

Triple Grip

GALVANISED & SS316

Application

The Bremick® Triple Grip is used in numerous tie-down connection applications in timber framing. Applications include trusses or rafters to wall frame top plates, joist to supporting beam, purlin to truss, hanger to ceiling joist, stud to wall plate and corner studs to wall plate. Plus, various projects including carports, pergolas, decks, and other projects that require a right-angled joint connection.

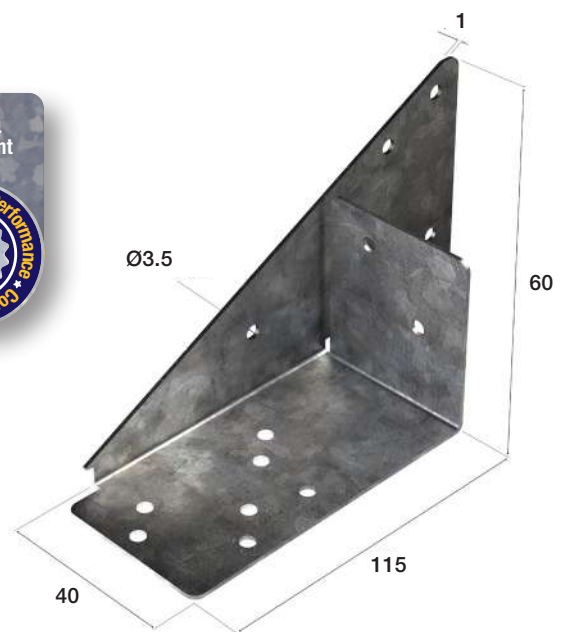
Advantages

The Bremick® Triple Grip provides numerous benefits including:

- Multi-purpose connector that provides excellent tie-down capacities in high wind zones
- Various tie-down applications including trusses or rafters to wall frame top plates, joist to supporting beam, purlin to truss, hanger to ceiling joist, stud to wall plate and corner studs to wall plate
- Left-hand and right-hand product design allows the connector to be nailed into position to suit frame design and installer's nailing preference
- 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

Specifications

Steel Grade	G300
Coating	Z275 – Galvanised & SS316
Thickness	1.0mm
Width A	40mm
Width B	60mm
Length A	115mm
Length B	73mm
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

