

Tap-In Nail Plate

GALVANISED



Application

The Bremick® Tap-In Nail Plates are used in various structural and non-structural applications, including the jointing of timber, spreading concentrated loads, and preventing the splitting of timber beams.

Timber joining applications include the joining of wall frames, splicing of timber beams, truss manufacture, box manufacture and various DIY uses.

Spreading concentrated loads applications are typically fixing a Bremick® Tap-In Plate next to a bolted truss-to-truss connection.

Preventing timber splitting applications include applying a Bremick® Tap-In Plate to the ends of timber beams where forces are continually applied. E.g. Bearers in a timber pallet.

Advantages

The Bremick® Tap-In Plate provides numerous benefits including:

- **Convenient and strong:** Pre-punched nails are designed so that they skew into the timber for the greatest holding power.
- **Efficient:** An efficient and easy method of jointing timber. Only tool that is required is a hammer.
- **Anti-Splitting:** Fix the Bremick® Tap-In Plate and the ends of timber to prevent it from splitting.
- **Protects timber from damage:** Locate Bremick® Tap-In plate into timber where it is subject to impact loads to prevent damage. e.g. Protect timber bearer in a pallet from being damaged from forklift tyres.
- **Distributes loads:** Spreads the load over wider areas, typically in bolted truss-to-truss connections.

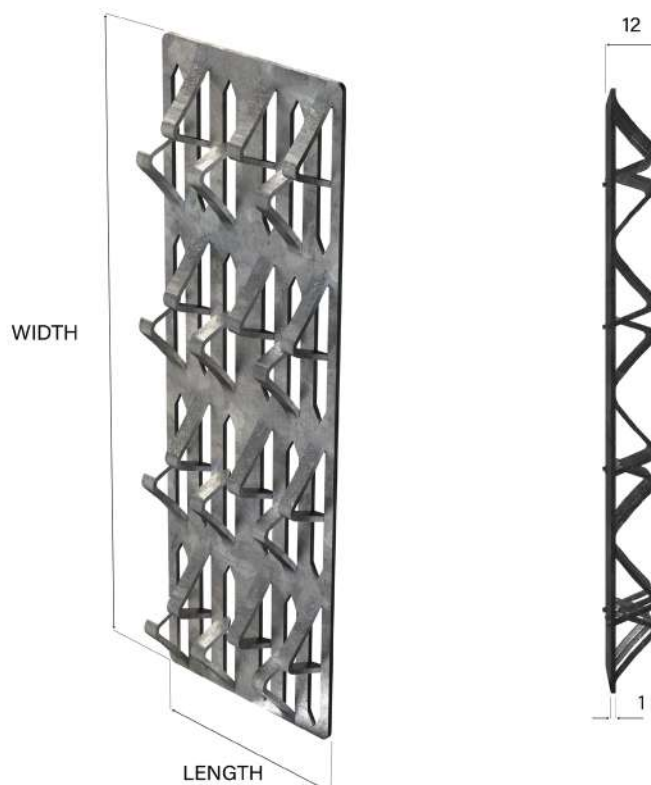
Specifications

Steel Grade	G300
Coating	Z275 – Galvanised
Thickness	1.0mm
Width	32mm; 40mm; 48mm; 62mm; 72mm; 75mm; 90mm
Length	65mm; 98mm; 130mm; 163mm; 195mm; 260mm; 325mm



