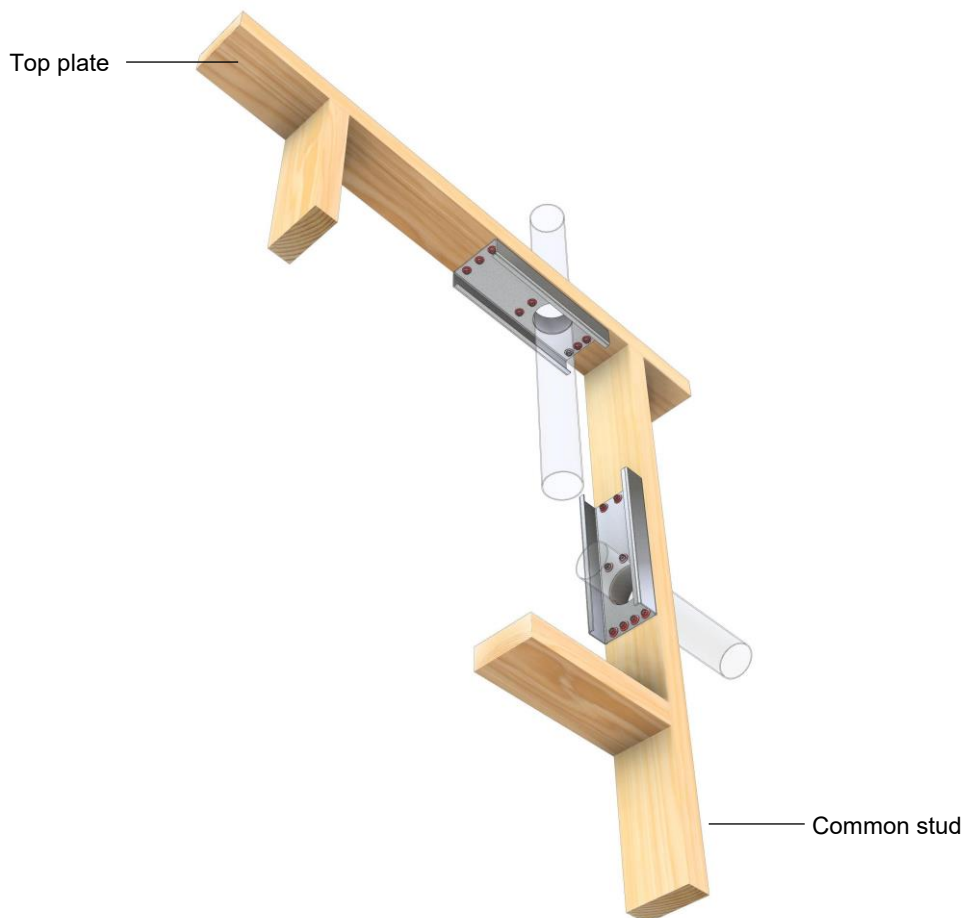
**Clause B1 STRUCTURE:** Performance B1.3.1, B1.3.2 and B1.3.4. Loads arising from self-weight, imposed gravity loads arising from use, earthquake, snow, and wind. (i.e., B1.3.3 (a), (b), (f), (g), and (h)). Only some may apply for a specific use of the component.