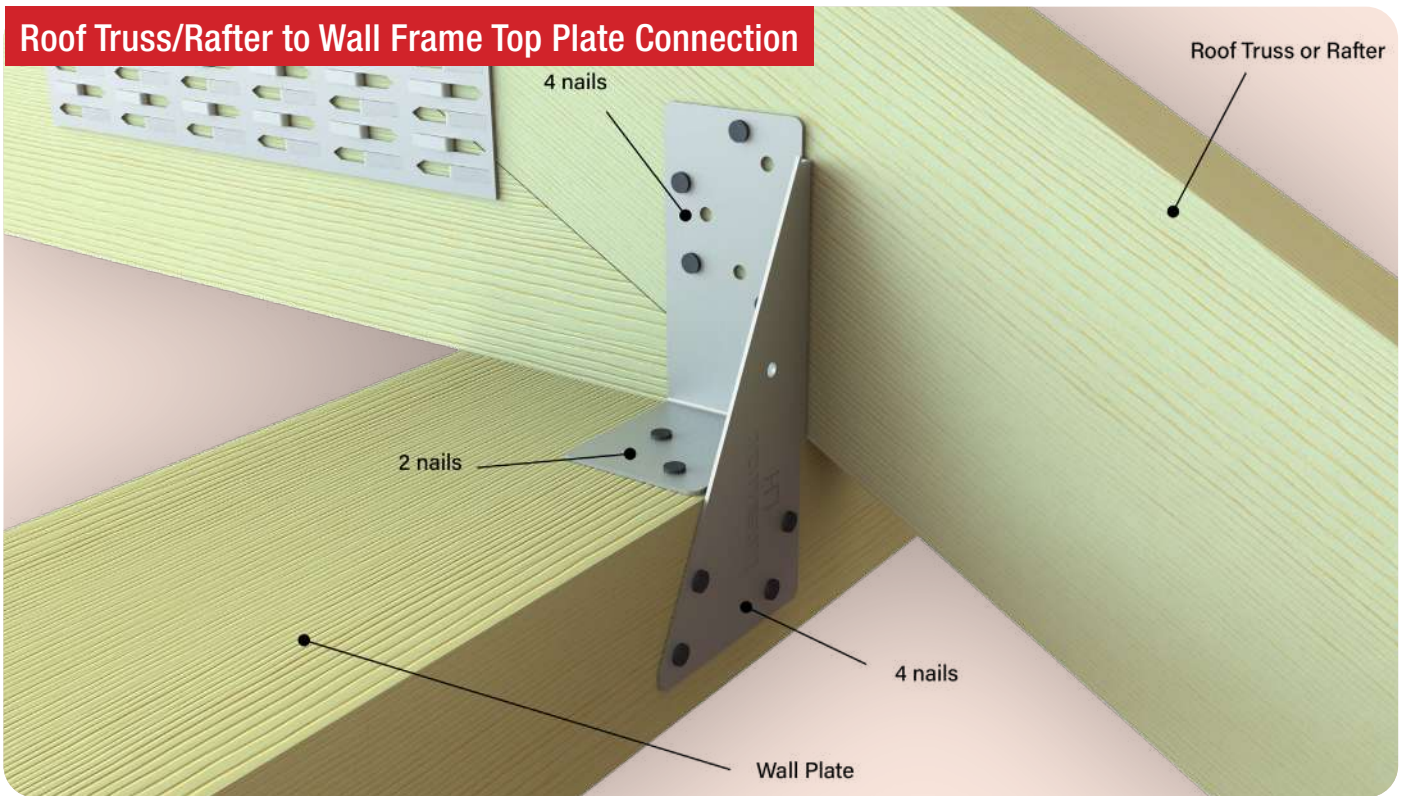


Bremick® Ranging

Product Code	Dimensions	Coating	Pack Qty
TTLPG11560104	115mm x 73mm x 40mm x 60mm x 1.0mm – Left Hand	Z275 – Galvanised	50
TTRPG11560104	115mm x 73mm x 40mm x 60mm x 1.0mm – Right Hand	Z275 – Galvanised	50
TTLP611560104	115mm x 73mm x 40mm x 60mm x 1.0mm – Left Hand	SS316	20
TTRP611560104	115mm x 73mm x 40mm x 60mm x 1.0mm – Right Hand	SS316	20

