

Hold Down Bracket

GALVANISED

Application

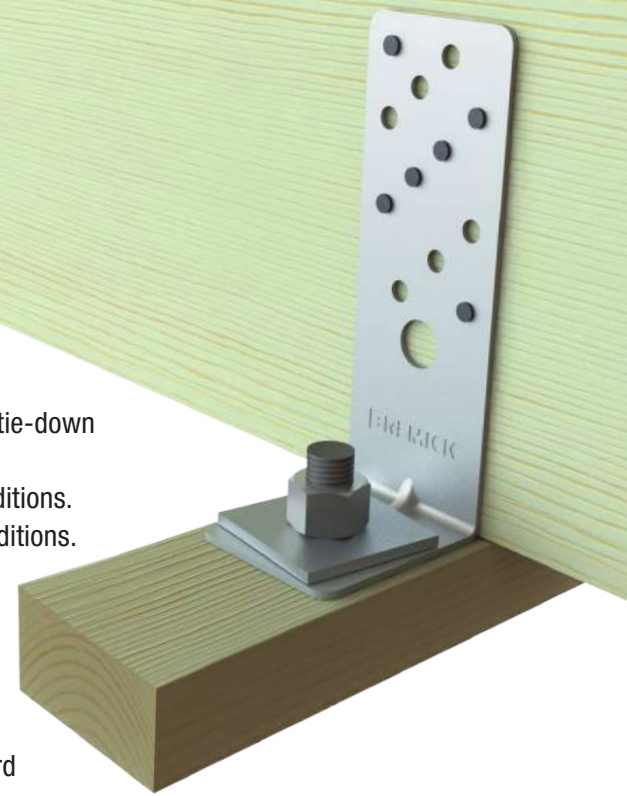
The Bremick® Hold Down Bracket's L-shaped design allows it to be used in numerous timber connector applications. It is specifically designed to enable tie-down applications.

- (i) Tying down a roof truss to the top plate of a wall frame in high wind conditions.
- (ii) Tying down the bottom plate of a wall frame to the slab in high wind conditions.

Advantages

The Bremick® Hold Down Bracket provides numerous benefits including:

- 2.0mm thickness and a 90° bend facilitates multiple right angle timber connections
- Bracket dimensions ensure it does not sit above the timber truss top chord when used as a tie-down
- Pre-drilled holes to enable easy fastening using nails, screws, M12 threaded rod or Anchor Screw