**Clause B2 DURABILITY:** Performance B2.3.1 (a) not less than 50 years and B2.3.2.

**Clause F2 HAZARDOUS BUILDING MATERIALS:** Performance F2.3.1.

## INSTALLATION

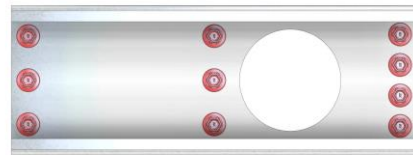
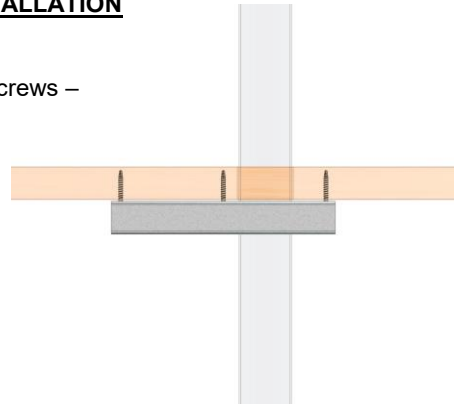
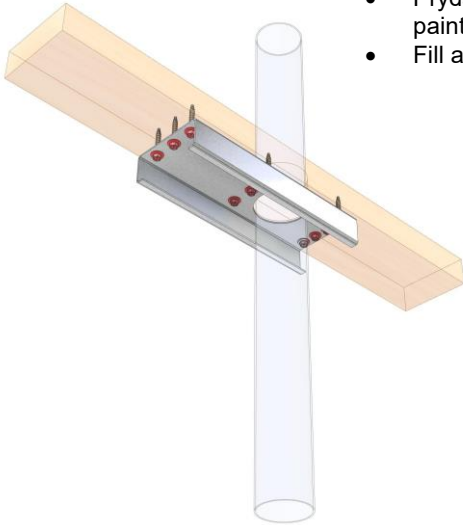
- Measure and mark the location on the top plate or stud to be reinforced, ensuring the centre of the hole is no closer than 80mm from the face of the stud or nog/dwang. The hole size should be no greater than 60mm diameter and must be centrally located across the 90mm plate width.
- **Important Note:** Ensure there are no timber defects (i.e., knots, wane, want, resin pockets) within 100mm of the Frame Fix or hole location.
- Suitable for single or double 90 x 45mm SG8 timber only for top plate installation.
- Suitable for single 90 x 45 mm SG8 common stud not supporting concentrated loads. Maximum stud height 2700mm with minimum 1 row of nog/dwang at mid-point.
- The PFF shall be fitted to the inside of the frame leaving clean faces on both outside edges of the timber.
- **Double top plates:** When being used as a top plate stiffener with top plate packer, PFF shall be fixed with Pryda 14G x 75mm screws. All holes shall be filled.
- **Single top plate or stud:** With stud or single top plate applications, PFF shall be fixed with Pryda Red Head 12G x 35mm screws. All holes shall be filled.
- Only 1 Frame Fix is to be installed between a set of studs – multiple penetrations are not permitted. Any further penetrations should skip at least 1 bay of studs from the existing location.
- Only 1 Frame Fix is to be installed per stud – multiple penetrations are not permitted.



### **SINGLE TOP PLATE OR COMMON STUD INSTALLATION**

Use:

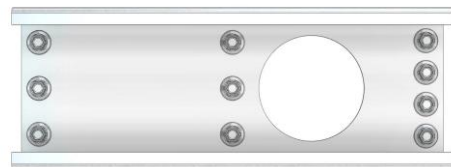
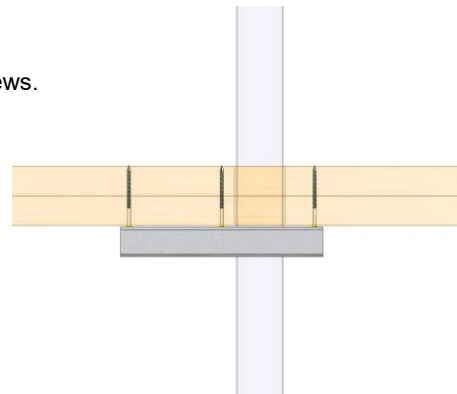
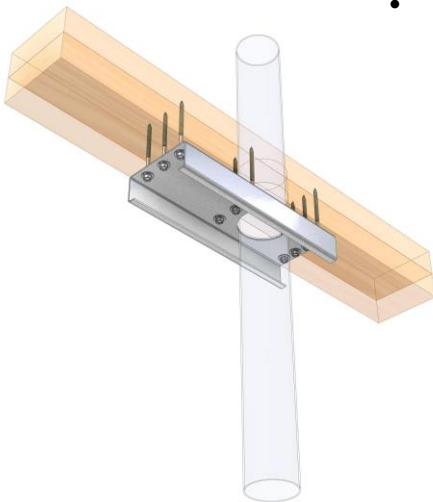
- Pryda 12G x 35mm Timber Connector screws – painted red head.
- Fill all holes.



### **DOUBLE TOP PLATES INSTALLATION**

Use:

- 10 x Pryda 14G x 75mm Type 17 screws.
- Fill all holes.



| Contact details                        |   |
|--|---|
| Manufacture location                   | Overseas  |
| Legal and trading name of manufacturer | Ray Staiger Limited   |
| Legal and trading name of importer     | 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   |
| Importer NZBN                          | 9429039833129   |