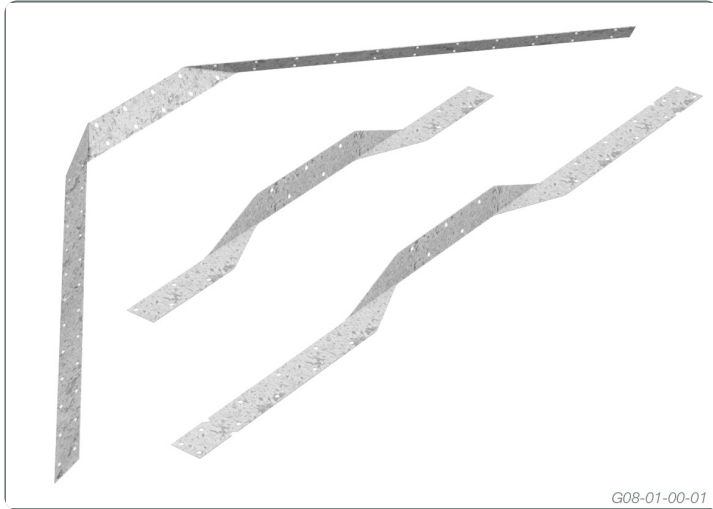


## Cyclone Tie



These pre-punched and formed galvanised steel timber connectors:

Are quick and easy to install.

Provide sufficient capacity for many cyclonic areas.

Are available in 400mm, 600mm and 900mm lengths.

### APPLICATION - HAND-NAILED

To ensure that the Multinail Cyclone Tie develops the maximum capacity to withstand wind uplift, the Cyclone Tie should be secured tightly and installed in the following manner:

**Step 1.**  
Place the Cyclone Tie across the top of the member to be fastened and nail through the central locating hole.

**Step 2.**  
Use a hammer to bend the Cyclone Tie over the edges and down the sides of the top member.

**Step 3.**  
Using one hand-nail (minimum) fix each leg of the Cyclone Tie to the face of the supporting member.

**Step 4.**  
Use a hammer to fold the excess of each tie leg under the supporting member and secure each leg with 4/30mm x 2.8Ø Multinail nails to the underside.

Alternatively apply hand-nailed nails to the face of the supporting member to achieve the capacity indicated in the table below, for 6 Multinail nails per leg.



Cyclone Tie shown with each leg wrapped under the top plate and secured using 4/30mm x 2.8Ø Multinail nails.



Cyclone Tie shown with each leg nailed down the face of the top plates and secured using 6/30mm x 2.8Ø Multinail nails.

## APPLICATION - GUN-NAIL

To ensure that the Multinail Cyclone Tie develops the maximum capacity to withstand wind uplift, the Cyclone Tie should be secured tightly and installed in the following manner:

**Step 1.**  
Place the Cyclone Tie across the top of the member to be fastened and gun-nail through the central locating hole.

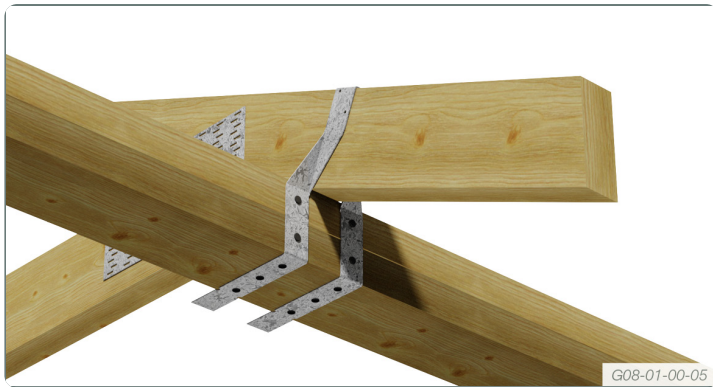
**Step 2.**  
Use a hammer to bend the Cyclone Tie over the edges and down the sides of the top member.

**Step 3.**  
Using one gun-nail (minimum) fix each leg of the Cyclone Tie to the top plate and ribbon plate.

**Step 4.**  
Use a hammer to fold the excess of each tie leg under the supporting member and secure each leg with 3/gun-nails to the underside.

