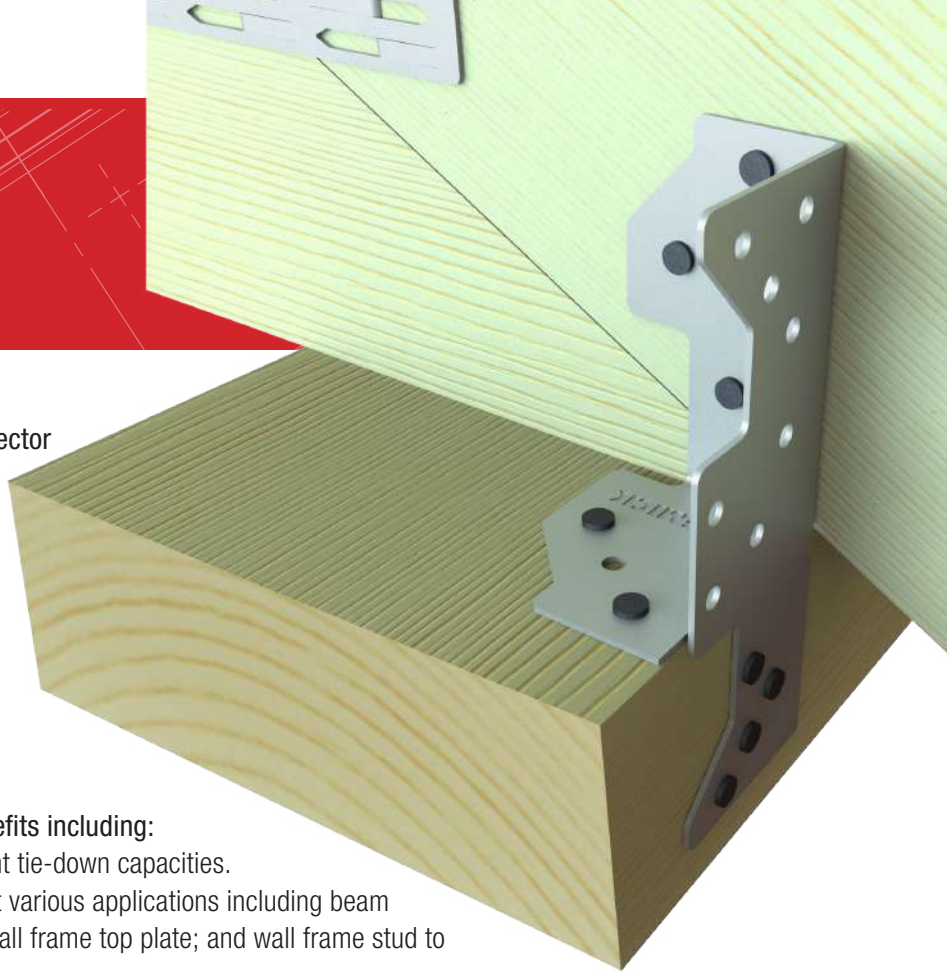
Multi Grip
GALVANISED & SS316



Application

The Bremick® Multi Grip is a multi-purpose connector that has many applications in timber framing. Applications include a tie down connector for trusses or rafters to top plates and for fixing joists to the face of bearers. Plus, various projects including carports, pergolas, decks and other projects that require a right-angled joint connection.

Advantages

The Bremick® Multi Grip provides numerous benefits including:

