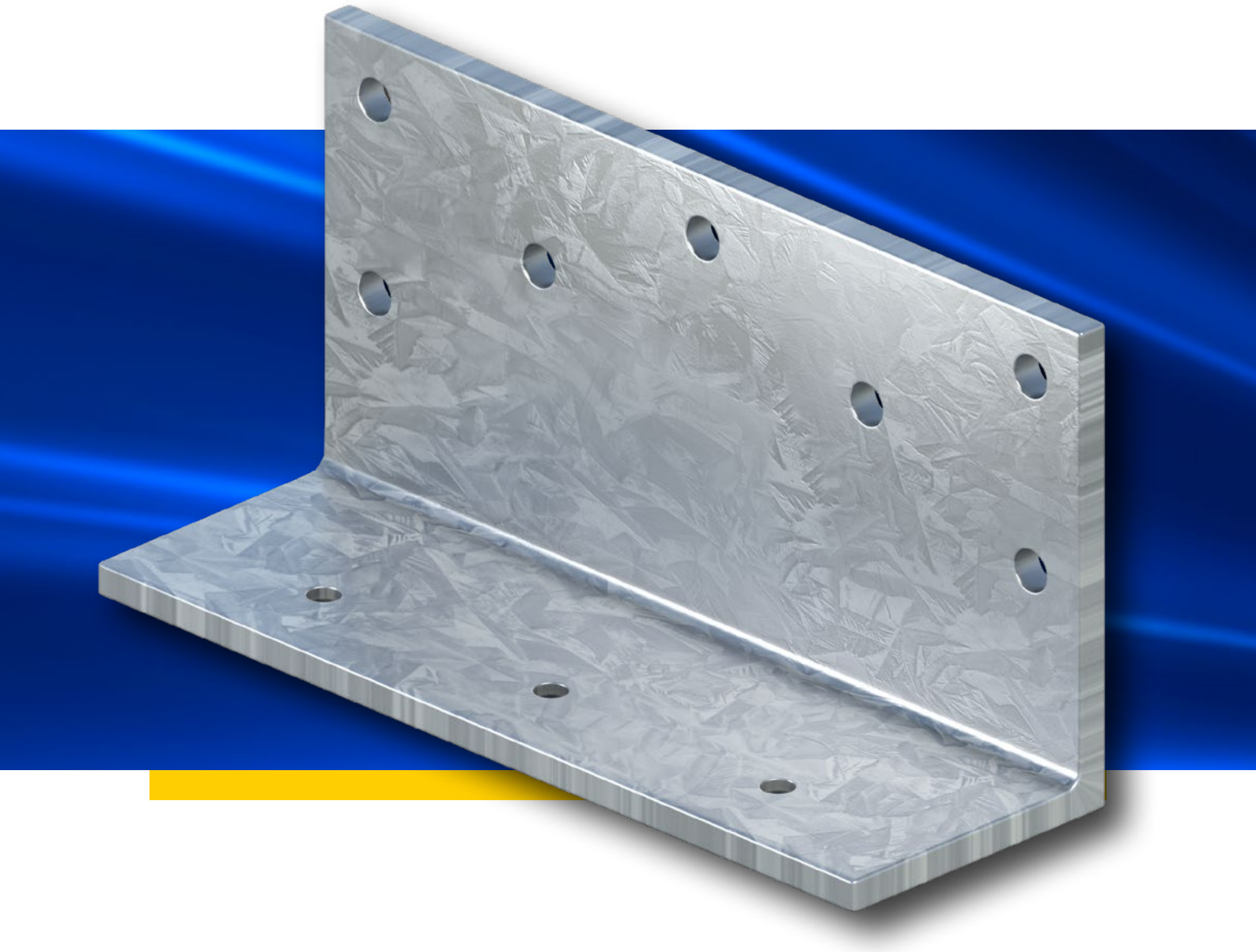
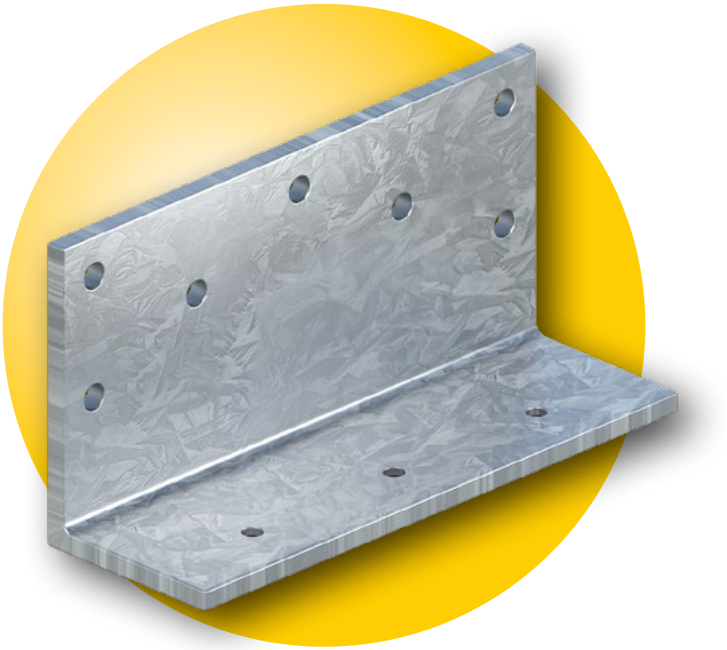
ENGINEERED BUILDING PRODUCTS