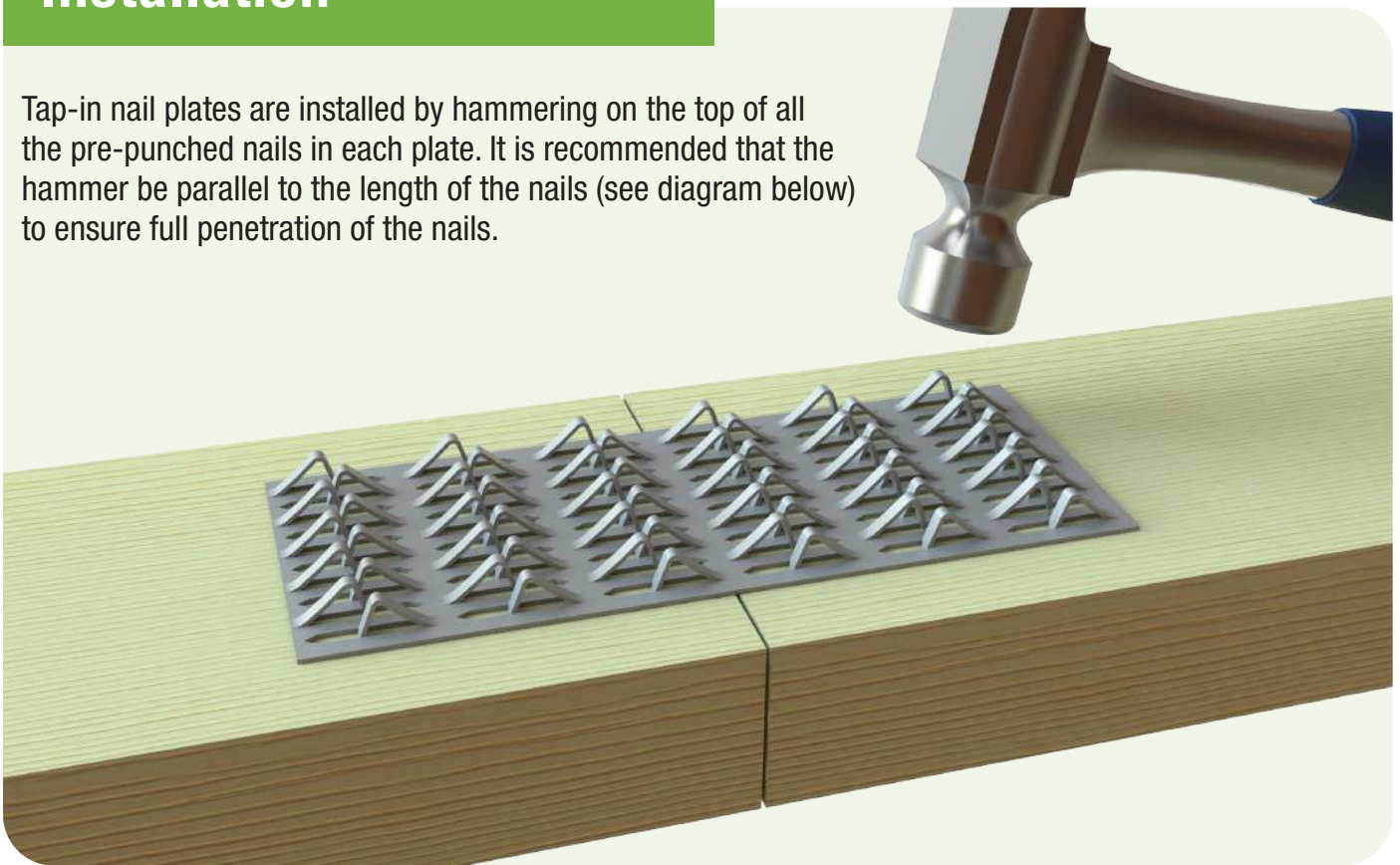
Bremick® Ranging

Product Code	Dimensions	Coating	Pack Qty
TTPG03213004	32mm x 130 x 1.0mm	Z275 – Galvanised	100
TTPG040130104	40mm x 130 x 1.0mm	Z275 – Galvanised	80
TTPG040195104	40mm x 195 x 1.0mm	Z275 – Galvanised	70
TTPG048130104	48mm x 130 x 1.0mm	Z275 – Galvanised	80
TTPG048195104	48mm x 195 x 1.0mm	Z275 – Galvanised	70
TTPG048260104	48mm x 260 x 1.0mm	Z275 – Galvanised	40
TTPG062130104	62mm x 130 x 1.0mm	Z275 – Galvanised	70
TTPG062195104	62mm x 195 x 1.0mm	Z275 – Galvanised	40
TTPG062260104	62mm x 260 x 1.0mm	Z275 – Galvanised	30
TTPG072098104	72mm x 98 x 1.0mm	Z275 – Galvanised	75
TTPG072163104	72mm x 163 x 1.0mm	Z275 – Galvanised	50
TTPG072325104	72mm x 325 x 1.0mm	Z275 – Galvanised	30
TTPG075065104	75mm x 65 x 1.0mm	Z275 – Galvanised	80
TTPG075130104	75mm x 130 x 1.0mm	Z275 – Galvanised	50
TTPG075195104	75mm x 195 x 1.0mm	Z275 – Galvanised	30
TTPG075260104	75mm x 260 x 1.0mm	Z275 – Galvanised	30
