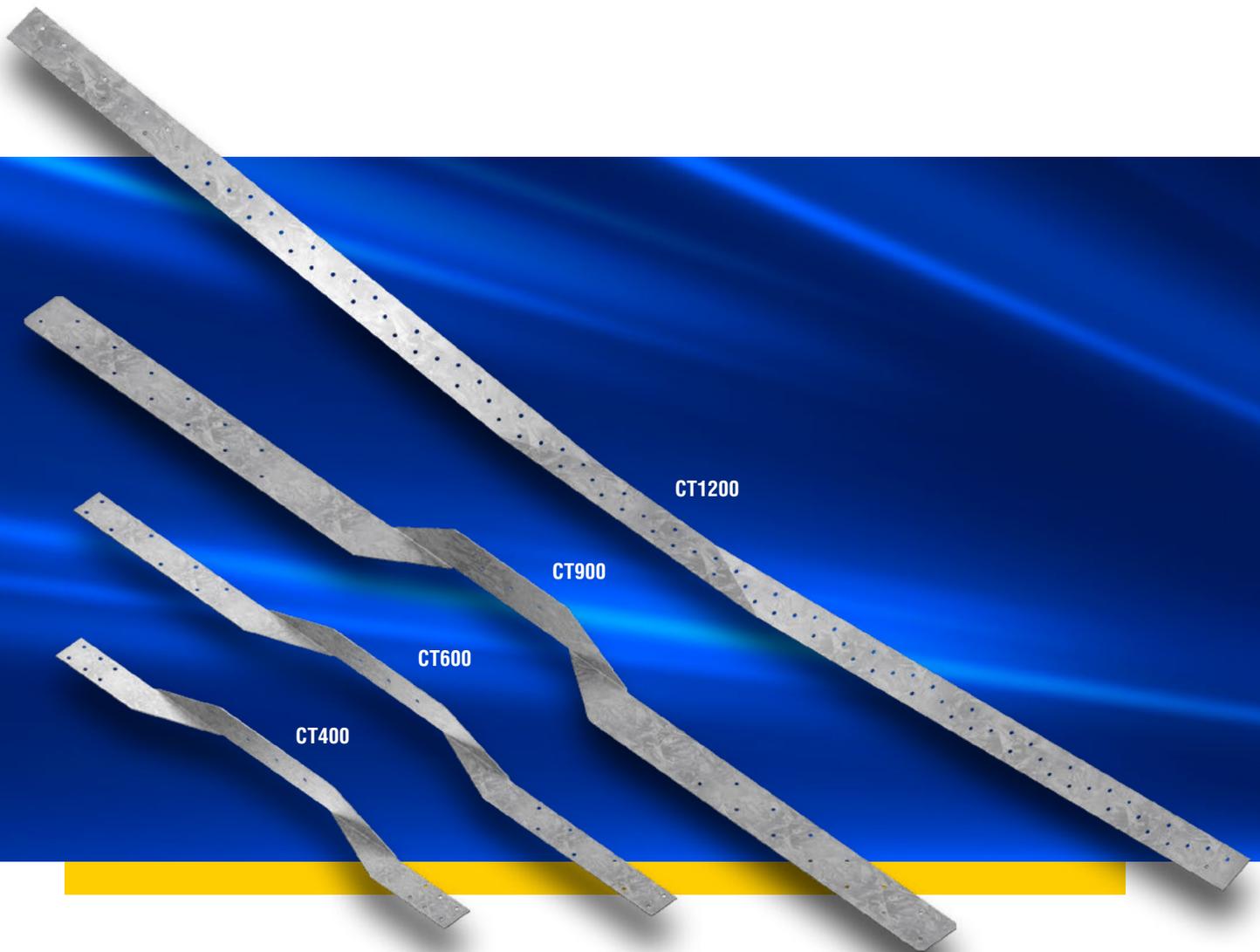
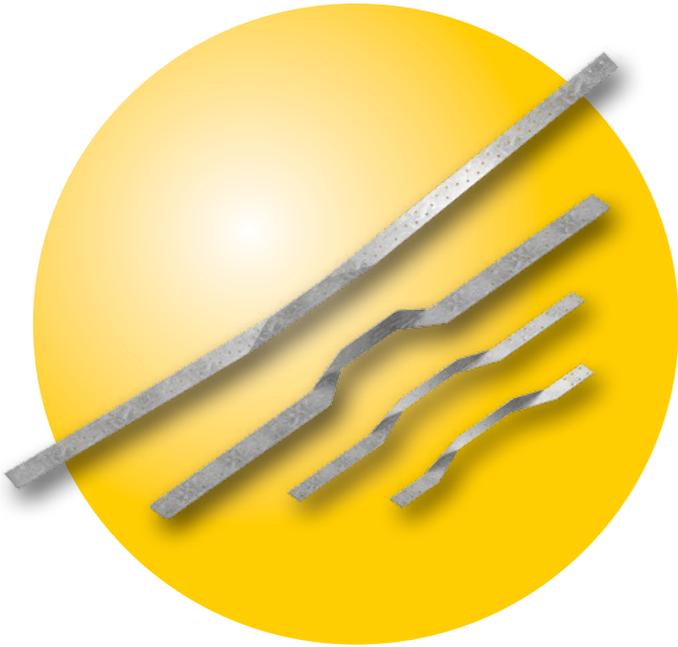