Alternatively apply gun-nails to the face of the supporting member to achieve the capacity indicated in the table below, for 6/gun-nails per leg.

Note: All nails need to be 32mm long x 2.5Ø hardened screw shank nails and comply to AS2334-1980 or ASTM F1667-15.



Cyclone Tie shown with each leg wrapped under the top plate and secured using 1/gun-nails into each leg to ribbon plate and top plate and 3/gun-nail each leg to the underside of top plate



Cyclone Tie shown with each leg nailed down the face of top plates and lintel, and secured using 6/gun-nails

## FIXING - GUN-NAIL

Note:

- Nail-Gun driven nails are to be more than 5mm from any metal edge or hole and spaced minimum 15mm apart across the grain with 10mm timber edge distance
- Gun-Nails are not to be driven at excessively high pressure, as they may punch through the steel product. Nail heads should be flush with the metal surface.
- Care must be taken when using Nail-Gun driven nails through metal products. Refer to the Nail-Gun supplier's safety recommendations before operating these tools. Items to consider include safety clothing, eye protection and the angle of the nail to the metal should be 90°. Multinail does not accept any responsibility for injuries incurred, if Nail-guns are used for installing Multinail metal products.

## LIMIT STATE DESIGN LOAD

The following table shows the recommended Limit State Design capacities for Multinail Cyclone Ties.

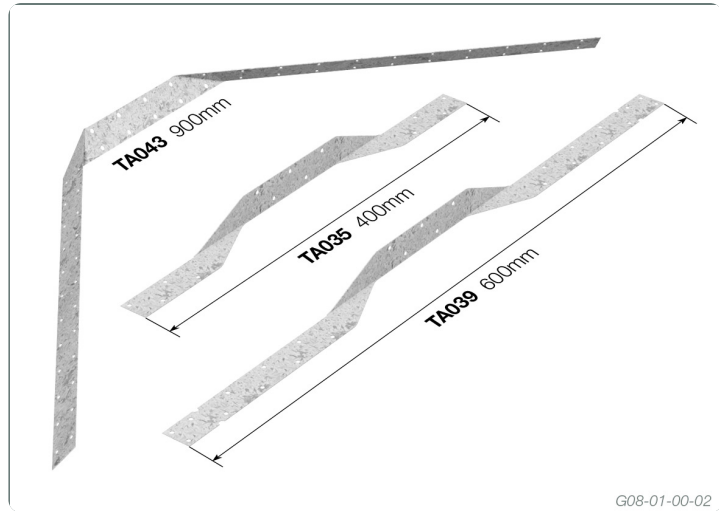
NOTE: The uplift in capacities are derived from AS1720-2010 and are for houses where failure is unlikely to affect an area greater than 25m<sup>2</sup>. For primary elements in structures other than houses or elements in a house for which failure would be greater than 25m<sup>2</sup> these capacities must be multiplied by 0.94. For primary joints in essential services or post disaster buildings multiply by 0.88. If required, two Cyclone Ties can be fixed to one truss - one inside the top plate and one outside of the top plate. Uplift capacity may then be doubled.

Joint Group	J2/HD3	J3/JD4	JD5
With 4 nails (each leg wrapped under top plate)	11.4	11.4	9.8
With 6 nails (each leg nailed down face)	11.4	9.3	7.6

DESCRIPTION AND PACKAGING

Manufactured from 1.0mm Galvanised G300 Z275 Steel

Description	Product Code	Reference Code	Carton quantity	Carton kg.
400mm	TA035	CT400	100	8.9
600mm	TA039	CT600	100	10.5
600mm - No Nail Holes	CTN600	CTN600	100	10.5
900mm	TA043	CT900	100	19.6
900mm - No Nail Holes	TA008W	CTN900	100	19.6
30mm x 2.8Ø Multinail Nails (TA302)				



G08-01-00-02

Due to continual product improvement Multinail Australia Pty Ltd. reserves the right to change the product/s depicted - both in description and specification. This document has to be read in conjunction with Multinail's Technical Manual.