TTPG090130104	90mm x 130 x 1.0mm	Z275 – Galvanised	50
TTPG090195104	90mm x 195 x 1.0mm	Z275 – Galvanised	25
TTPG090260104	90mm x 260 x 1.0mm	Z275 – Galvanised	20
TTPG090325104	90mm x 325 x 1.0mm	Z275 – Galvanised	20



Installation

Tap-in nail plates are installed by hammering on the top of all the pre-punched nails in each plate. It is recommended that the hammer be parallel to the length of the nails (see diagram below) to ensure full penetration of the nails.

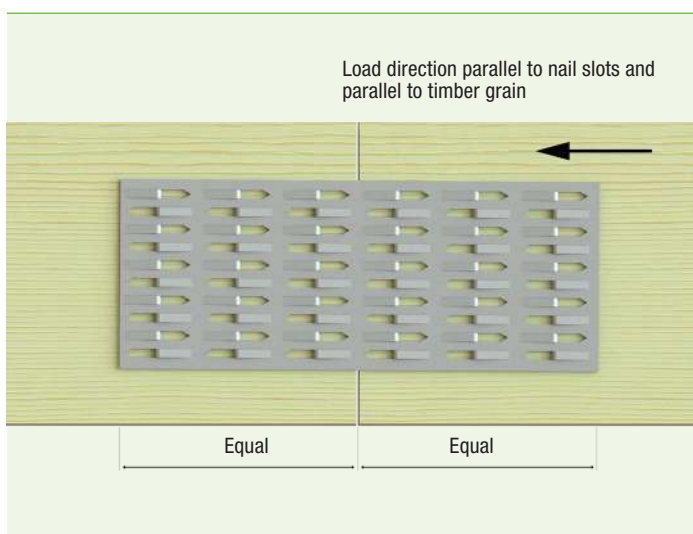


The nail plate design ensures that the pre-punched nails will skew as they penetrate the timber. This provides positive resistance to nail withdrawal.

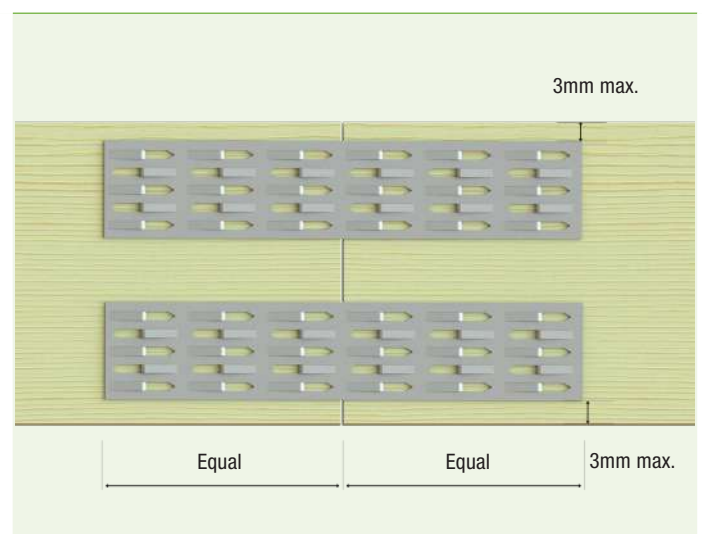
To ensure the highest possible design capacity the nail plate should be installed in parallel. This is where the load is applied in parallel with the nail slots within the nail plate, as well as being in parallel with the timber grain.

