

# NZ PRYDA BRACING ANCHOR (PBA)

**CodeMark**   
CMNZ-10028

Designed to tie timber studs to bottom plates to prevent uplift.

## FEATURES AND BENEFITS

**SIMPLE:** Ease and speed of installation. Slotted hole on bottom of bracket provides some flexibility in bolt and bracket position installed.

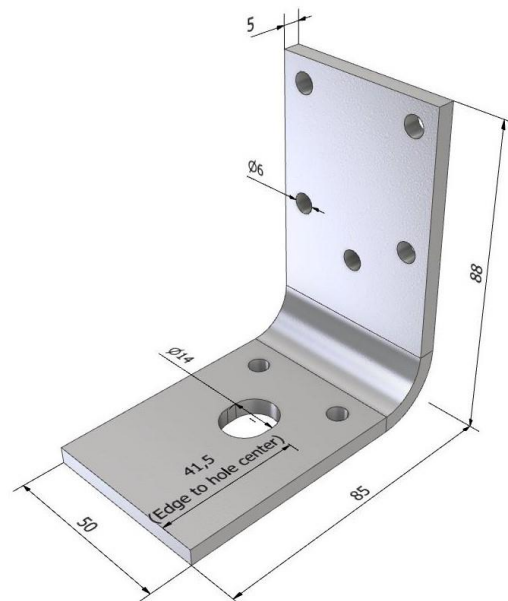
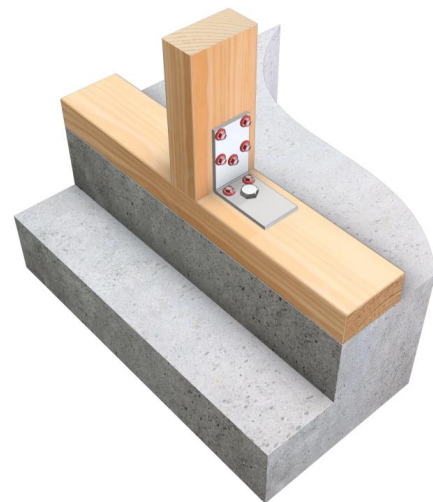
**FAST:** No checking of timber to ensure flush fitting of board. Can be used for fully closed external and internal walls.

**DURABLE:** The PBA is a one-piece anchor for either side of stud and manufactured with 5mm thick galvanised steel.

## SPECIFICATIONS

<b>PRODUCT CODE</b>	PBA
<b>STEEL</b>	G250
<b>THICKNESS</b>	5mm
<b>CORROSION RESISTANCE</b>	Electro-Galvanised to Z275
<b>FASTENERS</b>	Pryda 12G x 35mm Timber Connector Screw, M12 anchor bolt.
<b>SIZE</b>	88 x 85 x 50mm

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



\*All dimensions shown are in "mm."

## 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.

Pryda Bracing Anchor is only available in electro-galvanised to Z275, therefore suitable for “Closed” environment.

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.

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.

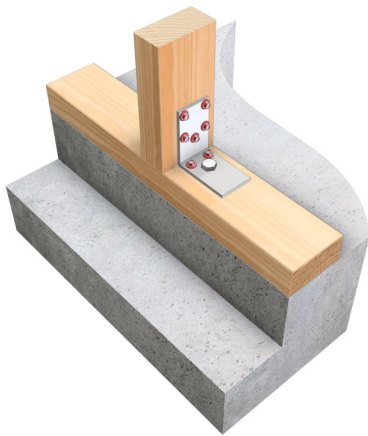
**Clause B2 DURABILITY:** Performance B2.3.1 (a) not less than 50 years and B2.3.2.

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

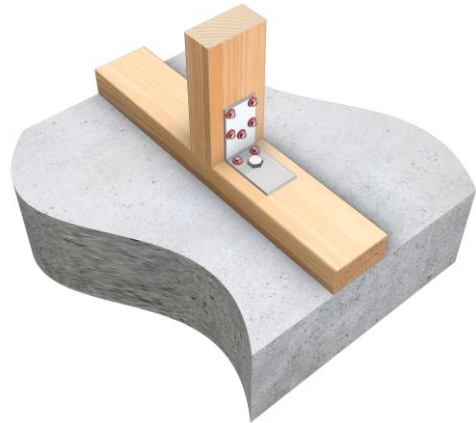
## APPLICATION AND SCOPE OF USE

Pryda Bracing Anchor 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. (Refer to Durability section for more details).