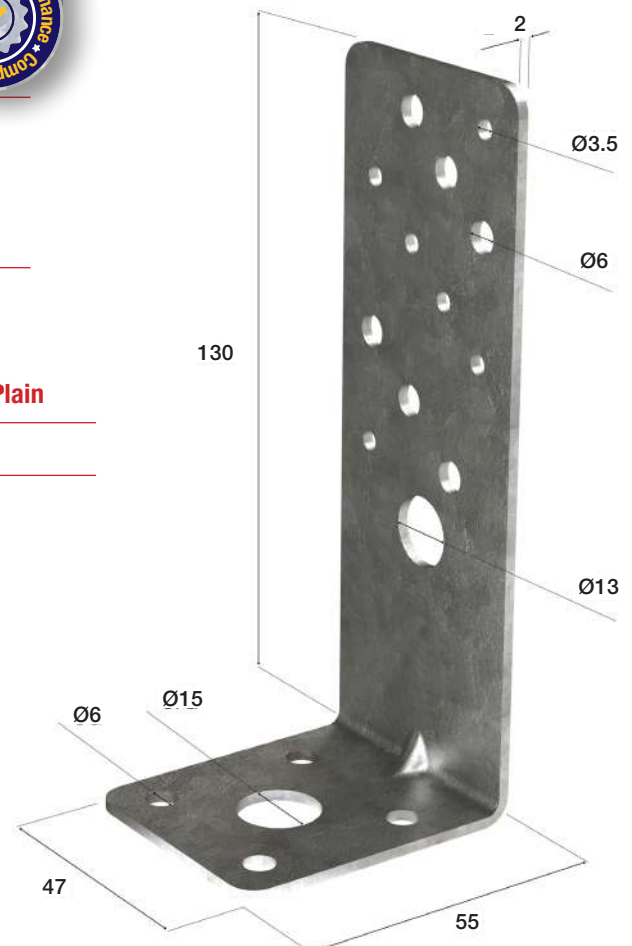
Specifications

Steel Grade	G300
Coating	Z275 – Galvanised
Thickness	2.0mm
Width	47mm
Length A	130mm
Length B	55mm
Fasteners	Bremick® 35 x 3.15mm Timber Connector Nails Bremick® Type 17, 12g x 35mm/65mm Screws, M12 Tie Down Rod Square Washer, 40 x 40 x 5.0mm Anchor Screw, M12 x 150mm



