

Half Stirrup with Solid Stem

GALVANISED

Application

The Bremick® Half Stirrup with Solid Stem is used for locating posts when setting the post anchor into concrete. Accommodates 90mm square timber posts. Typically used, during the construction of pergolas, carports, or verandahs.

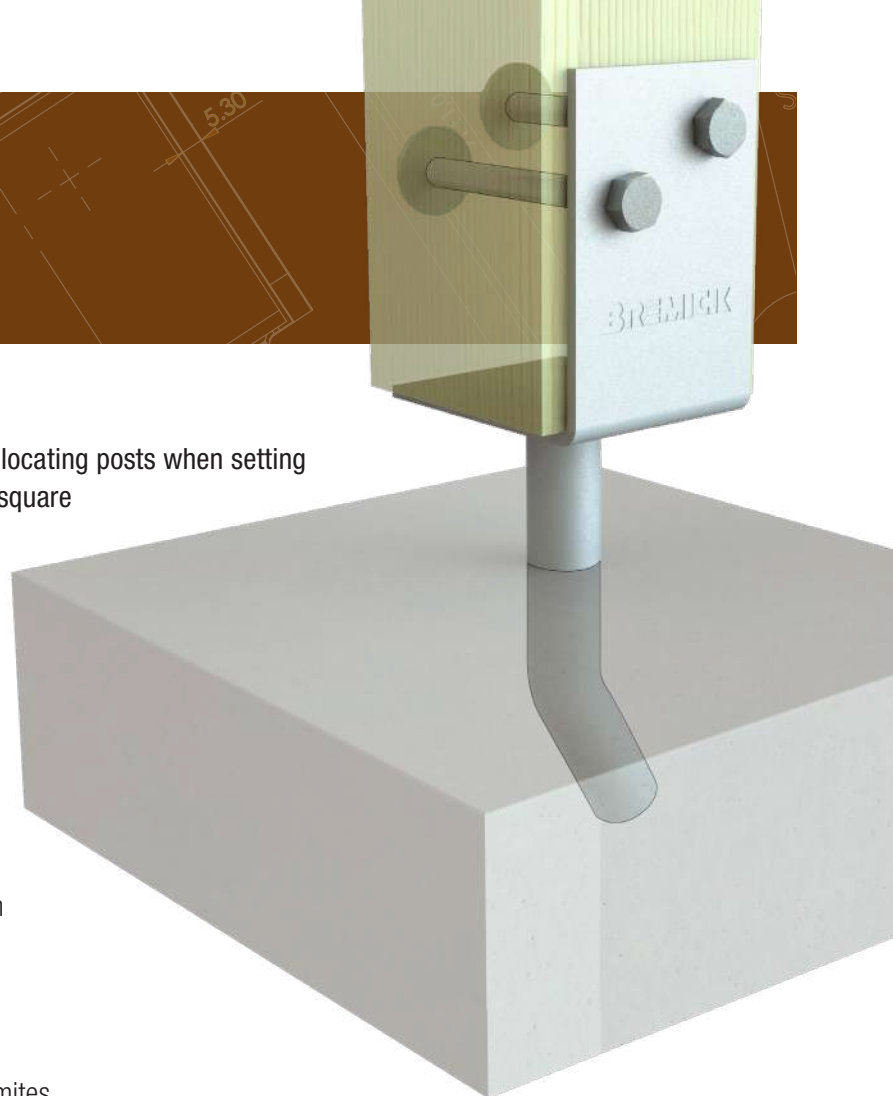
Advantages

The Bremick® Half Stirrup with Solid Stem provides numerous benefits including:

- Hot dipped Galvanised coating for long term protection against corrosion.
- 4mm thickness in the saddle for extra strength.
- Solid steel, curved leg provides support to the structure and added resistance to uplift forces when embedded in concrete.
- 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 150mm & 300mm leg lengths.

Specifications

| | |
|----------------------|-----------------------------|
| Steel Grade | G250 |
| Coating | Hot Dipped Galvanised (HDG) |
| Thickness | 4mm |
| Stirrup Blade Height | 114mm |
| Stirrup Blade Width | 75mm |
| Stem Height | 150mm, 300mm |
| Stem Diameter | Solid 25mm |
| Fasteners | M10 Bolts, Nuts and Washers |



Bremick® Ranging

| Product Code | Suits Post | Coating | Pack Qty |
|---------------|-----------------------------|---------|----------|
| PHWG150090404 | 150mm leg (Suits M10 Bolts) | HDG | 6 |
| PHWG300090404 | 300mm leg (Suits M10 Bolts) | HDG | 6 |

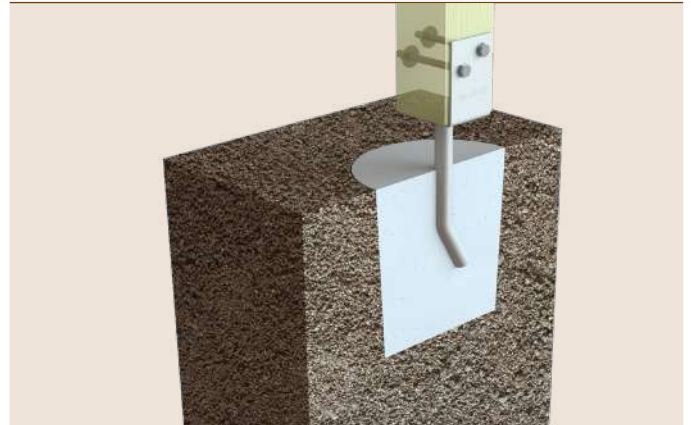
Installation Instructions

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 bolts. Ensure the drilled holes are horizontally level and perpendicular to the saddle.

4



- Feed the 2 x M10 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 construction screws through the bolt holes or M10 coach screws.

Technical Data

POST SUPPORT HALF STIRRUP – SOLID STEM

LIMIT STATE UPLIFT CAPACITY (WIND LOAD) FOR 90X90mm POSTS

Table 1 CAPACITY: FOR 2 x M10 BOLTS

| Product | Capacity (All joint groups) (kN) |
|---------------------------|----------------------------------|
| HALF STIRRUP - SOLID STEM | 5 |

Table 2 CAPACITY: FOR 4-M10 x 50mm COACH SCREWS USED

| Product | | | | | | |
|---------------------------|---------------------------------|-----|-----|-----|-----|-----|
| HALF STIRRUP - SOLID STEM | | | | | | |
| JOINT GROUP | Seasoned Timber Capacity (kN) | | | | | |
| | JD6 | JD5 | JD4 | JD3 | JD2 | JD1 |
| | 3.4 | 5 | 5 | 5 | 5 | 5 |
| JOINT GROUP | Unseasoned Timber Capacity (kN) | | | | | |
| | J6 | J5 | J4 | J3 | J2 | J1 |
| | 2.5 | 3.0 | 4.2 | 5 | 5 | 5 |

REMARKS

- ** The capacities are further limited by the capacity of the stem in the concrete. The designer should independently assess this capacity
- 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