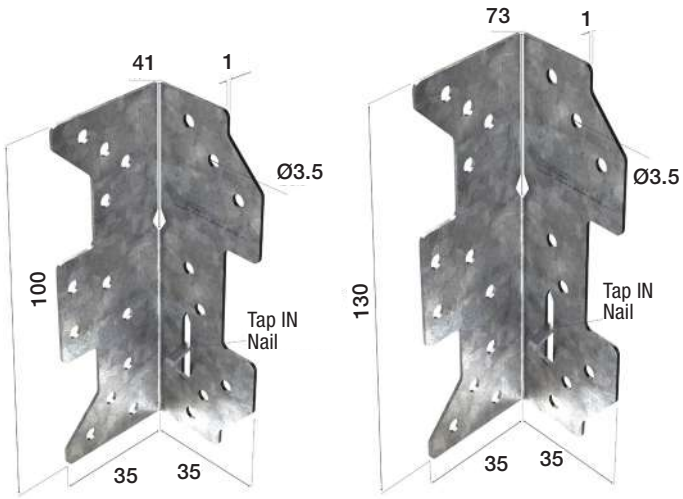
- Multi-purpose connector that provides excellent tie-down capacities.
- Design allows the connector to modified to suit various applications including beam to beam connection; truss/rafter tie-down to wall frame top plate; and wall frame stud to bottom plate connection.
- Marine grade 316 stainless steel product lines available for use in external construction and when near the seaside.
- Pre-drilled holes to allow easy fixing of hand driven nails.
- 12-gauge, Type 17 self-drilling screws can be driven through the pre-drilled holes and provide additional capacity.
- Pre-punched nail to ease the locating of the multigrip into position.

Specifications

Steel Grade	G300
Coating	Z275 – Galvanised & SS316
Thickness	1.0mm
Width A	35mm
Width B	35mm
Length	100mm
Fasteners	Bremick® 35 x 3.15mm Timber Connector Nails (Gal or SS316) 32 x 2.5mm Screw Shank Machine Fastened Nails Bremick® Type 17, 12g x 35mm Screws