Installation Instructions

Roof Truss/Rafter to Wall Frame Top Plate Connection



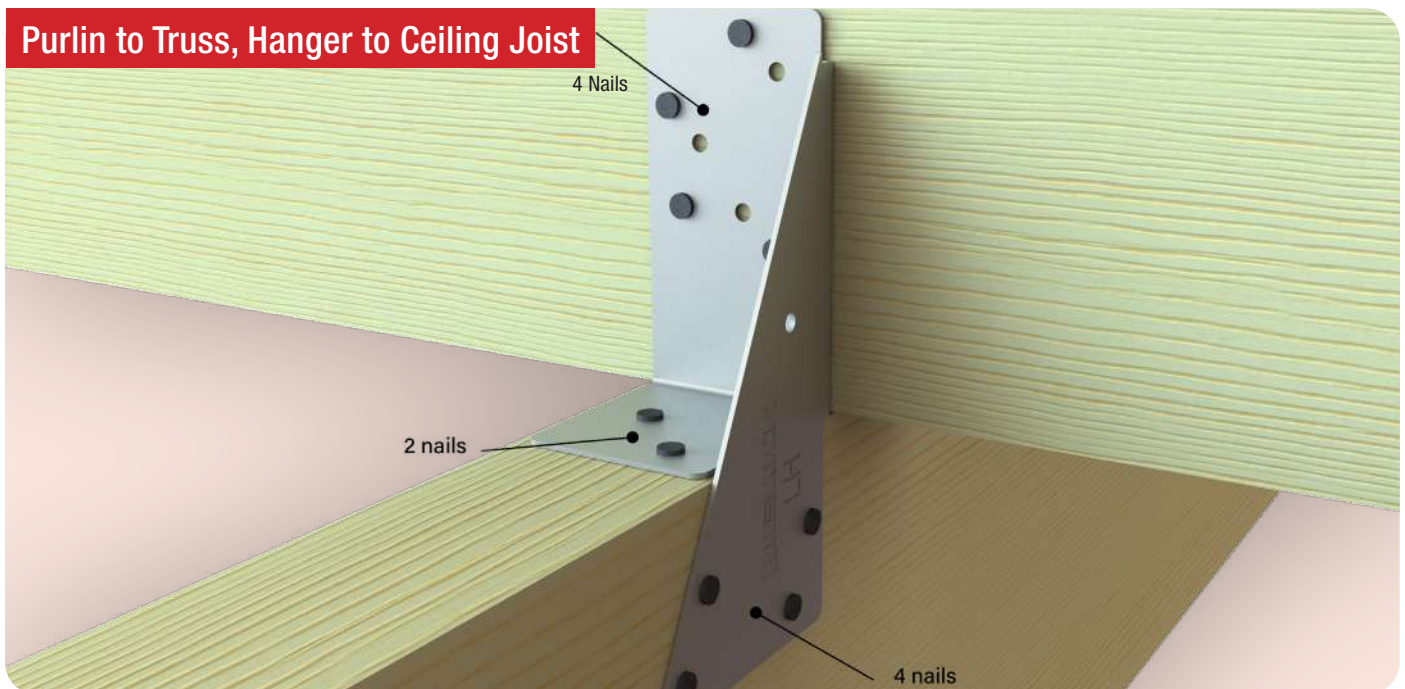
1

2

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

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

Purlin to Truss, Hanger to Ceiling Joist



1

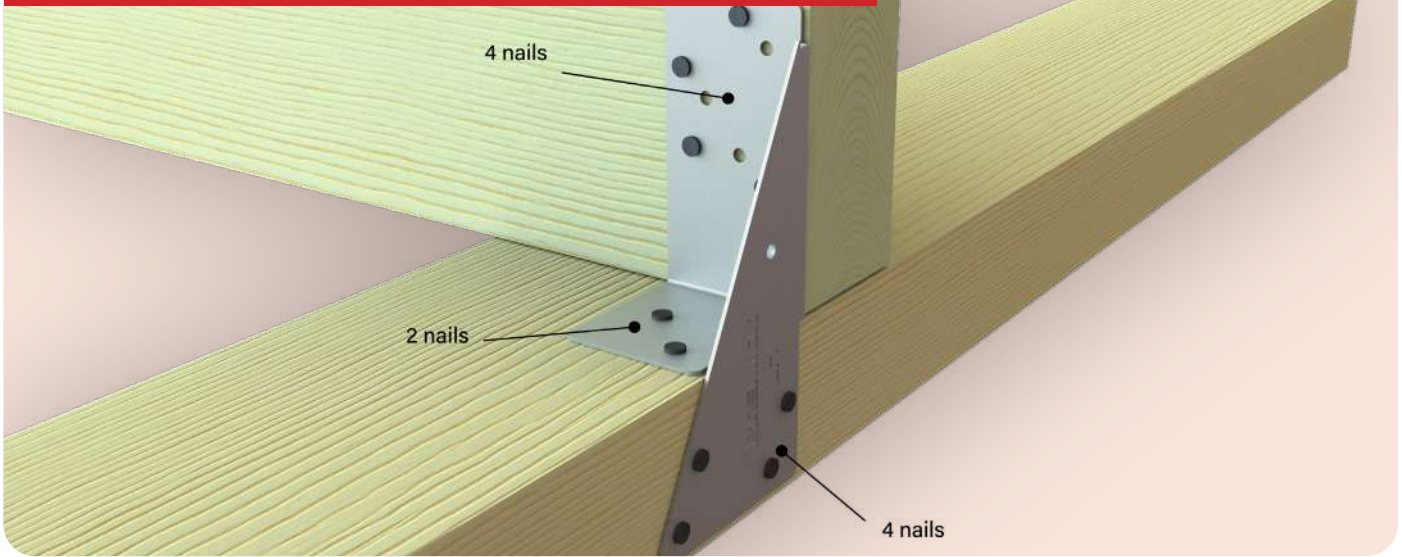
2

Locate the Bremick® Triple Grip into position. The vertical is sitting flush against the truss or hanger and the edge of the truss or ceiling joist. The folded flange is sitting on top of the truss or ceiling joist.

