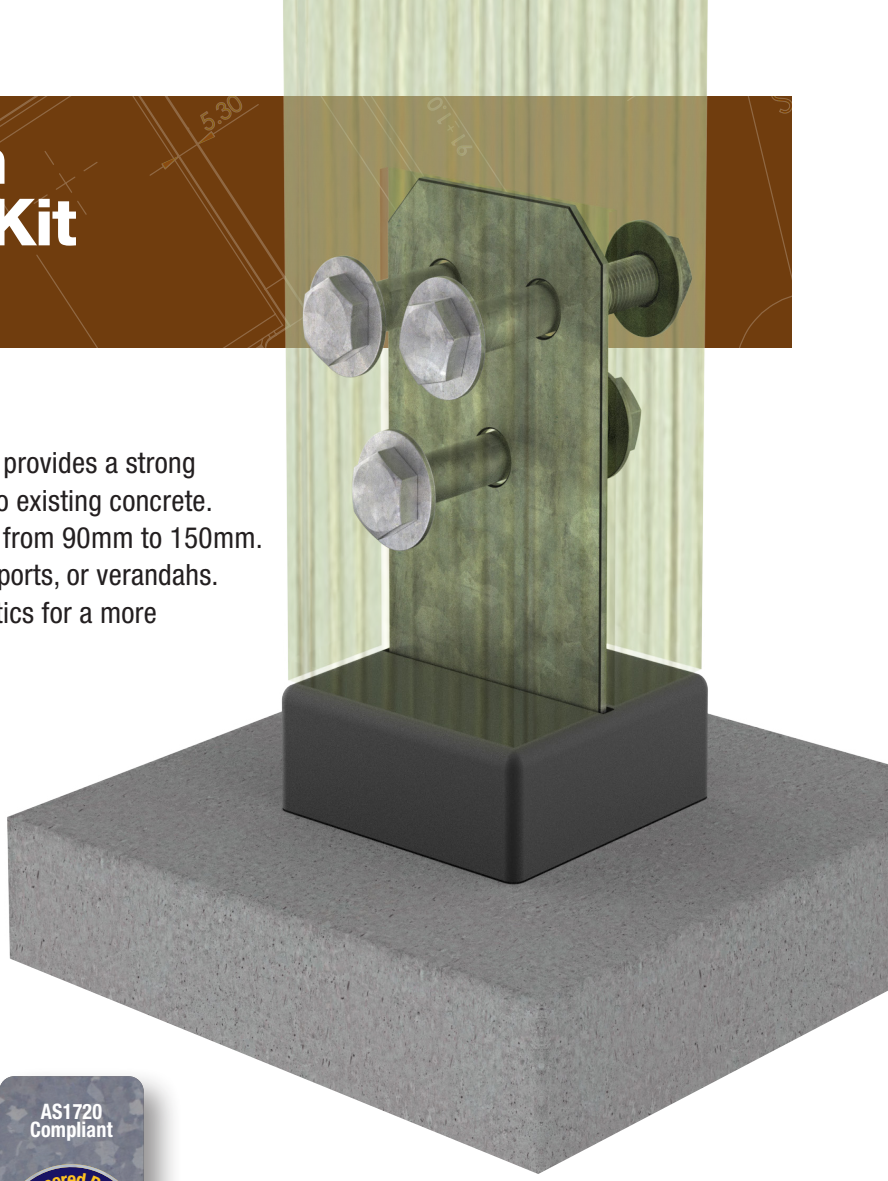
# T Blade Bolt Down & Base Plate Cap Kit
## GALVANISED



## Application
The Bremick® T Blade Bolt Down & Base Plate Cap Kit provides a strong and solid connection when used for locating posts onto existing concrete. Accommodates square timber posts ranging in widths from 90mm to 150mm. Typically used during the construction of pergolas, carports, or verandahs. The T Blade Base Plate Cap provides improved aesthetics for a more decorative appearance.