AS1684 Compliant

Tested • Engineered Performance • Compliance

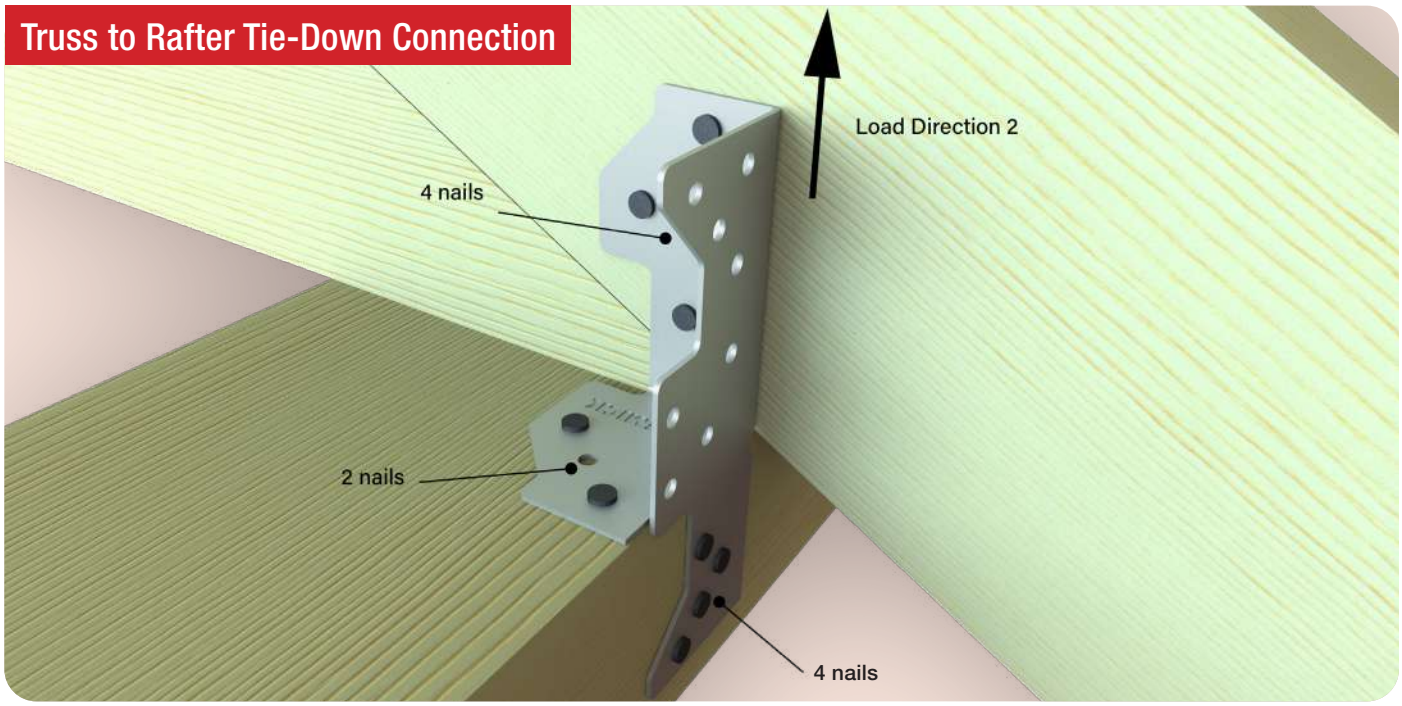


Bremick® Ranging

Product Code	Dimensions	Coating	Pack Qty
TMPG100035104	100mm x 35mm x 35mm x 1.0mm	Z275 – Galvanised	100
TMPG130035104	130mm x 35mm x 35mm x 1.0mm	Z275 – Galvanised	100
TMP6100035104	100mm x 35mm x 35mm x 1.0mm	SS316	20

Installation Instructions

Truss to Rafter Tie-Down Connection



1

Fold up 1 flange of the Bremick® Multi Grip so it is sitting at right angles to the vertical.