CYCLONETIE



creating the **advantage**



FOR ROOF SECURITY UNDER EXTREME WIND CONDITIONS

APPLICATION:

CycloneTies are used to secure purlins, rafters and trusses to top plates and timber lintels in areas subject to cyclonic and high wind conditions. To achieve design capacity, CycloneTies must be fixed with MiTek 30 x 2.8mm hot dipped galvanized reinforced head nails.

Uses

- To tie down purlins, rafters and trusses to top plates and timber lintels in cyclonic and high wind areas.

ADVANTAGES

- Pre-bent legs for quick installation.
- Pre-punched holes for easy fixing.
- Available in 400mm, 600mm, 900mm and 1200mm lengths.

SPECIFICATIONS:

Steel Grade	G300
Thickness (Total Coated)	0.8mm for CT1200 1.0mm for CT400, CT900 1.2mm for CT600
Galvanized Coating	Z275
Nails	MiTek 30 x 2.8mm hot dip galvanized reinforced head
Product Code	CT400 CT600 CT900 CT1200

This Engineered Building Product complies with

AS/NZS 1170 Loading Code.

CycloneTie complies as a metal strap with minimum net section area of 21mm² and the corresponding alternative uplift capacities in AS 1684 may be used in design within the confines of this standard.

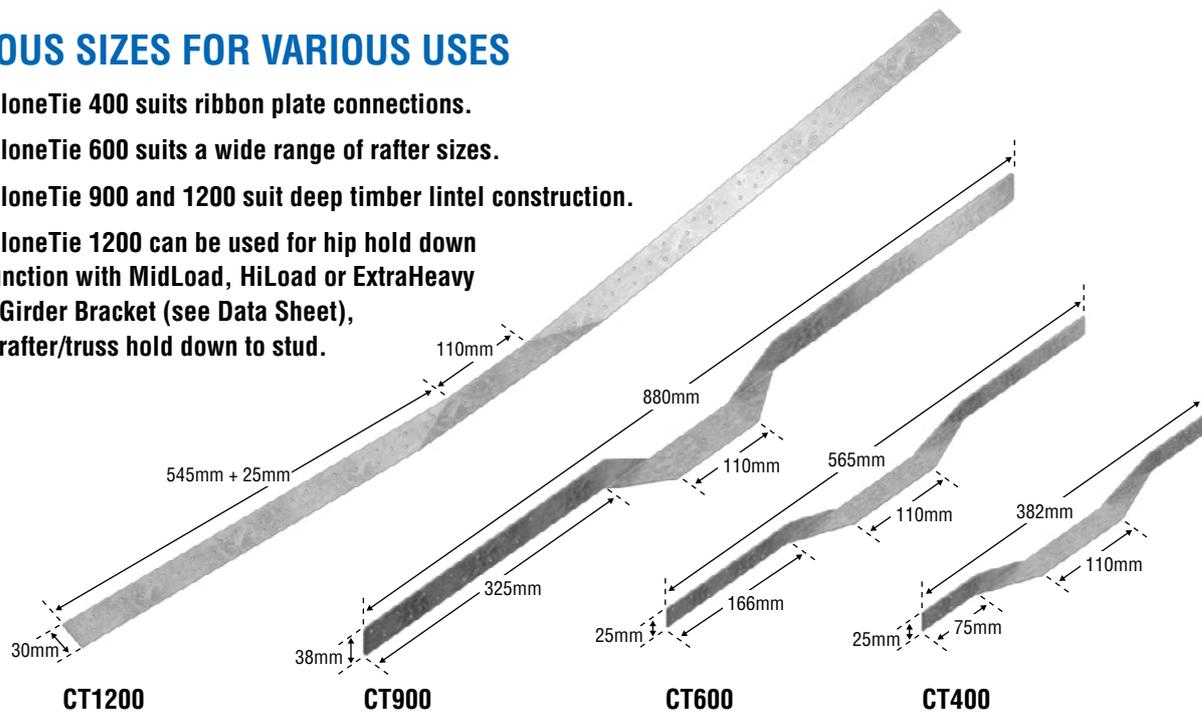
VARIOUS SIZES FOR VARIOUS USES

The CycloneTie 400 suits ribbon plate connections.

The CycloneTie 600 suits a wide range of rafter sizes.

The CycloneTie 900 and 1200 suit deep timber lintel construction.

The CycloneTie 1200 can be used for hip hold down in conjunction with MidLoad, HiLoad or ExtraHeavy HiLoad Girder Bracket (see Data Sheet), and for rafter/truss hold down to stud.



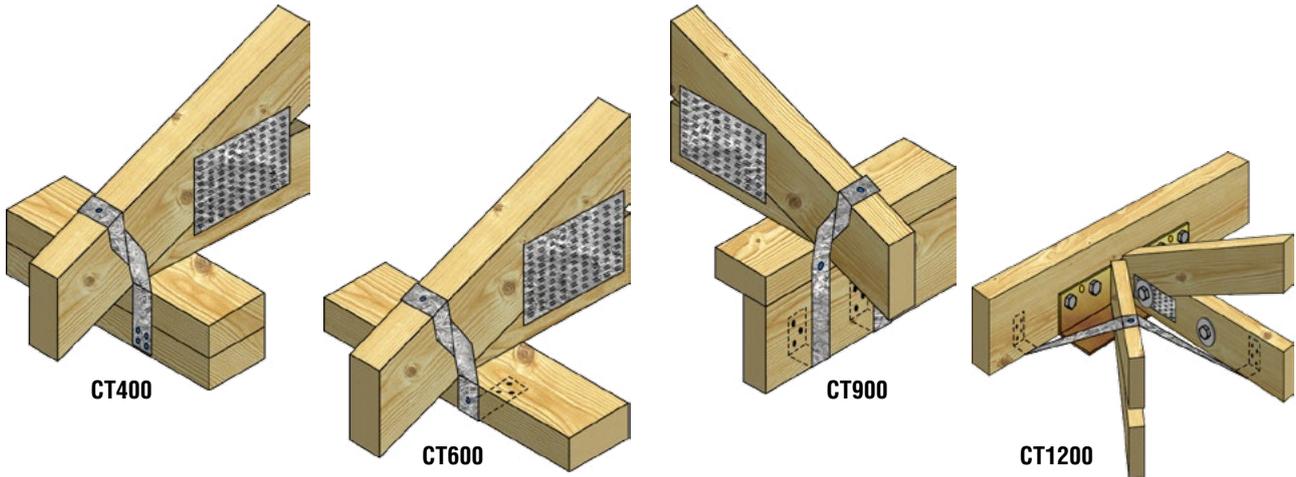
CYCLONETIE LOAD DATA:

