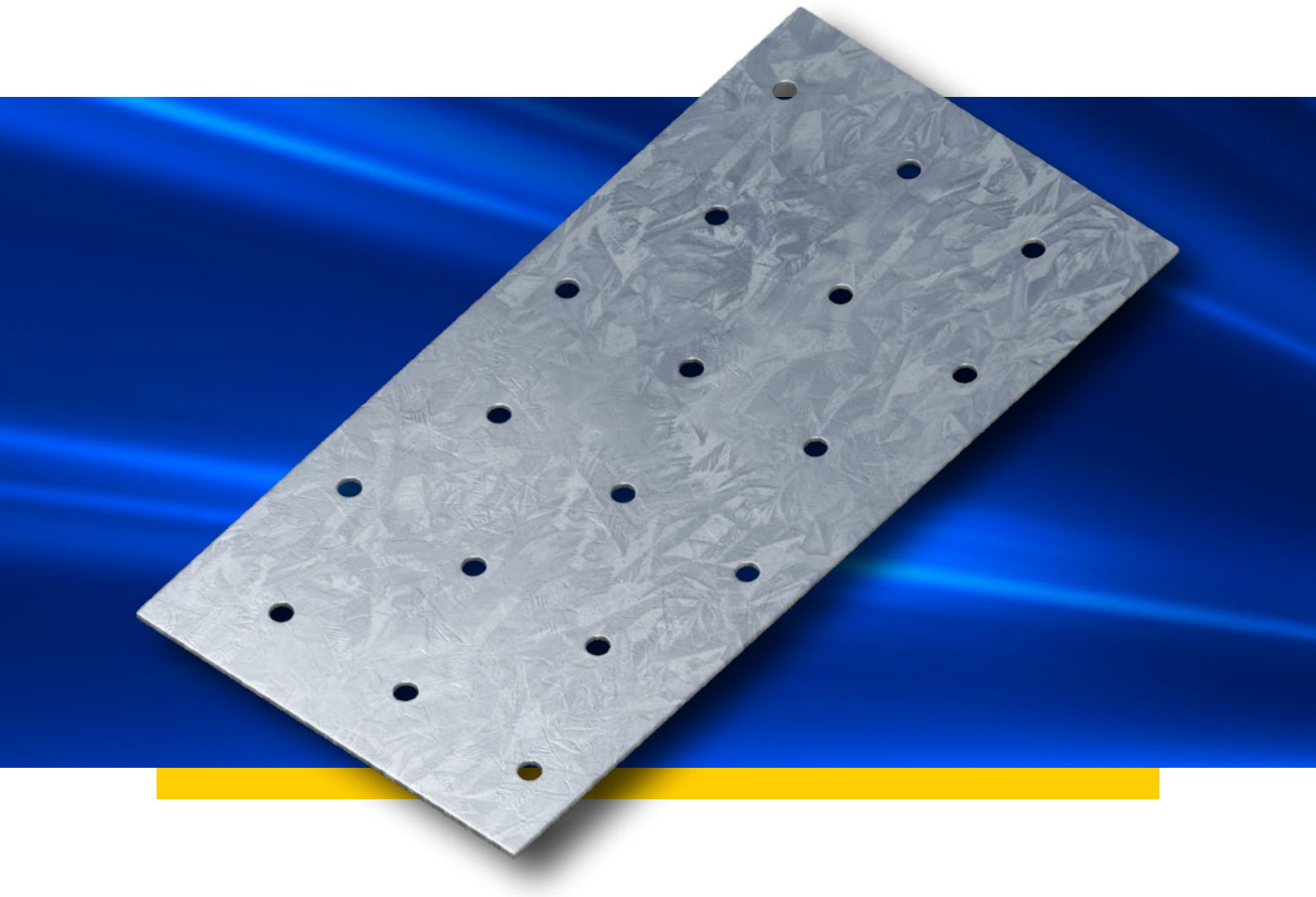
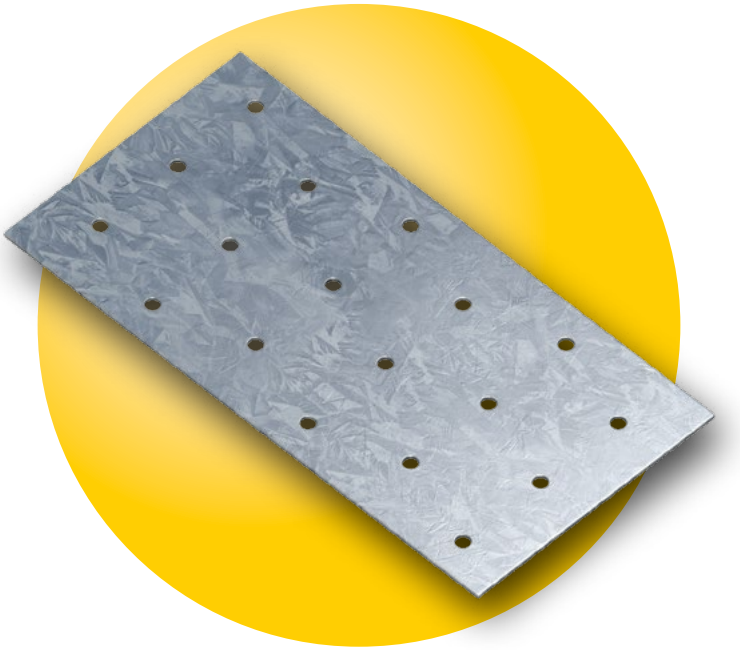
ENGINEERED BUILDING PRODUCTS