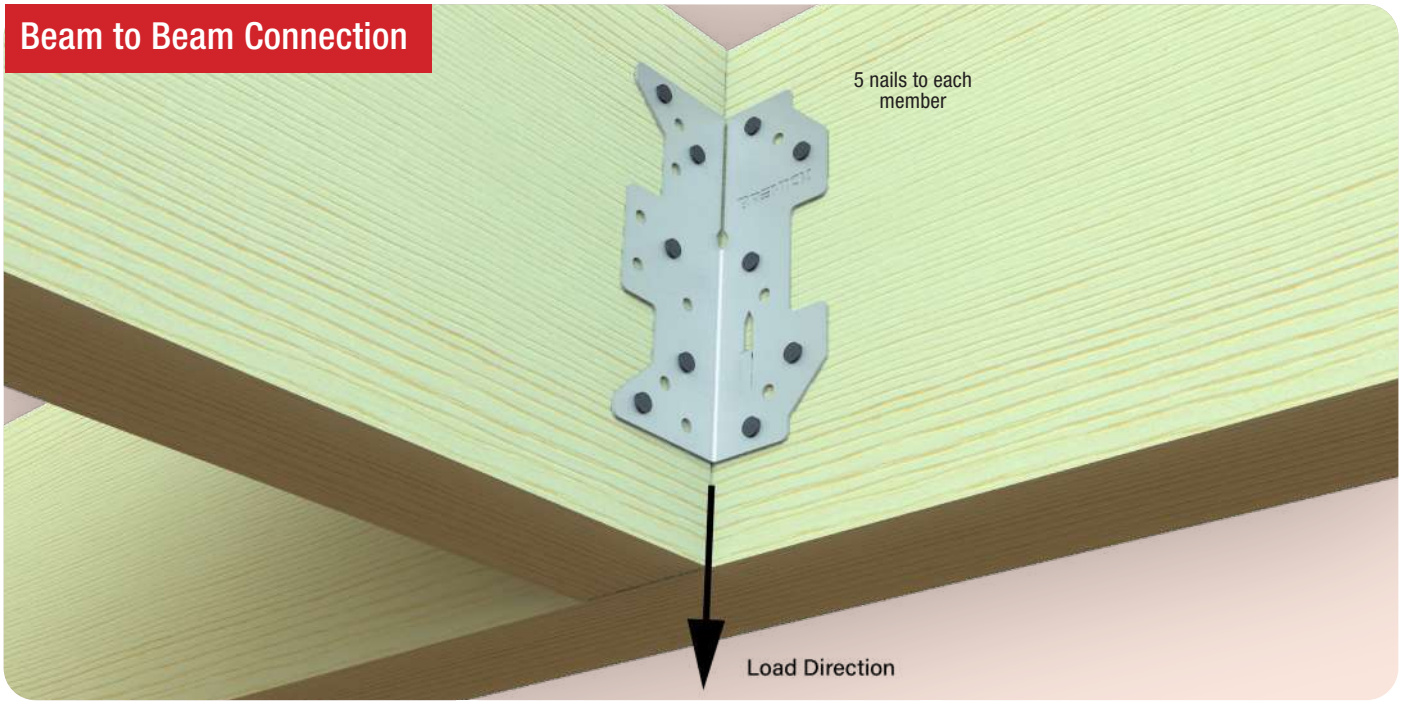
2

Locate the Bremick® Multi Grip into position. The vertical is sitting flush against the truss/ rafter and the folded flange is sitting on top of the supporting beam or top plate of the wall frame.

3

Fix Bremick® Timber Connector Nails through the pre-punched holes as described in the image.

Beam to Beam Connection



1

Locate the Bremick® Multi Grip into position, so each flange is flush against the 2 timber beams, that are at right angles to each other.

2

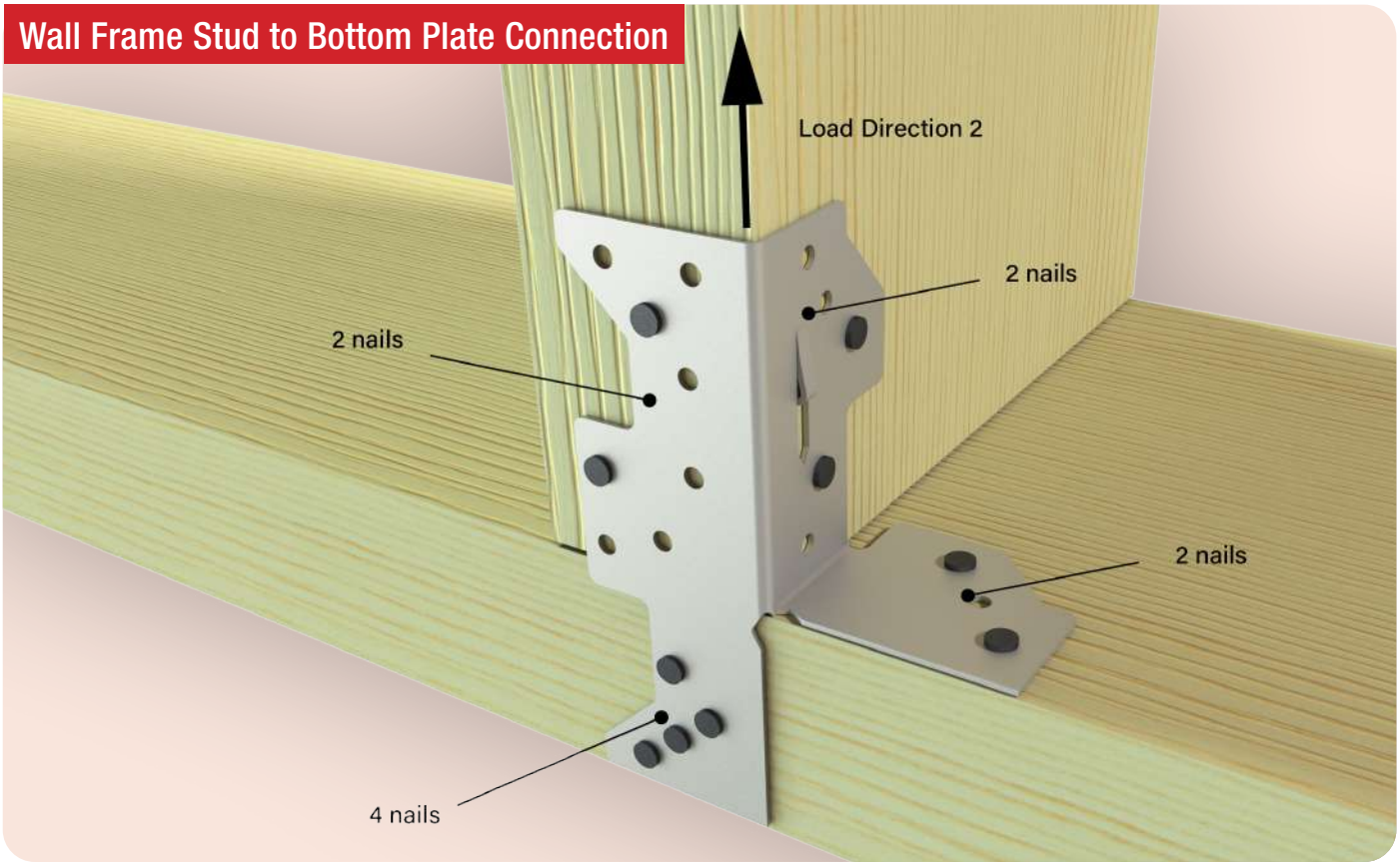
Fix 5 x Bremick® Timber Connector Nails through the pre-punched holes into each timber member, as described in the image.