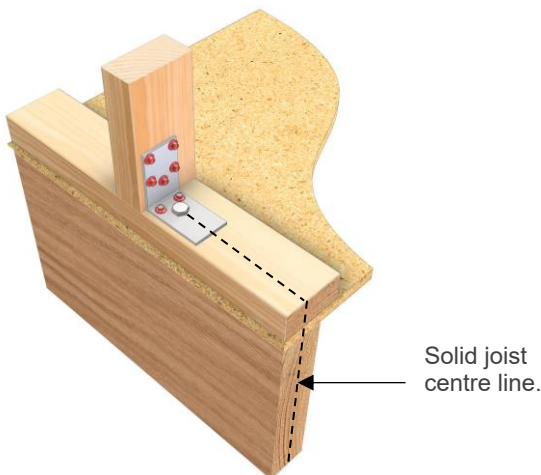
The NZ Bracing Anchor is for fixing timber studs to timber bottom plates to prevent uplift with a capacity of 10.7 kN in accordance with NZS 3604. The NZ Bracing Anchor incorporates a slotted hole for receiving an M12 anchor fixing for the timber bottom plate fixing to a timber or concrete floor in accordance with NZS 3604.



**External Wall** Minimum concrete edge distance shall be maintained in accordance with the proprietary fixing manufacturer's requirements.

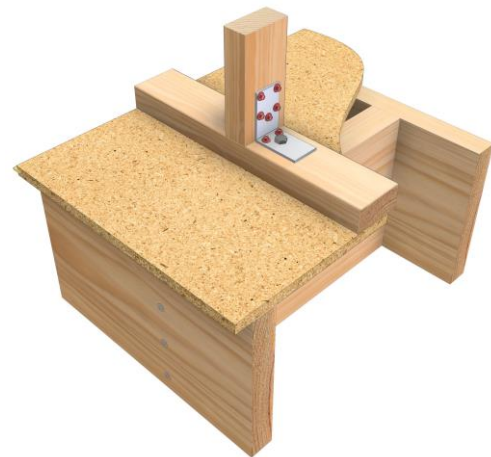


**Internal Wall** PBA shall be fixed centrally to the wall frame.



Solid joist  
centre line.

**External Wall** PBA shall be fixed centrally over a solid joist using an M12 x 150mm galvanised coach screw.



**Internal Wall** PBA shall be fixed centrally on the bottom plate using an M12 x 150mm galvanised coach screw ensuring that screw is fixed centrally into a solid joist. Extra solid blocking may be required to achieve solid fixing. Solid blocking must be connected to resist tie down requirement.

