

# MITRE PLATES

## FEATURES AND BENEFITS

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

**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

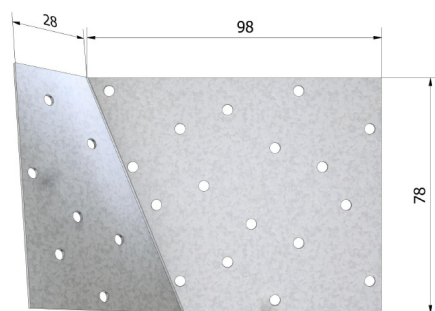
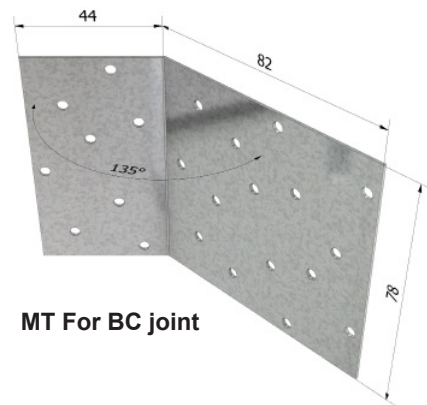
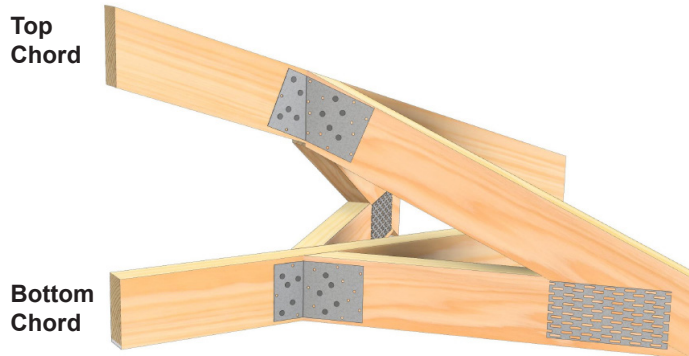
STEEL	G300
THICKNESS	1.0mm
CORROSION RESISTANCE	Z275
FASTENERS	Pryda 35 x 3.15mm Timber Connector Nails OR Paslode machine driven nails if notes on the last page are followed.

The easy way to connect creeper trusses to hip trusses



**AS1684 COMPLIANT**

- Designed and tested in accordance with Australian standards (AS1649)
- Minimum G300 Z275 Galvanised Steel



## 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 / 35x3.15 Pryda Timber Connector nails to the creeper, and to the hip truss.

## MITRE PLATES

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

## 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
OSNG				1kg cardboard packs x 10	10kg
TPOSNG				5kg Trade pack x 1	5kg

## 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 $\Phi$ NJ (KN)			
	SEASONED TIMBER			
	JD3	JD4	JD5	JD6
1.35G	3.7	2.6	2.2	1.7
1.2G+1.5Qr	5.0	3.5	3.0	2.3
1.2G+Wd or WIND UPLIFT	7.4	5.2	4.4	3.4

### IMPORTANT:

READ THIS DATASHEET IN CONJUNCTION WITH PRYDA CONNECTORS & TIE-DOWN CONNECTORS DESIGN GUIDE AND REFER TO ESSENTIAL NOTES AND GENERAL NOTES.

## 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 prepunched 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 to shallow or too deep)

### USING PASLODE MACHINE DRIVEN NAILS WITH UN-PUNCHED QHS6U AND QHS9U

32x2.3 mm Duo-Fast C SHEG (ie: screw hardened electro galvanized) machine driven nails (code D40810) or equivalent may be used instead of the specified 35x3.15 mm Pryda Timber Connector Nails to fix selected Pryda connectors provided that the following requirements are strictly adhered to:

- Design capacities shall be reduced by 20% using the same number of nails as specified for the connectors and
- Nails shall be driven at nail spacings and edge distances closely following the dimple pattern on un-punched QHS6U and QHS9U.

Extreme care must be taken when using machine driven nails as the prevailing installation practices tend to inhibit compliance with the above requirements.

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

- Duo-Fast C SHEG 32 x 2.3 (D40810)
- Paslode 32 x 2.5 mm (B25110)
- Duo-Fast 32 x 2.5 mm (D41060)
- Pas Coil 32 x 2.5 SHEG 2 Pack (B25250)
- Impulse 32 x 2.5 SHEG (B40020)



**LOOKING FOR MORE DETAILS OR OTHER CONNECTORS IN OUR RANGE?**

SEE OUR CONNECTORS & TIE-DOWN CONNECTORS DESIGN GUIDE AVAILABLE AT [PRYDA.COM.AU](https://www.pryda.com.au)