3

Repeat steps 1 and 2 on the other side of the timber beam.

Installation Instructions

Wall Frame Stud to Bottom Plate Connection



1

Fold up 1 flange of the Bremick® Multi Grip so it is sitting at right angles to the vertical.

2

Locate the Bremick® Multi Grip into position

a. The vertical is sitting flush against the corner of the stud and the 2 flanges fold around onto the 2 faces of the stud.

b. The bottom of the vertical overlaps onto the side of bottom plate.

c. The folded flange is sitting on top of the bottom plate.

3

Fix Bremick® Timber Connector Nails through the pre-punched holes as described in the image.

Notes

- Use half as many 12-gauge, Type 17 self-drilling screws to Bremick® Timber Connector Nails, to achieve the same capacity. More screws can be applied to boost the tie-down capacity. Screws are drilled through the pre-punched holes.
- Use Marine Grade 316 Stainless Steel Bremick® Timber Connector Nails when fastening stainless steel Multi Grips
- When fastening Bremick® Multi Grips with machine fired nails, use the Multi Grips with unpunched holes. Fire the nails around the location of the dimples. Use 32 x 2.5mm galvanised, screw shank nails. 20% more nails should be used to match the capacity of the hand driven Bremick® Timber Connector nail.

Technical Data

MULTI GRIP

TMPG100035104 • TMPG130035104 • TMP6100035104

MULTIGRIP CAPACITY (ALWAYS USED AS PAIR)

Table 1 WIND UPLIFT CAPACITY: 5 - 3.15mm DIAMETER NAILS USED @ EACH WING ON EACH MEMBER

1.2G+WU OR 0.9G-WU						
	Seasoned Timber Capacity (kN) for a PAIR of Multi Grips					
JOINT GROUP	JD6	JD5	JD4	JD3	JD2	JD1
	3.7	4.9	5.9	8.3	8.3	8.3
	Unseasoned Timber Capacity (kN) for a PAIR of Multi Grips					
JOINT GROUP	J6	J5	J4	J3	J2	J1
	2.4	3.2	4.2	5.9	8.3	8.3

REMARKS

- These values are directly copied from AS1684.2 Table 9.1. No calculations or testing have been undertaken
- These design capacities apply directly for Category 1 joints as described in Table 2.2 of AS1720.1:2010. For Category 2 and Category 3 joints, multiply these capacities by 0.94 and 0.88 respectively.
- The design capacities tabulated above apply directly for wind load case using k1 = 1.14. For other load cases, multiply these capacities by the load factors given below.

LOAD FACTOR				
LOAD CASE	1.35G	$1.2G+1.5Q_F$	$1.2G+1.5Q_R$	1.2G+WD OR 0.9G - Wu
FACTOR	0.5	0.6	0.68	1