UniLedger



MiTek®

creating the advantage



FOR SUPPORTING ROOF AND FLOOR MEMBERS AT AN ANGLE

APPLICATION:

The MiTek UniLedger has been designed to support floor and roof members at an angle other than 90° to the support.

USES

- UniLedgers provide a seat to support floor joists at an angle to floor beams.
- UniLedgers are also used to support hipend trusses in small poly end roofs.

ADVANTAGES

- Quick and easy to install.

SPECIFICATIONS:

Steel Grade	300PLUS
Thickness (Total Coated)	5mm
Galvanized Coating	Z275
Screws	MSA1430 - MiTek No. 14 x 30mm anti-split self-drilling HD - Qty 4
	10g x 30mm Type 17 bugle head screw - Qty 1
Product Code	UL7550

This Engineered Building Product complies with the National Construction Code Series and Australian Standards.

LOAD DATA

The total downward capacity of the UniLedger supporting one or more members are shown in Tables 1 and 2 based on the joint group of the supporting member. The maximum uplift wind capacity of each CycloneTie fixing on an incoming truss is 2.25kN. The maximum number of incoming supported trusses is limited to four.

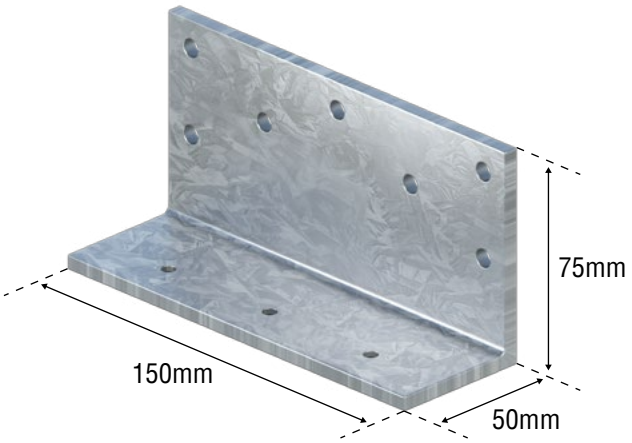


Table 1. Limit State Design Capacity of UniLedger for Fixing with 4 Screws into Supporting Member (kN)

Load Type	Timber Joint Group of Supporting Member									
	J2	J3	J4	J5	J6	JD2	JD3	JD4	JD5	JD6
DL Only	5.8	4.1	2.9	2.1	1.4	7.3	5.8	4.1	2.9	2.1
DL + Floor LL	7.0	5.0	3.5	2.6	1.7	8.9	7.0	5.0	3.5	2.6
DL + Roof LL	7.8	5.6	4.0	2.9	1.9	9.0	7.8	5.6	4.0	2.9
DL + WL (down)	9.0	8.3	5.9	4.3	2.7	9.0	9.0	8.3	5.9	4.3

Table 2. Limit State Design Capacity of UniLedger for Fixing with 7 Screws into Supporting Member (kN)

Load Type	Timber Joint Group of Supporting Member									
	J2	J3	J4	J5	J6	JD2	JD3	JD4	JD5	JD6
DL Only	9.0	7.2	5.1	3.7	2.4	9.0	9.0	7.2	5.1	3.7
DL + Floor LL	9.0	8.7	6.2	4.5	2.9	9.0	9.0	8.7	6.2	4.5
DL + Roof LL	9.0	9.0	6.9	5.0	3.2	9.0	9.0	9.0	6.9	5.0
DL + WL (down)	9.0	9.0	9.0	7.5	4.8	9.0	9.0	9.0	9.0	7.5

FIXING CONFIGURATION

Values in this table incorporate the Category 1 capacity factor (Ø) for houses. For other categories, multiply the design capacities by the following factors. Refer to AS1720.1 for a full definition of each category.

Category	1	2	3
Adjustment factor	1.00	0.94	0.88

FLOOR CONNECTION

1. Position UniLedger against the supporting beam, waling plate or ledger and fix with either 4 or 7 MiTek MSA1430 screws to obtain the required design capacities in Tables 1 and 2.
2. Place supported member on the UniLedger and fix with one 10 gauge x 30mm Type 17 bugle head screw in the counter-sunk hole provided.
3. Fix one 75 x 3.05mm skew nail to top of supported member.