Limit State Design Capacity (kN)											
CycloneTie	Fixing Method	Timber Joint Group of Support									
		J2	J3	J4	J5	J6	JD2	JD3	JD4	JD5	JD6
CT400	Face Fixed 4 nail/leg	8.7	6.2	4.4	3.3	2.5	9.4	8.7	6.2	5.1	3.9
	Face Fixed 6 nail/leg	11.4	8.2	5.8	4.4	3.3	12.3	21.1	8.6	7.1	5.4
CT900	Face Fixed 4 nail/leg	8.7	6.2	4.4	3.3	2.5	9.4	8.7	6.2	5.1	3.9
	Face Fixed 6 nail/leg	11.4	8.2	5.8	4.4	3.3	12.3	12.1	8.6	7.1	5.4
	Face Fixed 8 nail/leg	12.7	10.4	7.3	5.5	4.1	12.7	12.7	11.2	9.3	7.1
	Wrap Under	12.7	12.7	10.9	8.2	6.1	12.7	12.7	12.7	12.7	9.6
CT1200	Face Fixed/Truss-Stud 4 nail/leg	8.7	6.2	4.4	3.3	2.5	9.4	8.7	6.2	5.1	3.9
	Face Fixed/Truss-Stud 6 nail/leg	11.2	8.2	5.8	4.4	3.3	11.2	11.2	8.6	7.1	5.4
	Face Fixed/Truss-Stud 8 nail/leg	11.2	10.4	7.3	5.5	4.1	11.2	11.2	11.2	9.3	7.1
	Wrap Under	11.2	11.2	10.9	8.2	6.1	11.2	11.2	11.2	11.2	9.6
	Hip Hold Down	Recommended design capacity is 15% (Dead Load only, Dead + Live Load) or 30% (Dead + Wind Load) of selected Universal Girder Bracket capacity									

Values in this table incorporate the Category 1 capacity factor (ϕ) for houses. For other categories, multiply the design capacities by the following factors. Refer to AS 1720.1 for a full definition of each category.

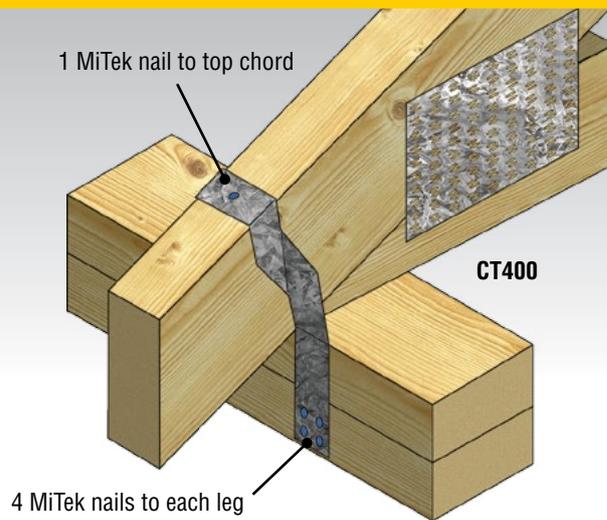
Design capacities have been obtained from laboratory testing and procedures given in AS 1720.1.

Category	1	2	3
Adjustment factor	1.00	0.94	0.88



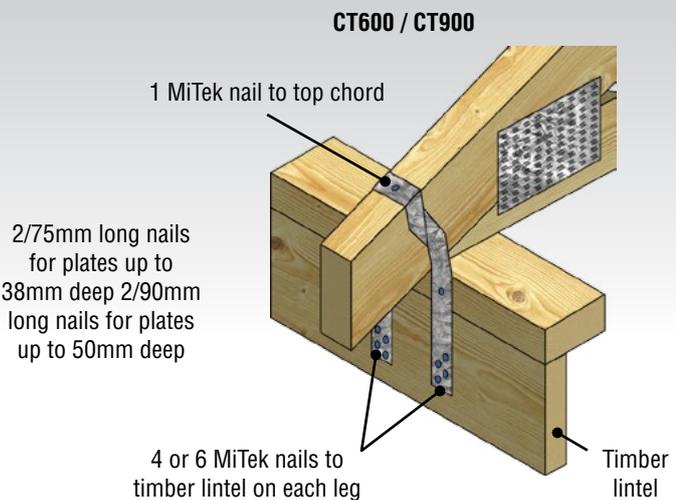
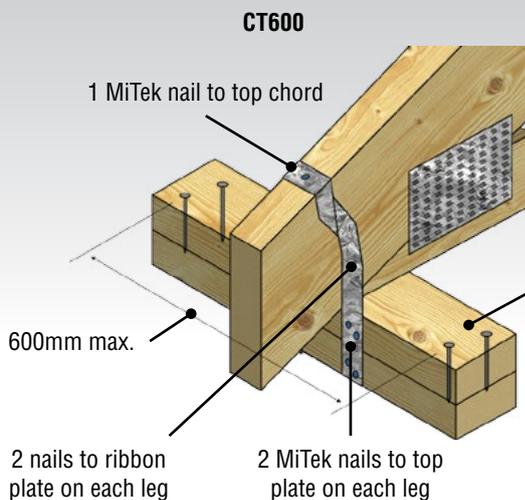
CT400 (Face Fixed Only)