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

Installation Instructions

Rafter to Ceiling Joist to Wall Frame Top Plate Connection



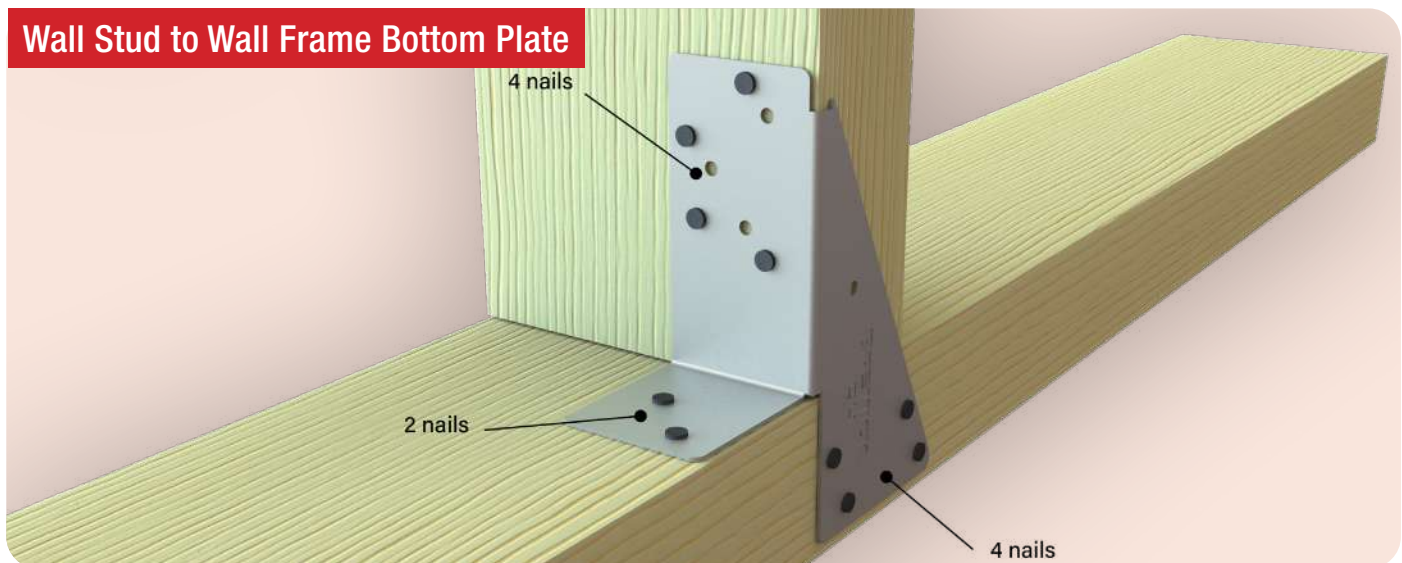
1

2

Locate the Bremick® Triple Grip into position. The vertical is sitting flush against the rafter or ceiling joist and the edge of the wall frame top plate. The folded flange is sitting on top of the top plate of the wall frame.

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

Wall Stud to Wall Frame Bottom Plate



1

2

Locate the Bremick® Triple Grip into position. The vertical is sitting flush against the wall stud and the edge of the wall frame bottom plate. The folded flange is sitting on top of the wall frame bottom plate.

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 Triple Grips.
- When fastening Bremick® Triple Grips with machine fired nails, use the Triple 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

TRIPLE GRIP

TTLPG11560104 • TTRPG11560104 • TTLP611560104 • TTRP611560104

TRIPLE GRIP CAPACITY (SINGLE)

Table 1 WIND UPLIFT CAPACITY: 3.15mm DIAMETER NAILS USED AS PER INSTALLATION INSTRUCTIONS

1.2G+WU OR
0.9G-WU

JOINT GROUP	Seasoned Timber Capacity (kN) for a SINGLE Triple Grip					
	JD6	JD5	JD4	JD3	JD2	JD1
	2.2	2.9	3.5	4.9	4.9	4.9
JOINT GROUP	Unseasoned Timber Capacity (kN) for a SINGLE Triple Grip					
	J6	J5	J4	J3	J2	J1
	1.4	1.9	2.5	3.5	4.9	4.9

TRIPLE GRIP CAPACITY (PAIR)

Table 2 WIND UPLIFT CAPACITY: 3.15mm DIAMETER NAILS USED AS PER INSTALLATION INSTRUCTIONS

1.2G+WU OR
0.9G-WU

JOINT GROUP	Seasoned Timber Capacity (kN) for a PAIR of Triple Grip					
	JD6	JD5	JD4	JD3	JD2	JD1
	3.7	4.9	5.9	8.3	8.3	8.3
JOINT GROUP	Unseasoned Timber Capacity (kN) for a PAIR of Triple Grip					
	J6	J5	J4	J3	J2	J1
	2.4	3.3	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 $k_1 = 1.14$. 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 - W _u
FACTOR	0.5	0.6	0.68	1