

Cyclonic & High Wind Post Support

GALVANISED & SS316

Application

The Bremick® Cyclonic & High Wind Post Support is used for locating posts when setting the post anchor into concrete and achieving maximum hold down values when constructing in high wind zones. Accommodates 90mm, 100mm and 150mm square timber posts. Typically used, during the construction of pergolas, carports, or verandahs.

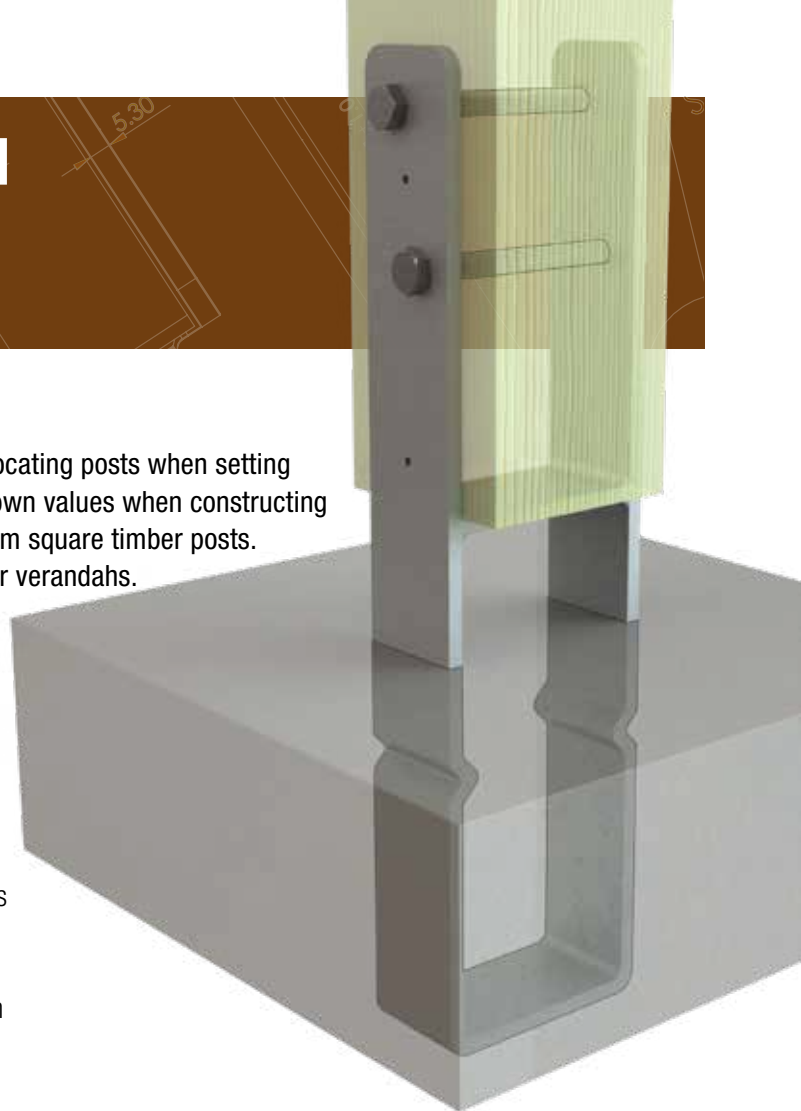
Advantages

The Bremick® Cyclonic & High Wind Post Support provides numerous benefits including:

- Engineered for high wind zones, including cyclonic regions. The U-shape is designed for maximum hold down when set into concrete.
- Hot dipped Galvanised coating or marine grade 316 stainless steel for long term protection against corrosion.
- 6mm thickness in the stirrup for extra strength.
- Designed and engineered to Australian National Construction Code (NCC).
- Product design conforms to Australian Standards.
- AS3660.1 – 2014, Protection of Buildings from Termites, when installed with a 75mm gap between the bottom of the post and the concrete base.
- AS1397 -2021 for Steel Grade 250
- Welded construction for strength.
- Accommodates common square post sizes, 90mm, 100mm and 150mm.