1. Bend CycloneTie over rafter/truss top chord, move CycloneTie along rafter/truss top chord until legs make contact with wall top plate.
2. Fix CycloneTie to top of rafter/truss top chord with one MiTek nail. Bend legs vertical and fix each leg with 4 MiTek nails to lower top plate 1. Bend CycloneTie over rafter/truss top chord, move CycloneTie along rafter/truss top chord until legs make contact with wall top plate.
2. Fix CycloneTie to top of rafter/truss top chord with one MiTek nail. Bend legs vertical and fix each leg with 4 MiTek nails to lower top plate.



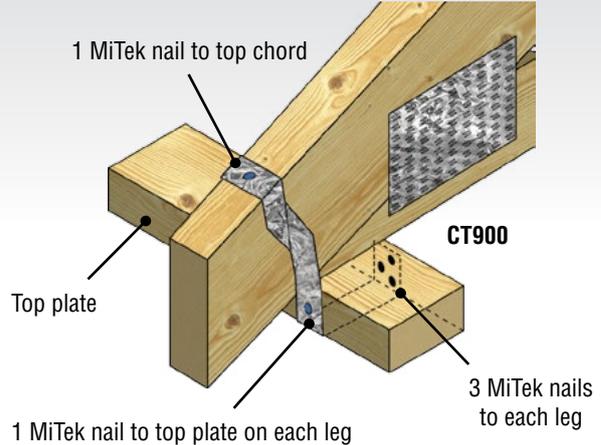
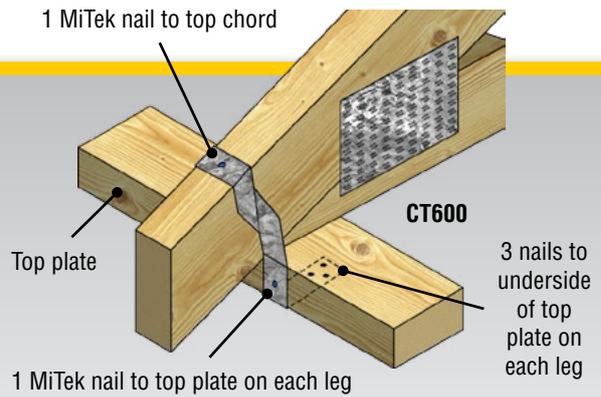
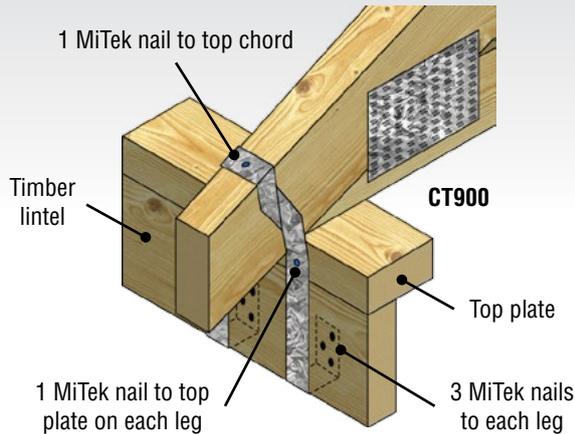
CT600/CT900 (Face Fixed)

1. Bend CycloneTie over rafter/truss top chord, move CycloneTie along rafter/truss top chord until legs make contact with wall top plate or timber lintel.
2. Fix CycloneTie to top of rafter/truss top chord with one MiTek nail. Bend legs vertical and fix MiTek nails to each leg as required in the table to achieve the design capacity.



