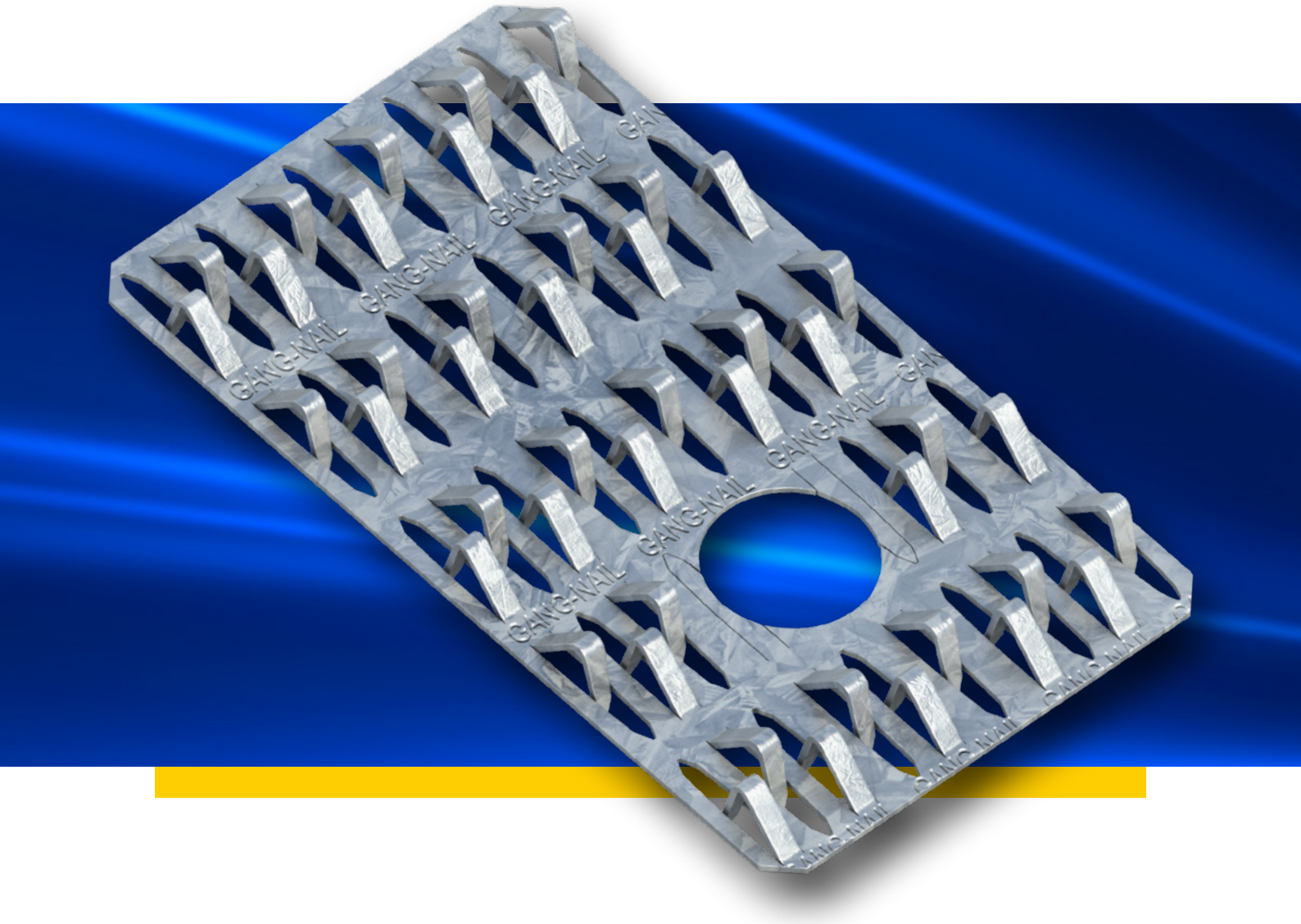
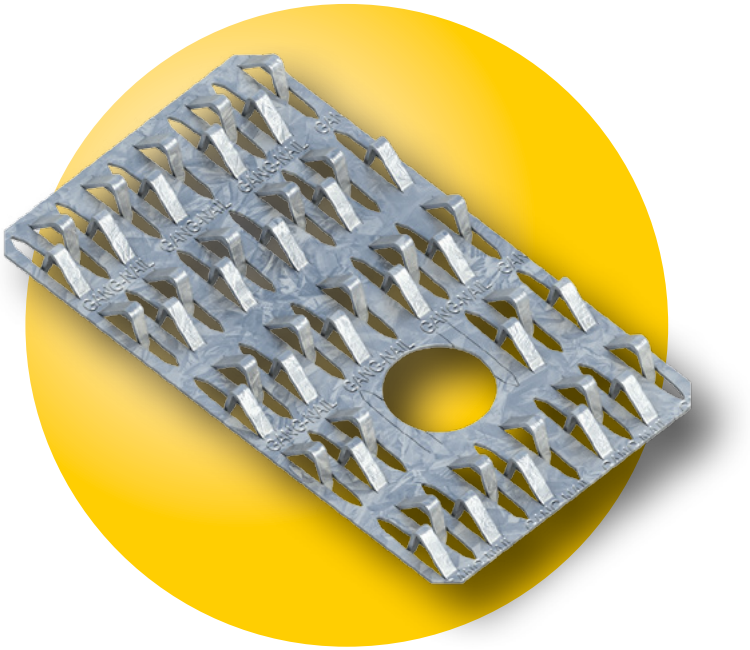
ENGINEERED BUILDING PRODUCTS

ShuntPlate & ANTISPLIT PLATE



MiTek®

creating the advantage



FOR THE ELECTRICAL DISTRIBUTION INDUSTRY

APPLICATION:

ShuntPlates provide greater dispersion of leakage currents by providing a large number of parallel paths for current.

