

NZ NAIL-ON DIAGONAL CLEAT

CodeMark 
CMNZ-10031

Hammer fixed, easy to use nail-on plates for many support applications.

FEATURES AND BENEFITS

SIMPLE: Can accommodate multiple width timber sizes.

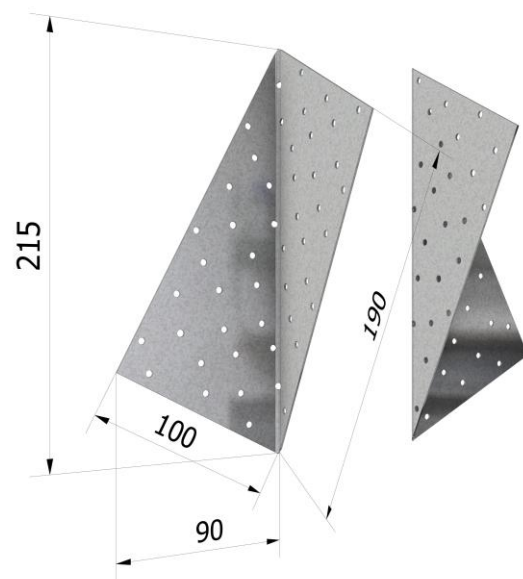
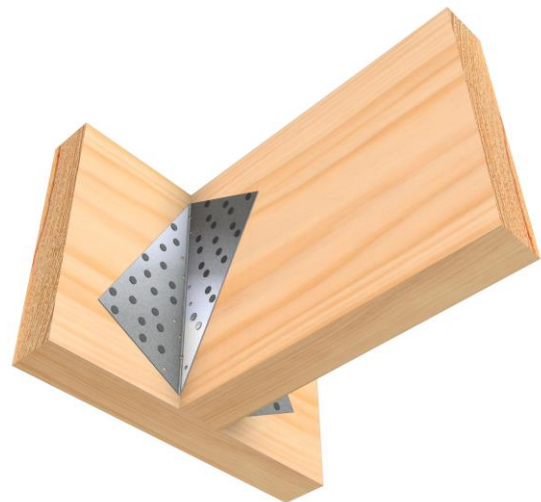
FAST: Fix using Pryda 35 x 3.15mm Timber Connector Nails.

DURABLE: 1mm thick, Z275 steel. Suitable for high load applications such as support cleats when used in pairs.

SPECIFICATIONS

PRODUCT CODE	NPD
STEEL	G300
THICKNESS	1mm
CORROSION RESISTANCE	Z275
FASTENERS REQUIRED	Pryda 35 x 3.15mm Timber Connector Nails
HEIGHT	215mm
WIDTH	90mm (single bracket)

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



*All dimensions shown in "mm".

NAIL-ON DIAGONAL CLEAT

PRODUCT CODE	MATERIAL	SIZE	QUANTITY
NPD	G300 Z275 Galvanised Steel	90 x 215mm	10 LH and 10 RH per ctn.

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 Nail-On Diagonal cleat is only available in 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 ² /m ² or LESS	Pryda Stainless Steel 304 Products ⁽³⁾	
		Vented MORE than 7000mm ² /m ²	Pryda Stainless Steel 304 Products ⁽³⁾	
	All subfloor fastenings within 600mm of the ground	Sheltered and Exposed		Pryda Stainless Steel 304 Products ⁽³⁾
		All other structural fixings	Sheltered	
Exposed			Pryda Stainless Steel 304 Products ⁽³⁾	
Zone D	All structural fixings	Sheltered and Exposed		Pryda Stainless Steel 304 Products ⁽³⁾

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.