## DESIGN CAPACITIES

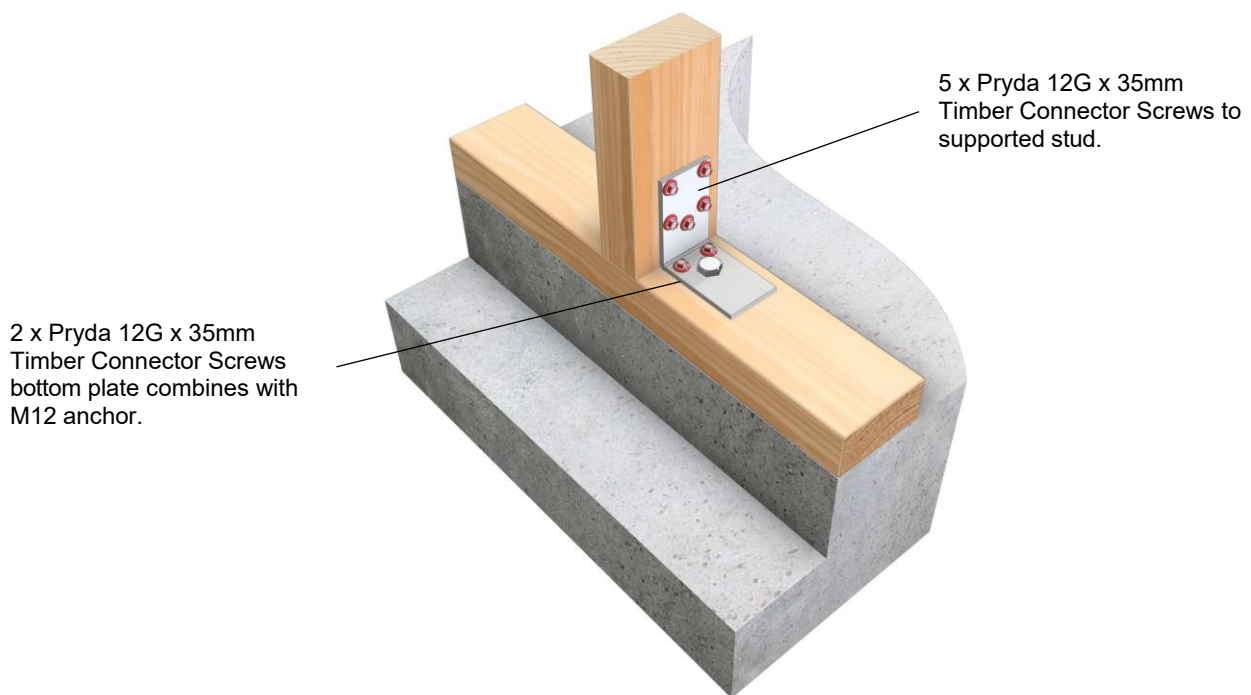
The NZ Bracing Anchor is for fixing timber studs to timber bottom plates to prevent uplift<sup>(2)</sup>.

The PBA can satisfy the hold down requirements and can be a substitute for the pre-fitted Wrap around strap.

JOINT GROUP	LOAD CAPACITIES(KN) FOR SINGLE PBA FOR GIVEN LOAD CASE
	1.2G + Wd or Wind uplift
JD5	10.7

Notes:

- Design values are based on SG8 timber and for timber which meets minimum JD5 timber as defined in AS/NZS 1720.
- The above values (for screws) are only applicable:
  - if the M12 anchorage into the supporting member has an equivalent or better capacity.
  - All screws are set 25mm in from timber edge.



## INSTALLATION

1. Identify where PBA is to be located from application details. Ensure PBA fits within the wall frame plane.
2. Present PBA to junction of bottom plate and stud ensuring a snug fit to both surfaces referring to relevant floor installation detail shown in application details to ensure correct placement across face of bottom plate.
3. Mark position of bolt or M12 screw using the PBA as a guide and remove PBA. Ensure the selected anchorage into the supporting member has an equivalent or better capacity to PBA. When connecting to a solid beam, ensure the M12 bolt or screw is central to the beam. For concrete slab connection near edge, minimum concrete edge distance shall be maintained.
4. Drill appropriate size hole for bolt or screw with reference to supplier's data sheet for correct hole size and use of the fastening.
5. Place the PBA into position and fasten home the screw or bolt to a snug fit, ensuring face of PBA is tight against face of stud.
6. Screw 5 x Pryda 12G x 35mm Pryda Timber Connector screws into the stud flange.
7. Re-check the tightness of the M12 screw or anchor bolt.
8. Finally screw 2 x Pryda 12G x 35mm Timber Connector screws into the bottom plate flange.

## IMPORTANT

Pryda CODEMARK certificate CMNZ10028 certifies Pryda Bracing Anchor with use of NZ Pryda Timber Connector Screws. Other fixing methods are outside the scope of the CODEMARK.

Installing proprietary anchors correctly, refer to the manufacturer's mechanical anchoring information guide for specific installation and performance details to ensure that proprietary anchors are installed correctly.

When installing anchors, ensure the:

- Required slab edge distance is achieved for non-cracked concrete tension– it is possible to blow out the slab edge during installation if the anchor is too close. Anchor capacity may also be reduced due to minimum edge distance.
- Correct depth for required embedment depth to achieve capacity rating.
- Capacity rating of selected anchor to supporting member has an equivalent or better capacity to PBA.
- Hole diameter is suitable for an M12 anchor.
- Hole is thoroughly cleaned out after drilling.
- Screw is not overtightened – refer to recommended torque settings.

Contact details	
Manufacture location	Overseas
Legal and trading name of manufacturer	Shanghai Zenith International Trading Company Co LTD
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