When considering timber design capacities, note that nails within 12mm of the ends and 6mm of the edge are regarded as ineffective. As the nail rows in the Bremick® Tap-In Nail plate are 32mm apart, all nails, fixed symmetrically over the joint are considered effective.

Single Plate Butt Joining



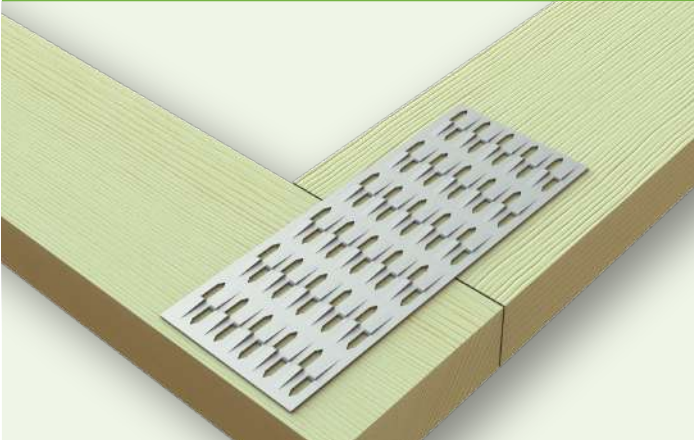
Double Plate Butt Joining



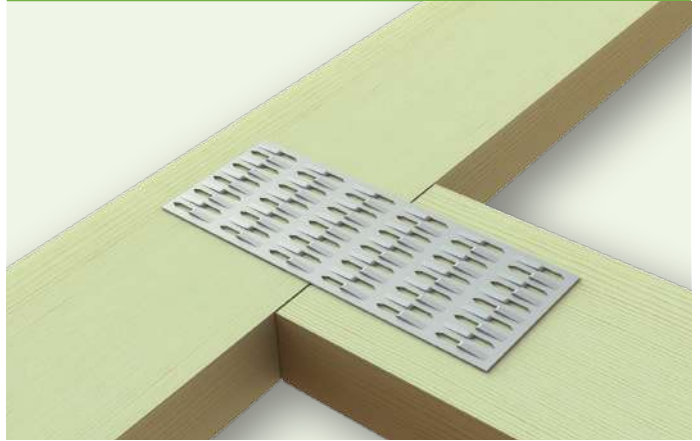
Bremick® Tap-In Nail plates are installed with an equal length on each side of the joint.

For timber up to 150mm wide, one nail plate is fixed onto each face. For wider timber, two plates are used, fixed at 3mm maximum from each edge.