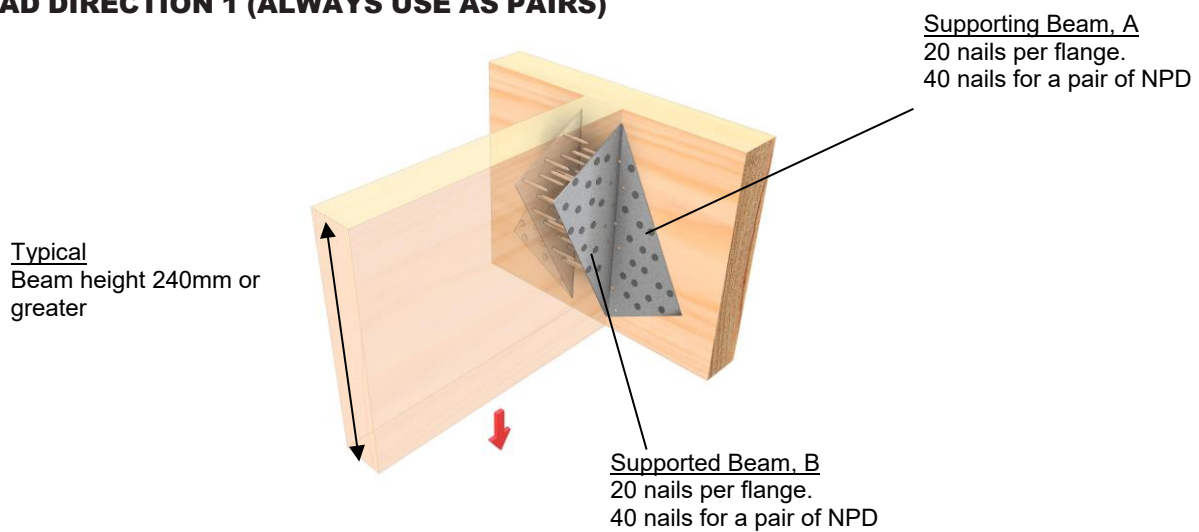
APPLICATION AND SCOPE OF USE

Pryda Nail-on Diagonal Cleats 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).

- Beam to beam
- Joist to beam

NPD DESIGN CAPACITIES AND APPLICATIONS

LOAD DIRECTION 1 (ALWAYS USE AS PAIRS)



LOAD CASE	LIMIT STATE DESIGN ϕN_j (kN) FOR A PAIR OF NPD FOR TIMBER JOINT GROUP	
	JD5	
1.35G	9.3	
1.2G+1.5Qf	11.2	
1.2G+1.5Qr	12.5	
1.2G+Wdn or Wind Uplift	18.5	

Notes:

1. Capacities based on having 40 nails to supporting Beam A and 40 nails to supported Beam B. Use Pryda 35 x 3.15mm Timber Connector Nails. Must be used in PAIRS.
2. Use 75 x 3.15mm diameter galvanised flat head nails when nailing into poles. (e.g., girt to pole fixing)
3. Minimum beam thickness shall be equivalent or greater than nail length.
4. Recommended beam height 240mm or greater.
5. Capacities based on vertical and concentric loading.
6. NPD supports variable widths. Width should be limited by the designer to prevent eccentric loading on the bracket.

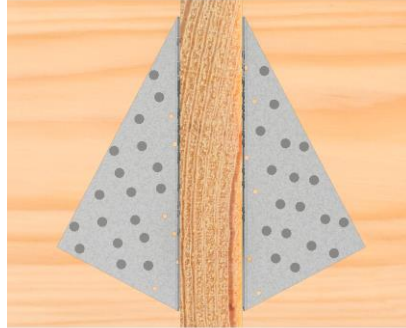
INSTALLATION FOR BEAM TO BEAM OR TRUSS TO TRUSS CONNECTION

STEP 1



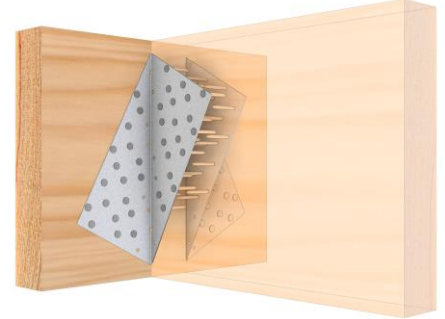
- Position the supported beam to supporting beam, ensuring both beams are vertically plumb, and all edges are aligned.

STEP 2



- Position a pair of NPD at right angles on either side of the supported beam. NPD shall be located centrally to beam height. Fix each NPD to each timber member with 20 x Pryda 35 x 3.15mm Timber Connector Nails. 40 nails per bracket.

STEP 3



- Repeat the same fixing method to adjacent NPD. Note orientation of each NPD and connection must be installed with a PAIR of NPD.

FASTENING NPD

BUILD WITH CONFIDENCE

Where possible, hand nailing with Pryda Timber Connector nails is always preferred, why?

- Pryda Timber Connector Nails are forged in one piece, unlike clouts that are two pieces soldered together, meaning the head can pop off
- Pryda Nails are the correct diameter, ensuring a tight fit in pre-punched holes = a stronger connection
- Design values and testing have all been conducted using Pryda Timber Connector Nails
- Hand hammered nails ensure correct nail positioning and drive depth (not driven too shallow or too deep)

Machine driven nails are not recommended for fixing NPD

Contact details	
Manufacture location	New Zealand
Legal and trading name of manufacturer	Fairfit Engineering
Legal and trading name of supplier	Pryda New Zealand -a Division of ITW New Zealand
Supplier address for service	23-29 Poland Road, Wairau Valley, Auckland, 0627, New Zealand
Supplier website	Pryda.co.nz
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Supplier phone number	0800 88 22 44
Supplier NZBN	9429039833129