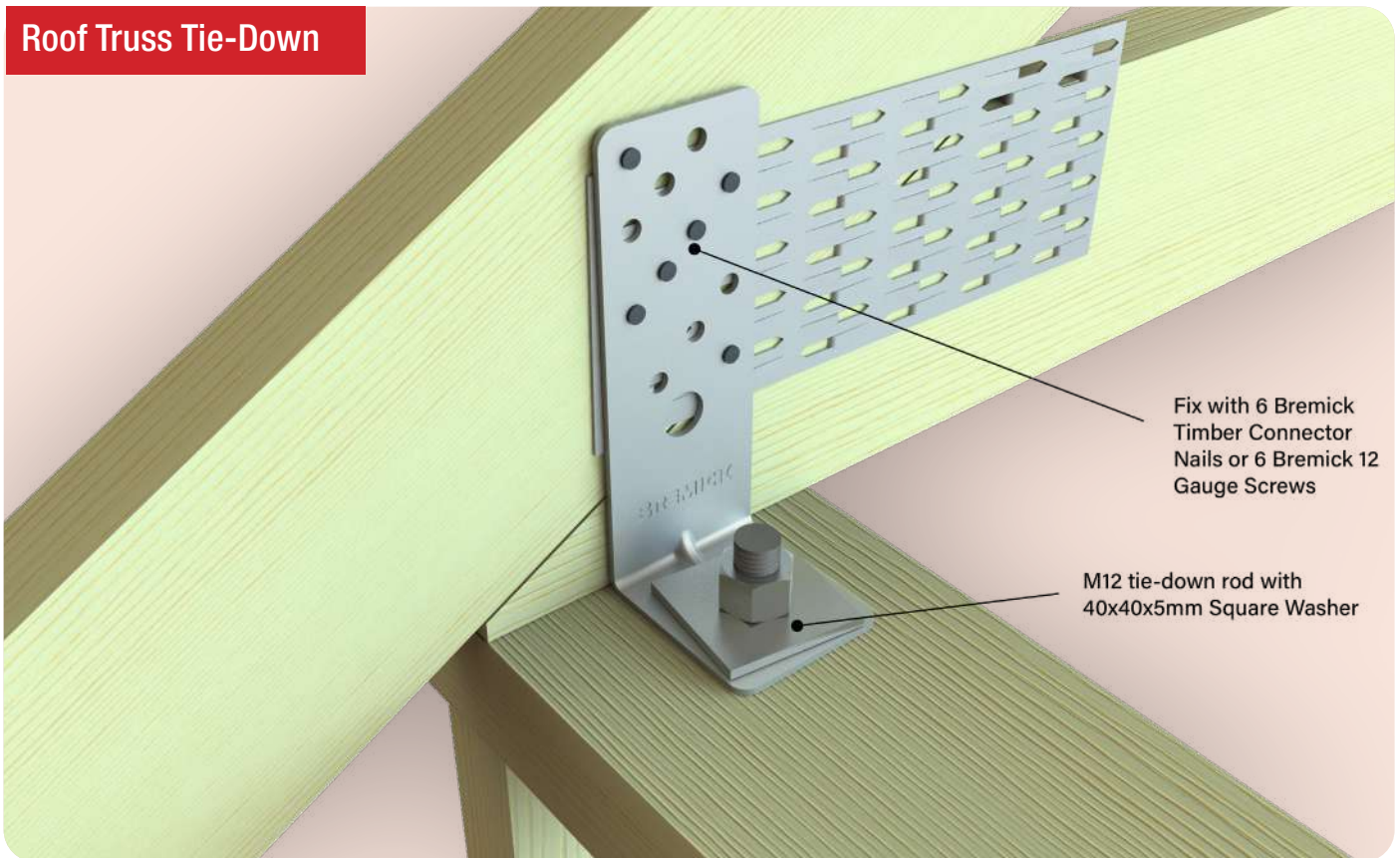
Bremick® Ranging

Product Code	Dimensions	Coined/Plain
THDG130055204	130mm x 55mm x 47mm x 2.0mm	Plain
Coating	Pack Qty	
Z275 – Galvanised	50	



Installation Instructions

Roof Truss Tie-Down



1

Prior to fixing the Bremick® Hold Down bracket, install the tie-down rod into the wall frame. Take into consideration that the rod will need to feed through the pre-drilled hole of the bracket.

2

Locate the Bremick® Hold Down bracket, so the longest flange sits flush against the timber truss face and the shortest flange runs along the top plate of the wall frame and is centrally located.

3

- Ensure that the central hole in the bottom flange fits over the tie-down rod.
- Locate 40 x 40 x 5.0mm square washer over rod and onto bottom flange of the bracket.

4

Fasten M12 nut onto tie-down rod and bracket until it is in position.

5

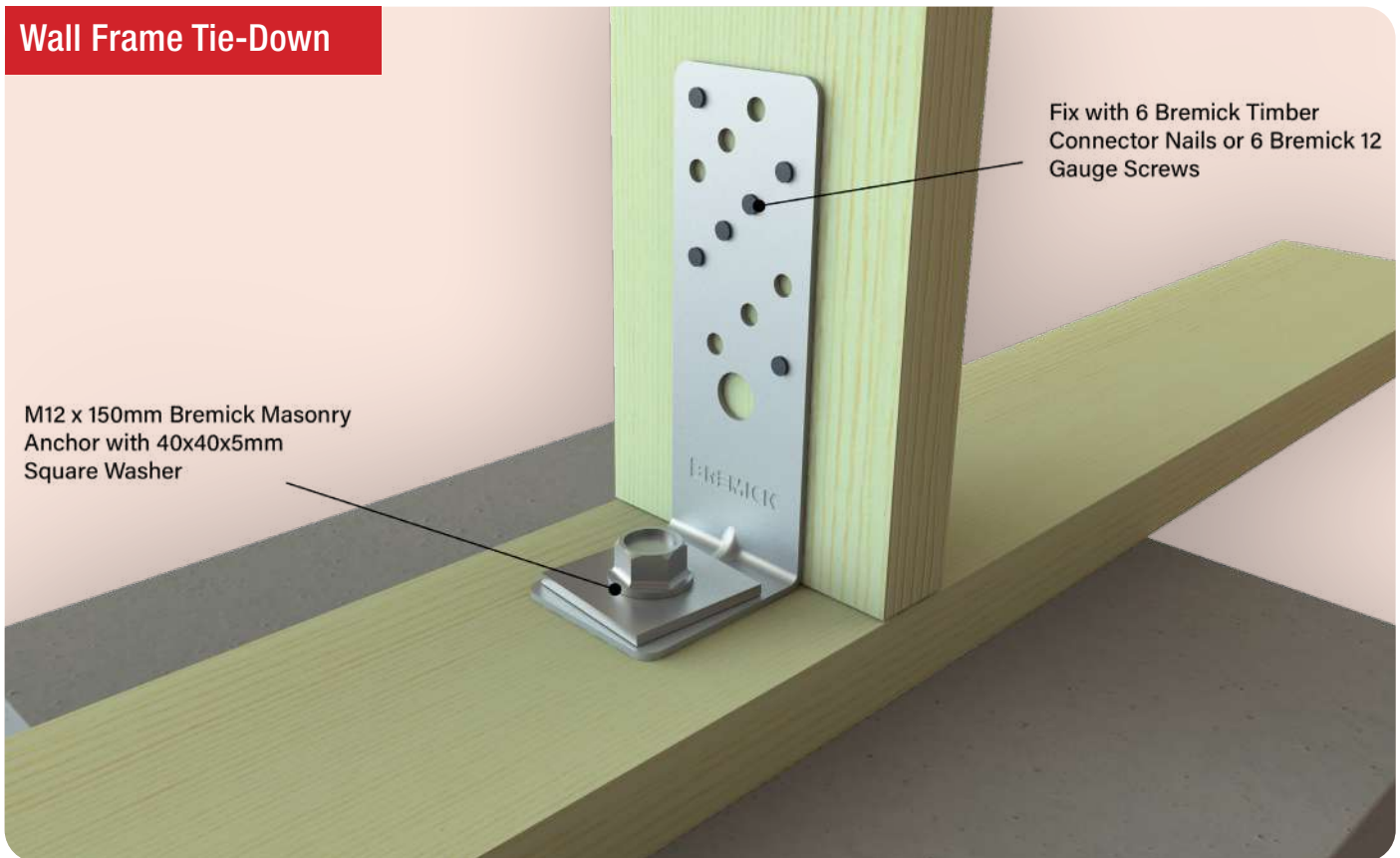
Whilst ensuring the bracket remains in position, fasten the longest flange into the timber truss by drilling Type 17, 12g x 35mm (single truss) or 65mm (double truss) timber screws through the 6 available pre-drilled screw holes. Or hammer Bremick® Timber Connectors nails through the 6 available pre-drilled nail holes.