NAILONPLATE



MiTek®

creating the advantage



FOR TIMBER TO TIMBER JOINING

APPLICATION:

NailonPlates have been designed to join timber together in a number of ways using MiTek 30 x 2.8mm hot dipped galvanized reinforced head nails or MSA1430 MiTek No. 14 x 30mm anti-split self-drilling HD galvanized screws.

USES

- Joining timber side-by-side.
- Butting together of timber members.
- Framing for formwork and house frames.
- Joining wall frames at top plate level.
- Manufacture of gates and fences.
- Repairs to timber structures in situ.
- Strengthening of timber structures in situ.

ADVANTAGES

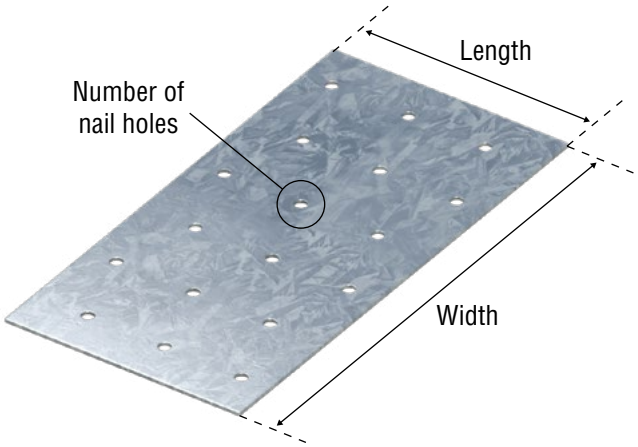
- NailonPlates may also be formed into brackets for many other uses.

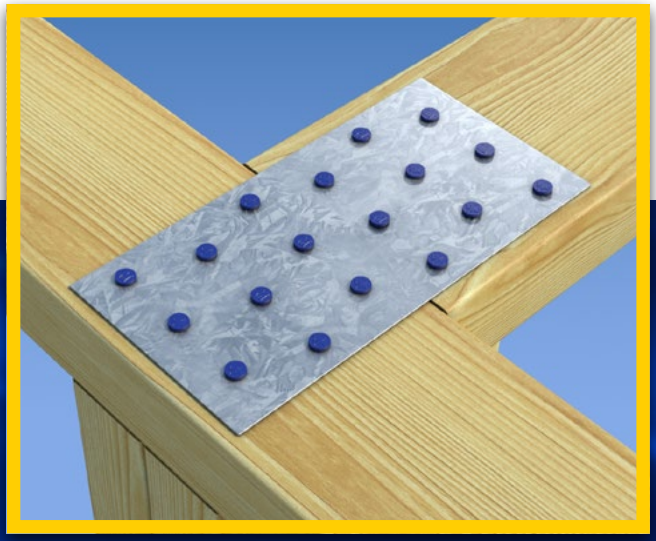
SPECIFICATIONS:

Steel Grade	**G300**
Thickness (Total Coated)	**1.0mm**
Galvanized Coating	**Z275**
Nails	**MiTek 30 x 2.8mm hot dipped galvanized reinforced head.**
Screws	**MSA1430 MiTek No. 14 x 30mm anti-split self-drilling HD galvanized screw.**
Product Code	**See Table**

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

Product Code:	Length (mm):	Width (mm):	Number of nail holes:
NP75150	75	150	18
NP75200	75	200	24
NP75250	75	250	30
NP75350	75	350	42
NP125200	125	200	40
NP150350	150	350	84





LOAD DATA

Steel Limit State Design Capacity for a Pair of Plates (N/mm)[1]	
Tension	458
Shear	358

[1] Do not apply adjustment factors to these design capacities.

Limit State Design Capacity per Nail (N)									
Joint Group	J2	J3	J4	J5	J6	JD3	JD4	JD5	JD6
DL Only	543	386	272	205	153	543	386	314	239
DL + Roof LL	733	521	367	277	206	733	521	424	323
DL + WL	1086	771	543	410	306	1086	771	628	478

Limit State Design Capacity per Screw (N)									
Joint Group	J2	J3	J4	J5	J6	JD3	JD4	JD5	JD6
DL Only	1000	1000	710	520	330	1000	1000	710	520
DL + Roof LL	1350	1350	960	700	450	1350	1350	960	700
DL + WL	2000	2000	1420	1030	660	2000	2000	1420	1030

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.