## Advantages
The Bremick® T Blade Bolt Down & Base Plate Cap Kit provides numerous benefits including:

- Galvanised coating for superior protection against corrosion.
- 3mm thickness for extra strength.
- Base Plate Cap conceals base plate fixings.
- Powder coated black base plate cap provides a stylish appearance.
- Timber post sits on base plate cap to help prevent the base of the post sitting in pools of water.

AS1720 Compliant

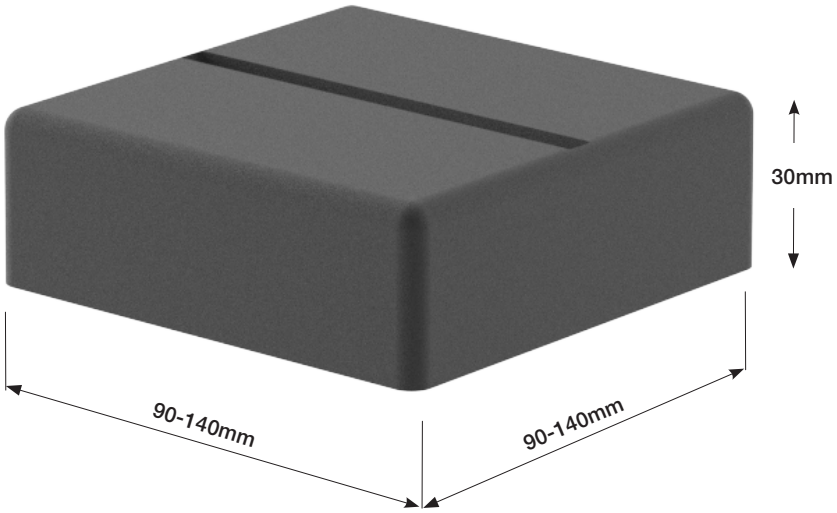
Engineered Performance Tested Compliance

## Specifications

| | |
|---|---|
| Steel Grade | G350 |
| Coating | Galvanised + Black Powder Coated Base Plate Cap |
| Thickness | 3mm |
| Blade Height | 145mm |
| Blade Width | 80 – 130mm |
| Fasteners | M12 Bolts, Nuts and Washers |
| Posts | 90 – 150mm |