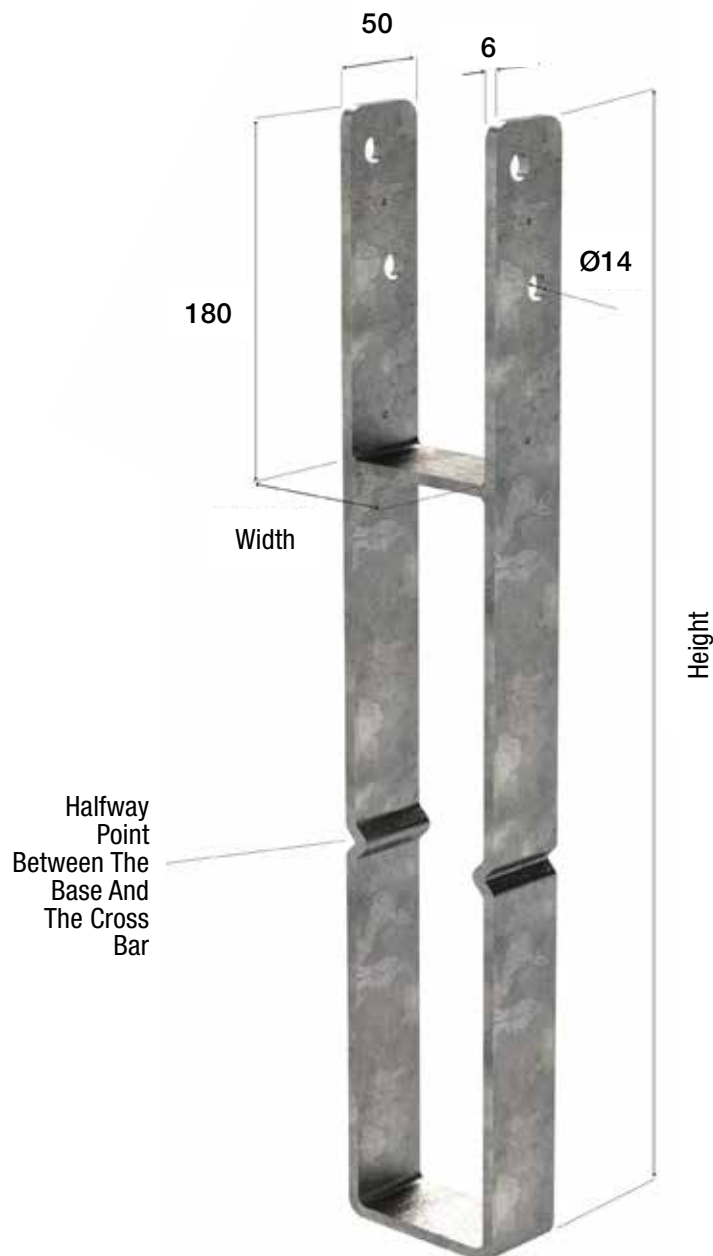
Specifications

Steel Grade	G250
Coating	Hot Dipped Galvanised (HDG); 316 Stainless Steel
Thickness	6mm
Overall Height	300mm, 450mm, 600mm
Stirrup Height from Post Base	180mm
Stirrup Blade Width	150mm, 300mm
Fasteners	M12 Bolts, Nuts and Washers
Posts	90mm, 100mm, 150mm



Bremick® Ranging

Product Code	Suits Post	Coating	Pack Qty
PCUG300090604	300mm x 90mm (Suits M12 Bolts)	HDG	6
PCUG300100604	300mm x 100mm (Suits M12 Bolts)	HDG	6
PCUG450090604	450mm x 90mm (Suits M12 Bolts)	HDG	6
PCUG450100604	450mm x 100mm (Suits M12 Bolts)	HDG	6
PCUG600090604	600mm x 90mm (Suits M12 Bolts)	HDG	6
PCUG600100604	600mm x 100mm (Suits M12 Bolts)	HDG	6
PCUG600150604	600mm x 150mm (Suits M12 Bolts)	HDG	6
PCU6450090604	450mm x 90mm (Suits M12 Bolts)	SS316	4
PCU6450100604	450mm x 100mm (Suits M12 Bolts)	SS316	4
PCU6600090604	600mm x 90mm (Suits M12 Bolts)	SS316	4
PCU6600100604	600mm x 100mm (Suits M12 Bolts)	SS316	4