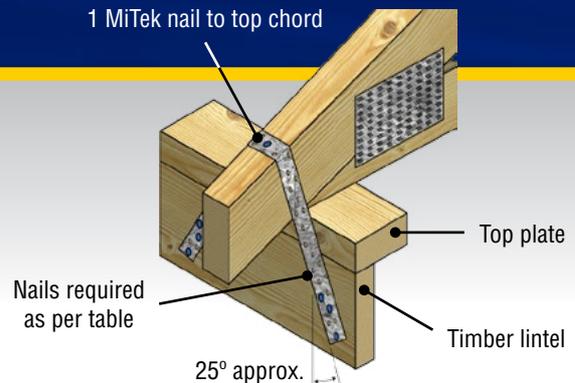
CT600/CT900 (Wrap Under)

1. Bend CycloneTie over rafter/truss top chord, move CycloneTie along rafter/truss top chord until legs make contact with wall top plate.
2. Fix CycloneTie to top of rafter/truss top chord with one MiTek nail. Bend legs vertical and fix one MiTek nail in each leg to side of top plate.
3. Bend legs under bottom edge of the timber lintel or top plate and fix MiTek nails to each leg as required to achieve the design capacity.



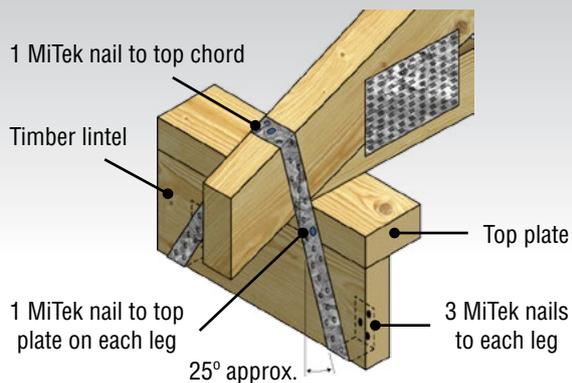
CT1200 (Fixing Type A - Face Fixed)

1. Bend CycloneTie over rafter/truss top chord, move CycloneTie along rafter/truss top chord until legs make contact with wall top plate.
2. Fix CycloneTie to top of rafter/truss top chord with one MiTek nail. Bend legs and tap both sides of CycloneTie lightly to make a tight bend, then make sure legs are approximately 25° to the vertical.
3. Fix CycloneTie to lintel with MiTek nails to each leg as required in the table to achieve the design capacity.

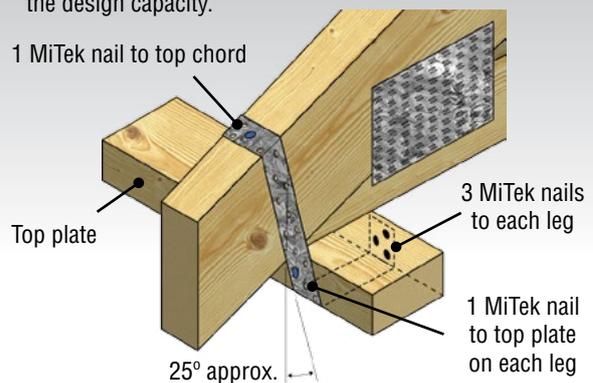


CT1200 (Fixing Type B - Wrap Under)