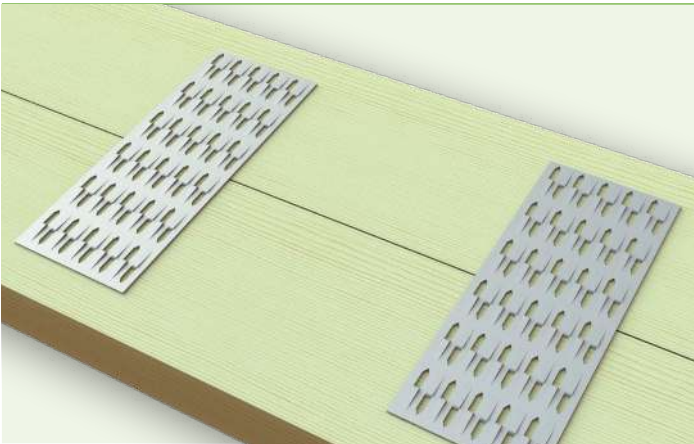
Right angled L-Junction



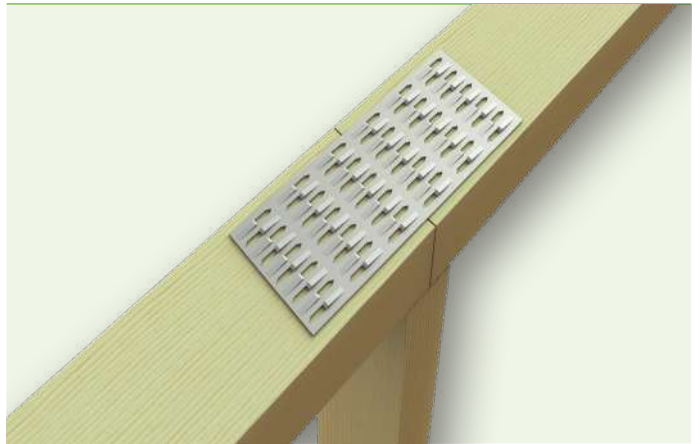
Right angled T-Junction



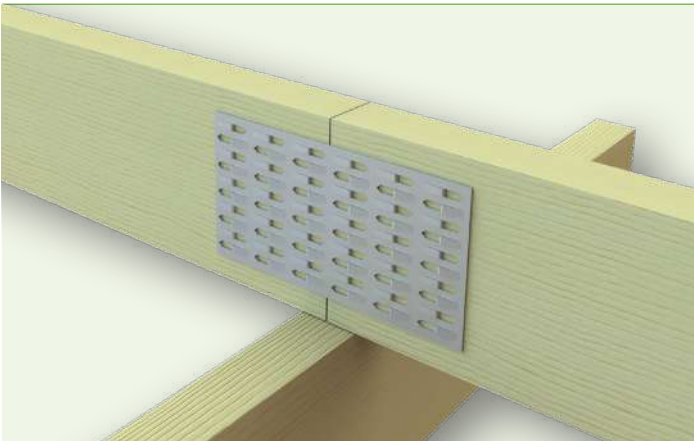
Vertically laminated members



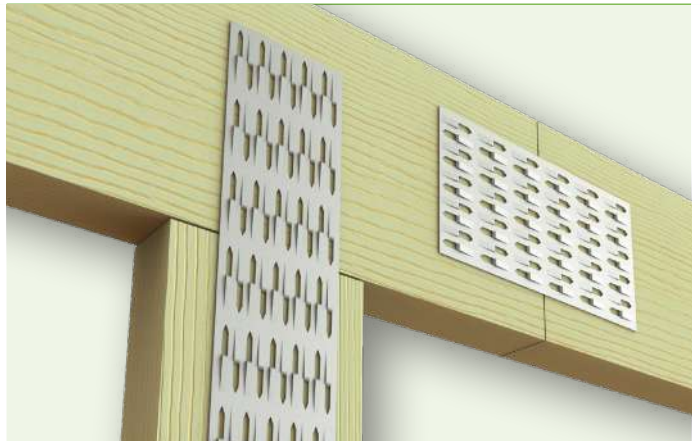
Joining Top Plates



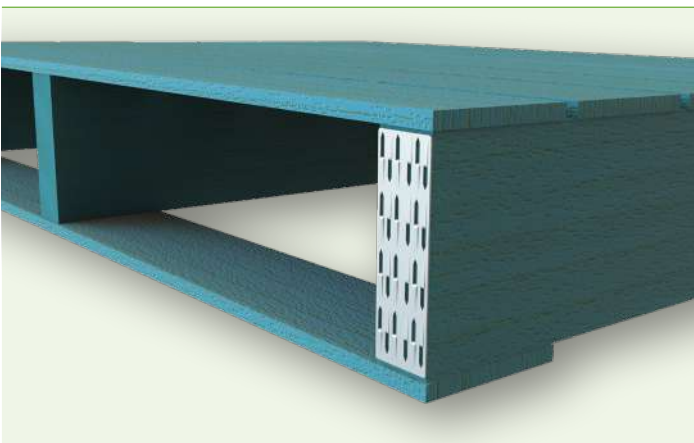
Purlin, Joist Splice or Truss Splice



End Jointing or Truss Joints



Pallet Fixing



Note: These connectors should not be used to connect a beam within the span without a special engineering design.