Installation Instructions

Fixing to wet concrete

1



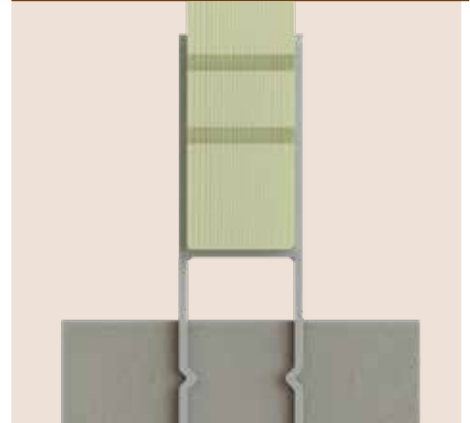
- Determine the centerline of the posts in both projection and width.
- Make sure the post anchor is square to both these directions and orientate it as required.
- Measure and mark the location of the post anchor positioning.
- Ensure the location of the footing is on level ground and set into stable soil. i.e. Class A and S foundation classification to AS2870.
- Dig out the ground and construct formwork to the required depth as specified by your consulting engineer.
- Ensure an allowance is made so there is a 75mm clearance between underside of post to the foundation surface.
- Create temporary framing over the dugout.

2

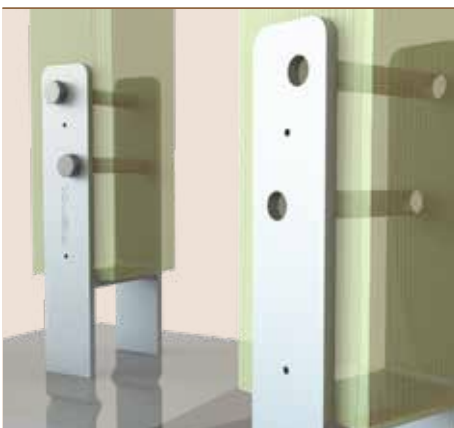


- Position the post anchor in the dugout and suspend using the temporary framing. Ensure the post anchor is vertically plumb and level. Ensure the clearance between underside of post to concrete slab finish surface is at least 75mm.
- Pour the concrete and allow to set.

3



4



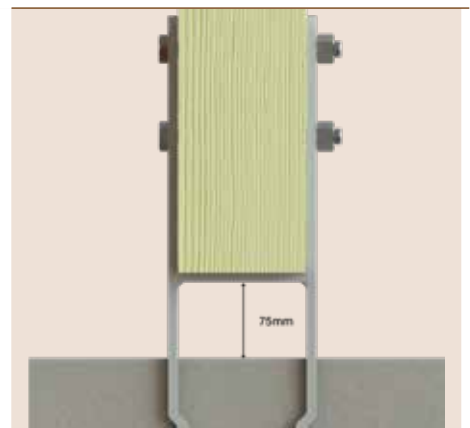
- Position the timber post into the post support stirrup. Ensure the post bears onto the base of the cross member and is vertically plumb.

5



- Drill through the bolt holes located in the side of the post anchor to accommodate M12 bolts. Ensure the drilled holes are horizontally level and perpendicular to the saddle.

6



- Feed the 2 x M12 bolts through the bolt holes and timber post. Locate washer and nuts onto the bolts and tighten. A minimum of 2 x thread pitch should extend beyond the outward surface of the nut.

Technical Data

CYCLONIC & HIGH WIND POST SUPPORT

LIMIT STATE UPLIFT CAPACITY (WIND LOAD) FOR 90mm POSTS

Table 1 CAPACITY: FOR 2-M12 4.6 BOLTS

JOINT GROUP	Seasoned Timber Capacity (kN)					
	JD6	JD5	JD4	JD3	JD2	JD1
	33.3	38.8	44.8	55.5	60.0	60.0
JOINT GROUP	Unseasoned Timber Capacity (kN)					
	J6	J5	J4	J3	J2	J1
	27.2	30.5	35.3	44.8	48.5	57.7

LIMIT STATE UPLIFT CAPACITY (WIND LOAD) FOR 90mm POSTS

- 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
- The product is intended to be embedded in concrete up to the mark indicated on the product. Uplift values may be limited by the capacity base material. The designer should assess the capacity based on the geometry, concrete strength, and concrete reinforcement.