## Dimensions

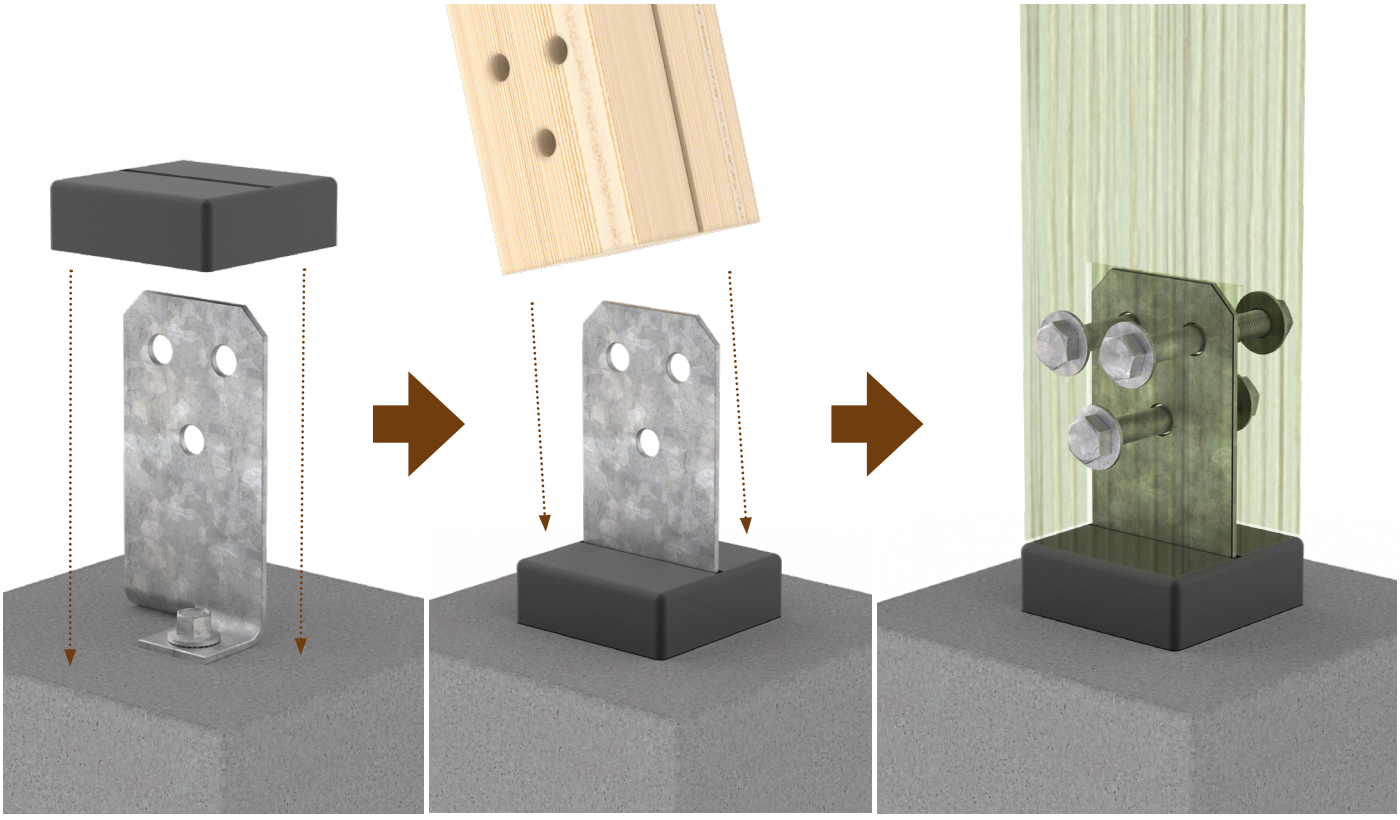
| Post Size | Size - Base Plate (mm) | Blade Height (mm) | Thick-ness (mm) | Bolt Size |
|---|---|---|---|---|
| 90 - 100mm | 90 | 145 | 3 | M12 |
| 110 - 120mm | 110 | 145 | 3 | M12 |
| 115 - 125mm | 115 | 145 | 3 | M12 |
| 140 - 150mm | 140 | 145 | 3 | M12 |




## Bremick® Ranging – Galvanised / Powder Coated Black Base Plate Cap

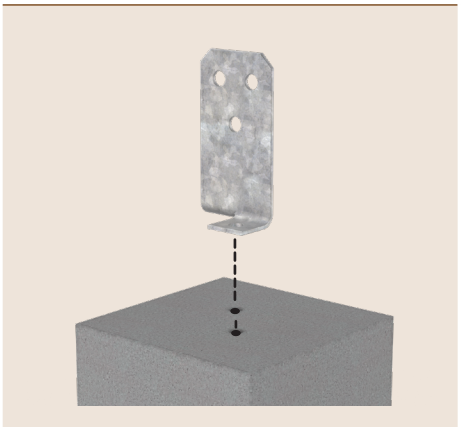
### T Blade Bolt Down & Base Plate Cap Kit

| Product Code | Suits Post | Coating | Pack Qty |
|---|---|---|---|
| PTBG090145033 | 90 - 100mm | Galvanised/Powder Coated Black | 6 |
| PTBG110145033 | 110 - 120mm | Galvanised/Powder Coated Black | 6 |
| PTBG115145033 | 115 - 125mm | Galvanised/Powder Coated Black | 6 |
| PTBG140145033 | 140 - 150mm | Galvanised/Powder Coated Black | 6 |



# Installation Instructions

## 1



- Determine the centerline of the T Blade Bolt Down in both projection and width.
- Place the T Blade Bolt Down back into position and make sure the T Blade Bolt Down is square to both the directions.
- Mark the 2 x holes to be drilled through the bolt holes in the base of the T Blade Bolt Down.
- Remove the T Blade Bolt Down 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 T Blade Bolt Down back into position.
- With a spirit level make sure the T Blade Bolt Down is perpendicular to the patio or concrete slab. If not, washers can be used between the T Blade Bolt Down and concrete to level the T Blade Bolt Down.
- Place the concrete screw-in anchor through the holes in the T Blade Bolt Down base plate and into the pre-drilled holes.

