Heavy Duty U-Cup Bolt Down
GALVANISED

Application
The Bremick® Heavy Duty U-Cup Bolt Down is used for locating posts onto existing concrete or decks. Accommodates square timber posts in 75mm, 90mm, 100mm, 125mm and 140mm dimensions. Typically used during the construction of pergolas, carports, or verandahs.

Advantages
The Bremick® Heavy Duty U-Cup Bolt Down provides numerous benefits including:

- Hot dipped Galvanised coating for long term protection against corrosion.
- 5mm thickness for extra strength.
- Simple to install.
- Designed for deep timber post placement.
- Timber post sits on bracket to help prevent the base of the post sitting in pools of water.

Specifications

AS1720 Compliant

Engineered Performance ★ Compliance Tested ★

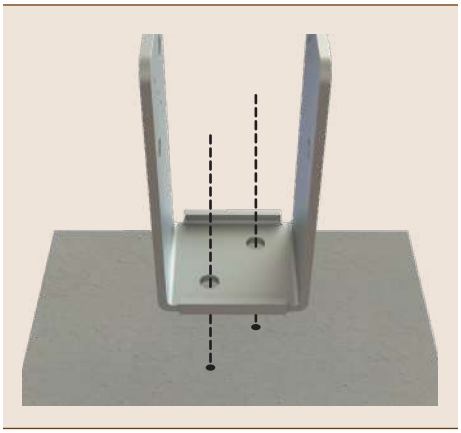
Steel Grade	G250
Coating	Hot Dipped Galvanised (HDG)
Thickness	5.0mm
Blade Height	164mm
Blade Width	75mm
Fasteners	M10 Bolts, Nuts and Washers
Posts	75mm, 90mm, 100mm, 125mm, 140mm

Bremick® Ranging

Product Code	Suits Post	Coating	Pack Qty
PBHG075075504	For 75mm Post	HDG	6
PBHG090075504	For 90mm Post	HDG	6
PBHG100075504	For 100mm Post	HDG	6
PBHG125075504	For 125mm Post	HDG	6
PBHG140075504	For 140mm Post	HDG	6

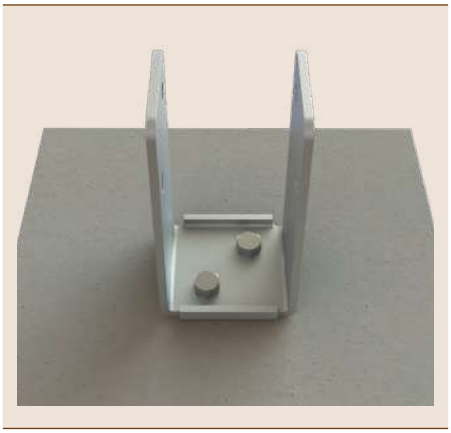
Installation Instructions

1



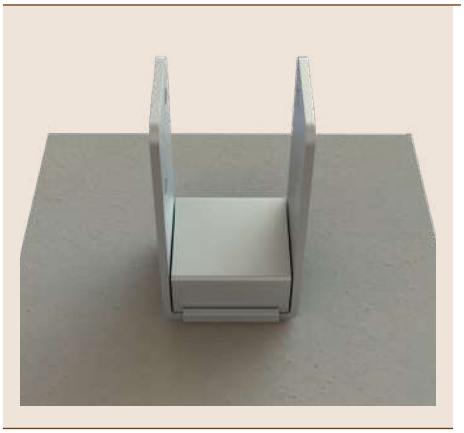
- Determine the centerline of the posts in both projection and width.
- Place the post anchor back into position and make sure the post anchor is square to both the directions.
- Mark the 2 x holes to be drilled through the bolt holes in the base of the post anchor.
- Remove the post anchor and drill the holes where the marks are. A hammer drill works well. Drill to the appropriate width and depth to accommodate the appropriate Bremick concrete screw-in anchor. Suggested minimum screw embedment depth is 100mm.

2



- Relocate the post anchor back into position.
- 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.

3



- Tighten the screw-in anchor down onto the post anchor's base plate.
- Place cover plate over fasteners.