AntiSplit Plates can be used on the end of cross arms or poles to reduce the development of strength reducing splits.

ADVANTAGES

- Reduces the chance of timber shrinking and splitting.
- Provides good electrical connection.
- Reduces electrical arcing.
- Helps to inhibit contamination across the insulator surface.
- Prevent fires in timber poles and crossarms.
- Available in various shapes and sizes.

SPECIFICATIONS:

Steel Grade	**See Tables on page 4**
Thickness (Total Coated)	**See Tables on page 4**
Galvanized Coating	**See Tables on page 4**
Product Code	**See Tables on page 4**

SHUNTPLATE

Pole and crossarm fires are usually preceded by a prolonged dry period in which the timber members dry out. Deposits of dust in country areas, salt in coastal areas or industrial dust in city areas, contaminate the insulator surface. If the dry period is followed by light rain or fog which dampens the insulator surface without washing away the contamination, large leakage currents can flow over the insulator to the crossarm causing arcing, which can result in timber igniting. This may even occur in relatively green timber.

Fires usually occur at points where the leakage current enters or leaves the member and the areas most vulnerable are insulator pins or suspension eye bolts, king bolts or brace bolts. MiTek Australia Ltd has a number of specifically developed spiked galvanised connector plates to reduce the possibility of such fires in timber poles and crossarms at these critical locations. Each of these products (ShuntPlates) provide greater dispersion of leakage currents by providing a large number of parallel paths for the current. The low resistance of these connectors, which is located between the insulators and the cross arm, prevents a large concentration of leakage currents, thus reducing the possibility of cross arm fires.

As well as providing good electrical connection, ShuntPlates also reduce the incidence of cross arm splitting due to shrinkage or weathering. The multi-tooth design inhibits shrinkage and splitting and increases cross arm life when placed near or on the ends of cross arms. ShuntPlates also act as wear plates, reducing the wear on cross arms due to wind induced vibration of conductors and insulators.

SHUNTPLATE SP5T10

(150mm x 85mm - hole size 27mm)

Utilises the unique Tylok tooth shape which enables the product to be embedded into unseasoned timber using a hand held hammer.

Suitable for insulator, brace or pole fastening points including round timber poles and the tops of chamfered cross arms.

The Tylok tooth design allows the plate to be bent around a curved surface during the driving process.

ANTISPLIT PLATE

AntiSplit Plates are available in both the conventional tooth pattern and the Tylok design as shown overleaf.

These can be used on the end of cross arms or poles to reduce the development of strength reducing splits.

Some of the more common sizes are listed overleaf. (If the size that you require is not listed, contact your local MiTek Australia Ltd office for the availability of other sizes.)

MITEK CONNECTOR PLATES

MiTek Connector Plate:				
Code	Size (mm x mm)	Galvinized Coating	Thickness (Total Coated) (mm)	Steel Grade
GQ2575	25 x 75	Z275	1.0	G300
GQ25100	25 x 100	Z275	1.0	G300
GQ4075	40 x 75	Z275	1.0	G300
GQ40100	40 x 100	Z275	1.0	G300
GQ50100	50 x 100	Z275	1.0	G300
GQ75100	75 x 100	Z275	1.0	G300
GQ75125	75 x 125	Z275	1.0	G300
GQ10075	100 x 75	Z275	1.0	G300
GQ100100	100 x 100	Z275	1.0	G300
GQ100125	100 x 125	Z275	1.0	G300
GQ125125	125 x 125	Z275	1.0	G300
GQ150150	150 x 150	Z275	1.0	G300

Stainless Steel:			
Code	Size (mm x mm)	Thickness (mm)	Steel Grade
G8S3580	35 x 80	1.2	445M2
G8S35120	35 x 120	1.2	445M2
G8S70100	70 x 100	1.2	445M2
G8S70120	70 x 120	1.2	445M2
G8S70140	70 x 140	1.2	445M2

TYLOK ANTISPLIT PLATES

Tylok Plate:				
Code	Size (mm x mm)	Galvinized Coating	Thickness (Total Coated) (mm)	Steel Grade
TL4T5	120 x 43	Z275	1.2	G300
TL4T7	120 x 63	Z275	1.2	G300
TL6T7	180 x 63	Z275	1.2	G300
TL3T10	90 x 85	Z275	1.2	G300
TL4T10	120 x 85	Z275	1.2	G300

OCTAGONAL ANTISPLIT PLATES

Octagonal Plate:					
Code	Nominal Size (mm x mm)	Galvanized Coating	Thickness (Total Coated) (mm)	Steel Grade	Nominal Log Diameter (mm)
AS150P	89 x 89	Z275	1.0	G300	150
AS200P	127 x 127	Z275	1.0	G300	200
AS250P	178 x 178	Z275	1.0	G300	250
AS300P	229 x 229	Z275	1.0	G300	300
AS350P	305 x 305	Z275	1.0	G300	350

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**