

NZ MITRE PLATES

The easy way to connect creeper trusses to hip trusses.

FEATURES AND BENEFITS

FAST: Pre-bent to suit common 45 degree angle connections on both the bottom and top chord.

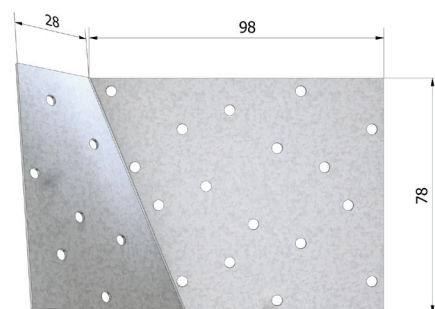
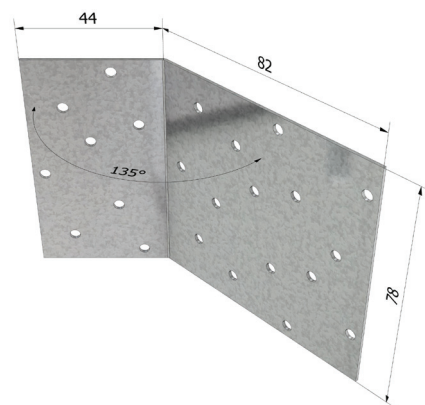
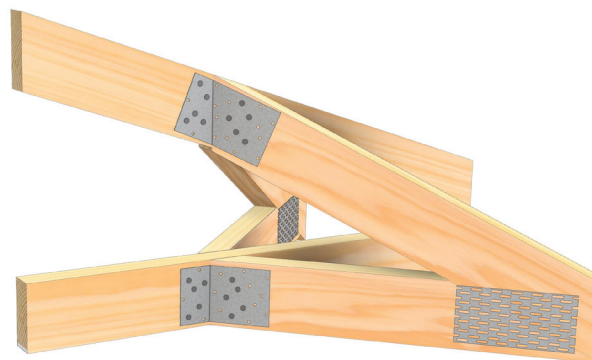
STRONG: 1.0mm G300 Galvanised Steel.

VERSATILE: Can also be used with rafters and come with a left and right hand version to pick up the creeper from both sides of the hip.

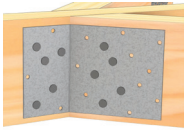
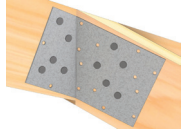
SPECIFICATIONS

STEEL	G300
THICKNESS	1.0mm
CORROSION RESISTANCE	Z275
FASTENERS	Pryda 35 x 3.15mm Timber Connector Nails OR Paslode machine driven nails if notes on the last page are followed.

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



MITRE PLATES

PRODUCT CODE	MATERIAL	SIZE	QUANTITY	CONNECTION TYPE
MT	G300 Z275 Galvanised Steel	78 x 126mm (flat profile)	20 (10 left, 10 right)	 Bottom Chord
MT15				 Top Chord

DESIGN CAPACITIES

When used to carry gravity loads or to resist wind uplift from creeper trusses or rafters Pryda Hip Mitre Plates have the following design capacities when fixed with five 35 x 3.15mm Pryda Timber Connector Nails into both members. These values include the capacity of three 2.8 x 65mm nails that are normally installed prior to fixing the Mitre Plate. Refer creeper to hip connections in AS4440-2004.

Note: These capacities assume that the supported creeper trusses or rafters are located on each face of the supporting hip truss.

LOAD TYPE	DESIGN CAPACITIES Φ Nj (kN)		
	SEASONED TIMBER		
	JD3	JD4	JD5
1.35G	3.7	2.6	2.1
1.2G+1.5Qr	4.7	3.3	2.8
1.2G+Wd or WIND UPLIFT	7.0	4.9	4.1

Notes:

- Design values are based on SG8 timber and for timber which meets minimum JD5 timber as defined in AS/NZS1720.
- Limit State Design capacities are shown in table to resist Wind Uplift.

PRYDA TIMBER CONNECTOR NAILS

PRODUCT CODE	MATERIAL	TYPE	SIZE	PACK CONFIGURATION	QUANTITY
OSNGB	Galvanised Steel	Flat Head	35 x 3.15mm	500g cardboard packs x 10	5kg

DURABILITY

The following table provides an easy guide when selecting a Pryda product corrosion protection finish that will meet and exceeds NZS3604:2011 Table 4.1.

Pryda Mitre Plates are 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 sub-floor fastenings more than 600mm above the ground	Vented 7000mm ² /m ² or LESS	Sheltered	Pryda Stainless Steel 304 Products ⁽³⁾
		Vented MORE than 7000mm ² /m ²	Exposed	Pryda Stainless Steel 304 Products ⁽³⁾
	All sub-floor fastenings within 600mm of the ground	Sheltered and Exposed		Pryda Stainless Steel 304 Products ⁽³⁾
	All other structural fixings	Sheltered		Pryda Stainless Steel 304 Products ⁽³⁾
		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.