Design capacities have been obtained from laboratory testing and procedures given in AS1720.1.

Category	1	2	3
Adjustment factor	1.00	0.94	0.88

NAIL-FIXING

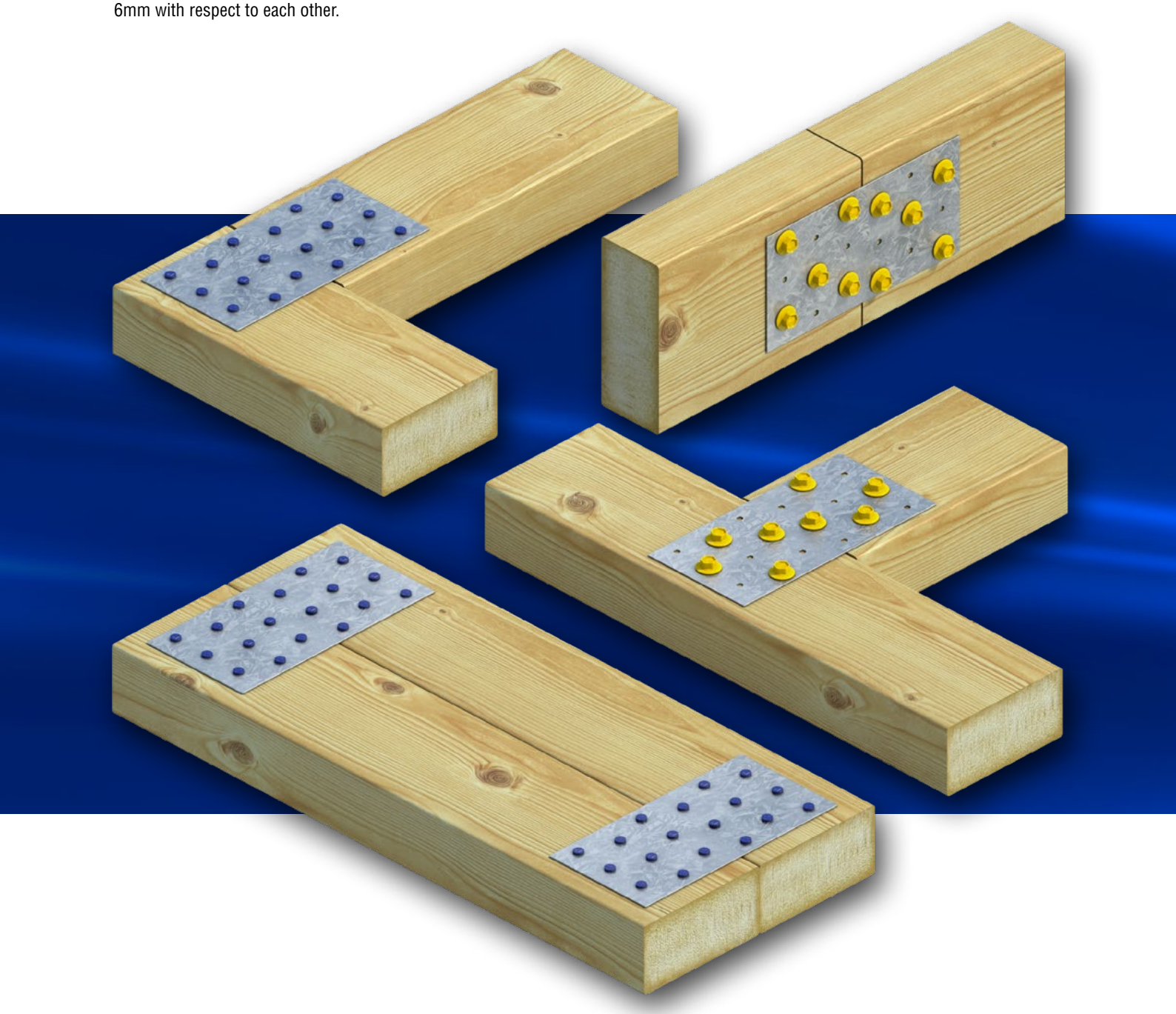
1. Place NailonPlate over joint and fix with MiTek nails using a standard carpenters hammer.
2. Maximum strength is obtained by nailing one MiTek 30 x 2.8mm hot dipped galvanized reinforced head nail through each hole.
3. Minimum nail distance from edge/end of each timber member is 10mm/30mm respectively.

INSTALLATION NOTE:

NailonPlates on opposite sides of each joint are to be offset 6mm with respect to each other.

SCREW-FIXING

1. Place NailonPlate over joint and secure plate safely with one MiTek nail before driving screws.
2. MiTek screws are to be driven into every second pre-punched hole, distributed as evenly as possible around the plate, where desired, they may also be driven through bare metal as they are self-drilling. The number of screws applied should not exceed half the number of holes available for fixing.
3. Minimum screw distance from edge/end of each timber member is 24mm/33mm respectively.



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**

NOP 07/15