6

Tighten off the screw onto the square washer.

Installation Instructions

Wall Frame Tie-Down



1

Locate the Bremick Hold Down Bracket, so the longest flange sits flush against the timber stud face and the shortest flange runs along the bottom plate of the wall frame and is centrally located.

2

Whilst ensuring the bracket remains in position, fasten the longest flange into the timber stud by drilling Type 17, 12g x 35mm (single stud) or 65mm (double stud) timber screws through the 6 available pre-drilled screw holes. Or hammer Bremick Timber Connectors nails through the 6 available pre-drilled nail holes.

3

Locate 40 x 40 x 5mm square washer over centrally locate hole on the bottom flange of the bracket.

4

Install the M12 x 150mm Masonry Anchor Screw through the washer and centrally located hole in the bottom flange of the bracket into the wall frame and concrete slab.

Technical Data

HOLD DOWN BRACKET

THDG130055204

LOAD TYPE 1: LONGER FACE USED ON UPLIFTED MEMBER

HOLD DOWN BRACKET

Table 1 UPLIFT CAPACITY: 1 M12 BOLT BOTTOM W/WASHER 6 – 12ga SCREWS TOP

1.2G+WU OR 0.9G-WU						
JOINT GROUP	Seasoned Timber Capacity (kN)					
	JD6	JD5	JD4	JD3	JD2	JD1
	8.5	11.6	16.3	16.3	16.3	16.3
JOINT GROUP	Unseasoned Timber Capacity (kN)					
	J6	J5	J4	J3	J2	J1
	5.2	8.0	11.0	15.5	16.3	16.3

Table 2 UPLIFT CAPACITY: 1 M12 BOLT BOTTOM W/WASHER 6 - 3.15mm DIAMETER NAILS TOP

1.2G+WU OR 0.9G-WU						
JOINT GROUP	Seasoned Timber Capacity (kN)					
	JD6	JD5	JD4	JD3	JD2	JD1
	3.3	4.4	5.3	7.4	9.4	12.5
JOINT GROUP	Unseasoned Timber Capacity (kN)					
	J6	J5	J4	J3	J2	J1
	2.0	2.7	3.5	5.0	7.0	8.9

REMARKS

- Values for Category 1 (secondary members.) Values x 0.94 for Category 2 (primary members) and Category 3 Values x 0.88 for post disaster structures primary members.
- For Where back-to-back plates are used capacity can be doubled
- Loads applied at a limit state, apply additional load factors when designing using AS1170.