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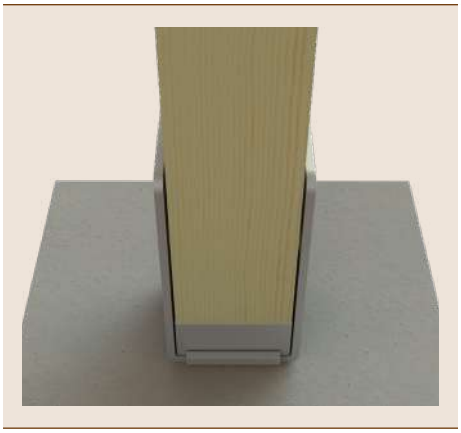

- Position the timber post into the post anchor saddle. Ensure the post bears onto the base of the bracket and is vertically plumb.

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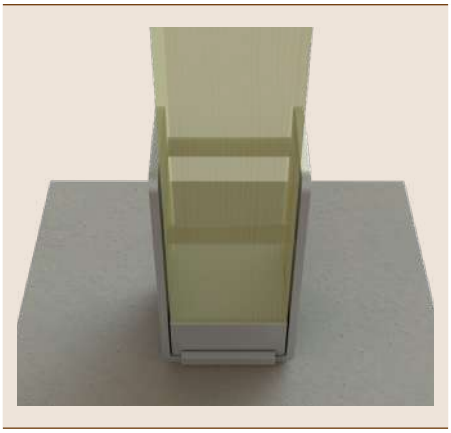

- Drill through the bolt holes located in the side of the post anchor to accommodate M10 bolts. Ensure the drilled holes are horizontally level and perpendicular to the saddle.
- If using coach screws, pilot drill to the length of the selected fastener. Then install coach screw. Alternatively fasten with 18G x 45mm construction screws.

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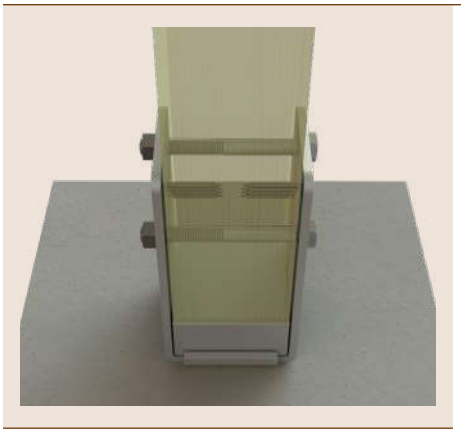

- Feed the 2 x M10 bolts through the bolt holes and timber post. Locate washer and nuts onto the bolts and tighten. A minimum of 2 x thread pitch should extend beyond the outward surface of the nut.

Technical Data

POST SUPPORT HEAVY DUTY U-CUP BOLT DOWN

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

Table 1 CAPACITY: FOR **4-M10 x 50mm** COACH SCREWS USED

JOINT GROUP	Seasoned Timber Capacity (kN)					
	JD6	JD5	JD4	JD3	JD2	JD1
	6.4	9.6	13.9	19.7	21.7	22.0
JOINT GROUP	Unseasoned Timber Capacity (kN)					
	J6	J5	J4	J3	J2	J1
	4.6	5.5	7.7	12.1	15.1	17.9

Table 2 CAPACITY: FOR **2-M10 4.6/s** BOLT

JOINT GROUP	Seasoned Timber Capacity (kN)					
	JD6	JD5	JD4	JD3	JD2	JD1
	20.5	22.0	22.0	22.0	22.0	22.0
JOINT GROUP	Unseasoned Timber Capacity (kN)					
	J6	J5	J4	J3	J2	J1
	16.7	18.8	21.7	22.0	22.0	22.0

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
- Uplift values applicable when base bolted down tight to a hard level surface such as concrete or steel
- Uplift values may be limited by the capacity of the fixings to the base material. See appropriate Bremick fastener capacities.

LIMIT STATE COMPRESSION CAPACITY (ALL LOAD COMBINATIONS)

Table 3

Code	WIDTH (MM)	Nd,c (KN)
PBHG075075504	76	13
PBHG090075504	91	16
PBHG100075504	101	18
PBHG125075504	126	23
PBHG140075504	141	26

REMARKS

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 the post stirrup (no gap between stirrup and timber post).