

Half Stirrup

GALVANISED & SS316

Application

The Bremick® Half Stirrup is used for locating posts onto existing concrete or decks or setting into concrete. Ideally suited to uses where the post is located against a wall or step and can only be bolted from one side. Typically used, during the construction of pergolas, carports, or verandahs.

Advantages

The Bremick® Half Stirrup provides numerous benefits including:

- Hot dipped Galvanised coating or marine grade 316 stainless steel for long term protection against corrosion.
- 4mm thickness in the saddle 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.
- AS1397 -2021 for Steel Grade 250
- The stems are sealed to prevent the unseen entry of the termites to the post.
- Welded construction for strength.
- Accommodates common square post sizes and leg lengths from 65mm up to 300mm.
- Options available to use either M10 or M12 bolts, nuts, and washers.

Specifications

Steel Grade	G250
Coating	Hot Dipped Galvanised (HDG); 316 Stainless Steel (SS316)
Thickness	4mm
Stirrup Blade Height	118mm
Stirrup Blade Width	75mm
Post Height	65mm, 125mm, 130mm, 200mm, 300mm
Post Diameter	25mm
Fasteners	M10 & M12 Bolts, Nuts and Washers
Posts	90mm

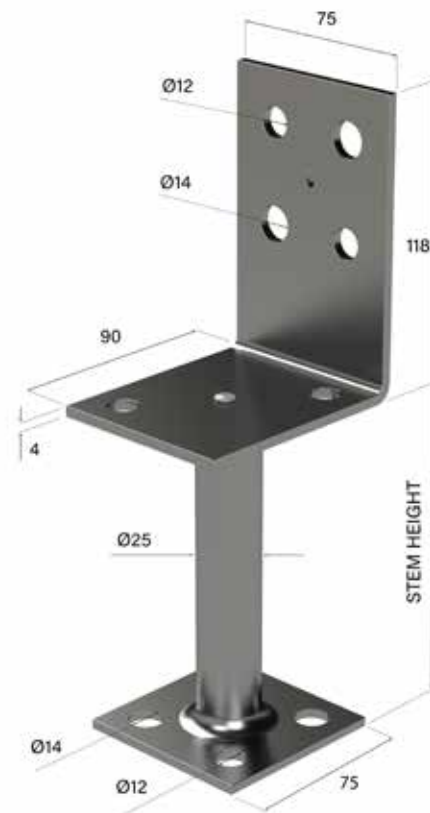


Bremick® Ranging

Product Code	Suits Post	Coating	Pack Qty
PH0G065XXX404	65mm leg (Suits M10 Bolts)	HDG	6
PH0G130XXX404	130mm leg (Suits M10 Bolts)	HDG	6
PH0G200XXX404	200mm leg (Suits M10 Bolts)	HDG	6
PH0G300XXX404	300mm leg (Suits M10 Bolts)	HDG	6
PH2G130XXX404	130mm leg (Suits M12 Bolts)	HDG	6
PH2G200XXX404	200mm leg (Suits M12 Bolts)	HDG	6
PH2G300XXX404	300mm leg (Suits M12 Bolts)	HDG	6
PH06125XXX404	125mm leg (Suits M10 & M12 Bolts)	SS316	4
PH06200XXX404	200mm leg (Suits M10 & M12 Bolts)	SS316	4
PH06300XXX404	300mm leg (Suits M10 & M12 Bolts)	SS316	4

Installation Instructions

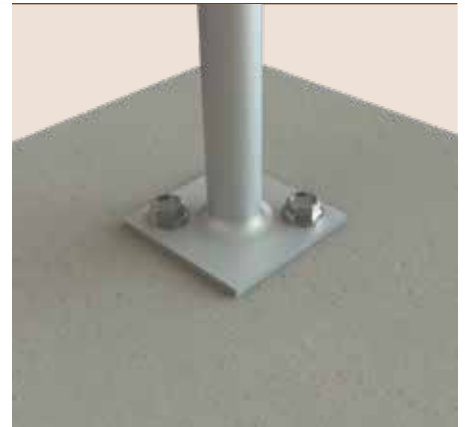
Fixing to existing concrete slab or patio



1



2



- Determine the centerline of the posts in both projection and width.
- Make sure the post anchor is square to both these directions and mark the hole locations of the post anchor via the bolt holes in the plate at the base of the stem.
- Remove the post anchor and drill the holes where the marks are. A hammer drill works well. Drill to the appropriate width and depth to accommodate your chosen concrete screw-in anchor. Suggested minimum screw embedment depth is 100mm.

- Replace the post anchor over the drilled holes, ensure the holes within the base plate are over the top of the pre-drilled holes.
- With a spirit level make sure the post anchor is perpendicular to the patio or concrete slab. If not, washers can be used between the post anchor and concrete to level the post anchor.
- Place the concrete screw-in anchor through the holes in the post anchor base plate and into the pre-drilled holes.
- Tighten the screw-in anchor down onto the post anchor's base plate.

3



4



- Position the timber post into the post anchor saddle. Ensure the post bears onto the base of the bracket and is vertically plumb.
- Drill through the bolt holes located in the side of the post anchor to accommodate M10 or M12 bolts. Ensure the drilled holes are horizontally level and perpendicular to the saddle.

- Feed the 2 x M10/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.
- Alternatively install 18G x 45mm or 24G x 50mm construction screws through the bolt holes.

Installation Instructions

Fixing to wet concrete

1



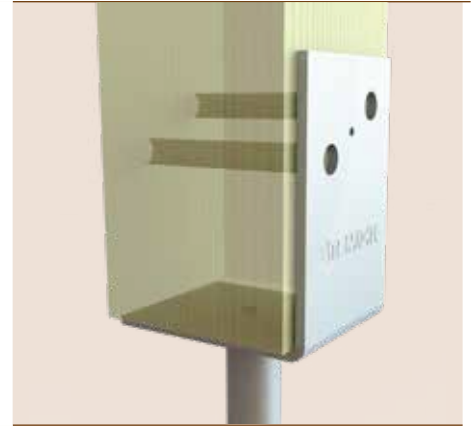
- Determine the centerline of the posts in both projection and width.
- Make sure the post anchor is square to both these directions and orientate it as required.
- Measure and mark the location of the post anchor positioning.
- Ensure the location of the footing is on level ground and set into stable 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 for the stem to be embedded at least 150mm and there is a 75mm clearance between underside of post to 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



- Position the timber post into the post anchor saddle. Ensure the post bears onto the base of the bracket and is vertically plumb.
- Drill through the bolt holes located in the side of the post anchor to accommodate M10 or M12 bolts. Ensure the drilled holes are horizontally level and perpendicular to the saddle.

4



5



- Feed the 2 x M10/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.
- Alternatively install 18G x 45mm or 24G x 50mm construction screws through the bolt holes or M10/M12 coach screws.

Technical Data

POST SUPPORT HALF STIRRUP – GALVANISED & STAINLESS STEEL 316

LIMIT STATE COMPRESSION CAPACITY (ALL LOAD COMBINATIONS)

Table 1

G300		SS316	
Leg Height (mm)	1.2G+1.5Q (KN)	Leg Height (mm)	1.2G+1.5Q (KN)
65	20	125	16
130	19	200	15
200	17	300	12
300	13		

REMARKS

Uplift values may be limited by the capacity of the fixings to the base material. See appropriate Bremick fastener capacities.

Downward values applicable when:

- The post stirrup is sitting on a level surface and secure fixed in place.
- The timber post is securely bolted/coach screwed.
- The post is centred in the post stirrup.
- The post is sitting down snug into in the post stirrup (no gap between stirrup and timber post.)