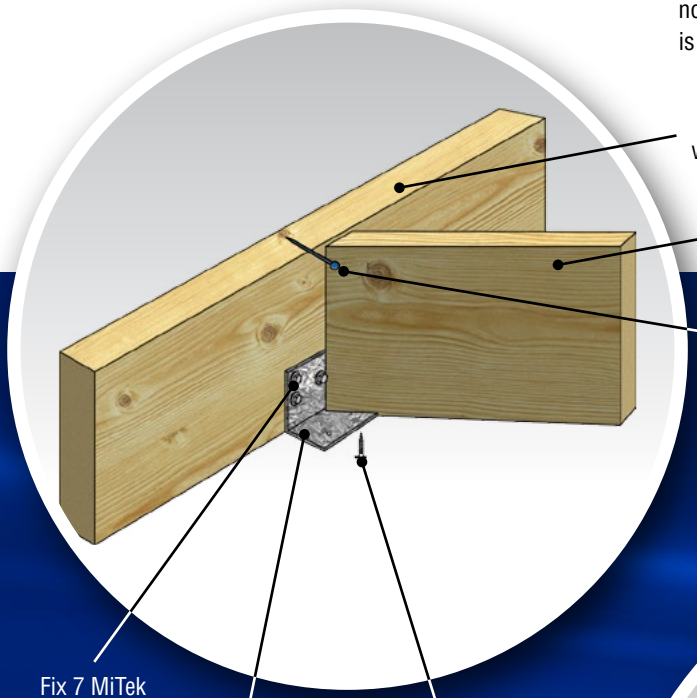
ROOF CONNECTION

The UniLedger can support up to four members such as in a poly end roof truss layout.

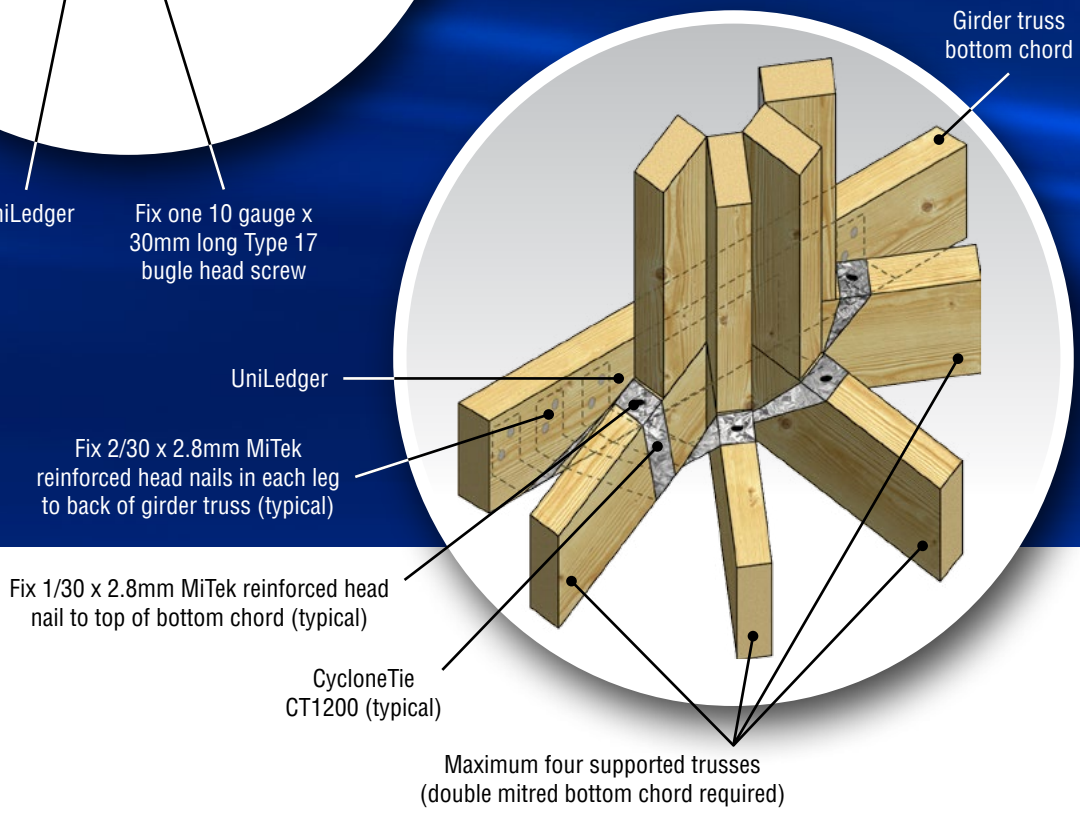
1. Position the UniLedger against the supporting girder truss and fix with either 4 or 7 MiTek MSA1430 screws to obtain the required design capacities in Tables 1 and 2.
2. Place supported trusses on the UniLedger and fix each truss to girder truss with one CycloneTie CT1200 as shown. The legs of each CycloneTie must be wrapped under the girder truss and fixed to the back of the bottom chord.

NOTE: Where ceiling is to be fixed directly to bottom chord, notching of supported member to obtain a better ceiling line is acceptable.

Floor Connection



Roof Connection



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**

UL7550 07/15