1. Repeat step 1 and 2 of Fixing Type A.
2. Fix one MiTek nail in each leg to top plate.

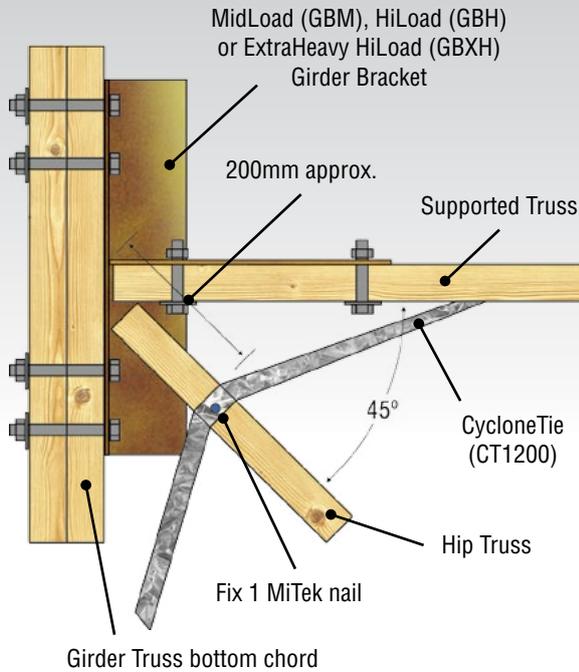


3. Bend legs under bottom edge of the timber lintel or top plate and fix MiTek nails to each leg as required to achieve the design capacity.

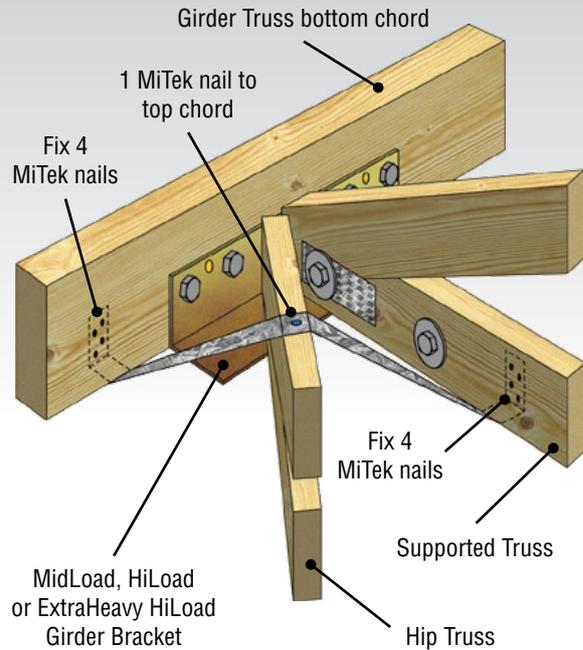


CT1200 (Fixing Type C - Hip Hold Down)

1. Secure supported truss to Girder Bracket and locate the hip truss into position. Bend CycloneTie 1200 over the top chord of the hip truss and move about 200mm along top chord and fix with one MiTek nail.



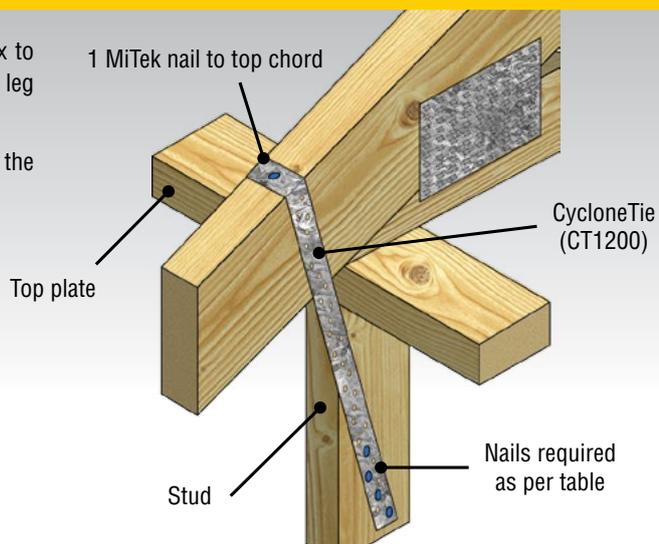
2. Bend one leg under the bottom chord of the incoming girder and the other under the bottom chord of the supporting girder. Tap slightly to make a tight bend then wrap them under the chords and fix with 4 MiTek nails as shown in diagram below.



CT1200 (Rafter/Truss to Stud)

Bend CycloneTie 1200 over rafter/truss top chord and fix to stud as shown in diagram below with MiTek nails to each leg as required in the table to achieve the design capacity.

Structural TieDown Strap TD223030 can be used in lieu of the CycloneTie 1200.



For more information about MiTek's Engineered Building Products or any other MiTek products or your nearest licensed MiTek fabricator, please call your local state office or visit: mitek.com.au



CT 05/15

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