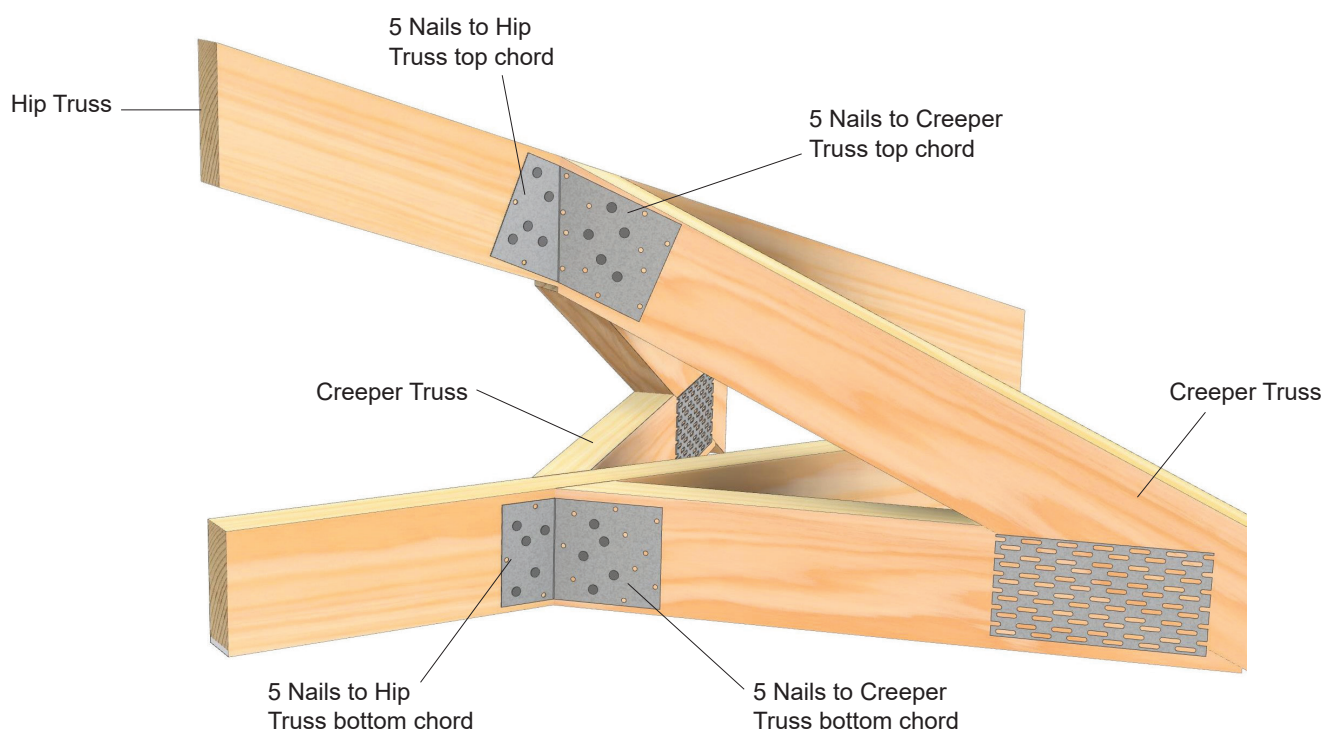
APPLICATIONS AND SCOPE OF USE

Pryda Mitre Plates have been specifically designed to simplify connection between creeper trusses intersecting a hip truss at 45°. The connection is not limited to trusses but can also be used with rafters or other roof members with similar connection criteria of a typical creeper connection and within the Mitre Plate design capacities for any particular load case.

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 NZS3604:2011 Table 4.1. (Refer to Durability section for more details).

INSTALLATION

1. Refer to AS4440-2004. Nail the creeper top chord and bottom chord to the hip truss using 65 mm long nails through the full thickness of the creeper truss members.
2. Place the long leg of the Mitre Plate against the creeper truss so that the bend is tight into the joint between the creeper and hip truss. Fix 5/35 x 3.15mm Pryda Timber Connector Nails to the creeper, and to the hip truss.



FASTENING MITRE PLATES

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 NAILING MT AND MT15

Paslode's PPN-Master positive placement nailer replicates the accuracy of hand nailing by using a probing tip to fire nails through holes in the connector. Pryda supports the use of the PPN-Master for these products. Unlike traditional nailing tools, no design capacity reduction is required when using the PPN-Master. It is important to adopt the fastener holes only for fixing FBF* brackets. Fixing through steel is not recommended.

Screw hardened, electro galvanised Paslode nails that are appropriate include:

- Duo-Fast C SHEG 32 x 2.3mm (D40810)
- Paslode 32 x 2.5mm (B25110)
- Duo-Fast 32 x 2.5mm (D41060)
- Pas Coil 32 x 2.5mm SHEG 2 Pack (B25250)

Contact details	
Manufacture location	New Zealand
Legal and trading name of manufacturer	Exim Engineering Pty 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