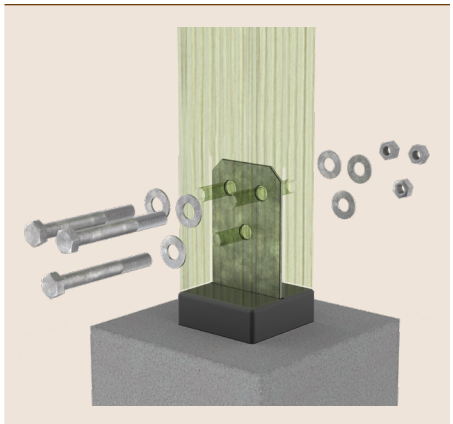
## 3

- Tighten the screw-in anchor down onto the T Blade Bolt Down base plate.
- Place base plate cap plate over fasteners by sliding the cap over the blade, working the cap into position over the base plate.

## 4

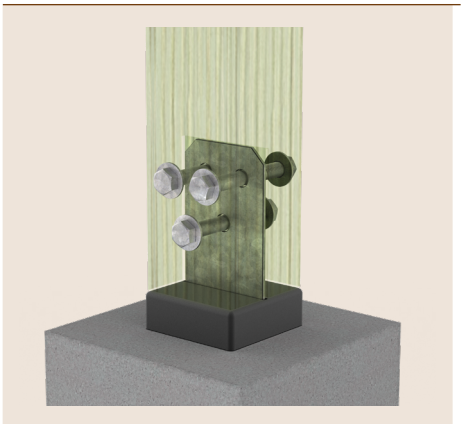
- Use a circular saw to cut a 3mm slot through the centre of the post to a depth of the blade height.
- Mark side hole locations onto the post using another T Blade Bolt Down blade as a stencil.
- Place timber upright over the blade. Ensure the post bears onto the base of the base plate cap and is vertically plumb.

## 5



- Drill holes to accommodate appropriately sized bolts either side of the timber, meeting at the middle holes of the blade of the T Blade Bolt Down. Ensure drill through holes are horizontally levelled and perpendicular to the blade.

## 6



- Feed the 3 x appropriate sized bolts through the bolt holes of the centre blade 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

## T BLADE BOLT DOWN & BASE PLATE CAP KIT

### LIMIT STATE UPLIFT CAPACITY (WIND LOAD)

| JOINT GROUP | Seasoned Timber Capacity (kN) | | | | |
|---|---|---|---|---|---|
| | JD5 | JD4 | JD3 | JD2 | JD1 |
| PTBG090145033 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 |
| PTBG110145033 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 |
| PTBG115145033 | 5 | 5 | 5 | 5 | 5 |
| PTBG140145033 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 |
| JOINT GROUP | Unseasoned Timber Capacity (kN) | | | | |
| | J5 | J4 | J3 | J2 | J1 |
| PTBG090145033 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 |
| PTBG110145033 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 |
| PTBG115145033 | 5 | 5 | 5 | 5 | 5 |
| PTBG140145033 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 |

### 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.
- Post must be at least as wide as the base plate.
- All fastening holes must be utilised - with 12mm diameter bolts.

### LIMIT STATE COMPRESSION CAPACITY

| Code | Limit State Dead Load (Down) Capacity (kN) |
|---|---|
| PTBG090145033 | 8 |
| PTBG110145033 | 10 |
| PTBG115145033 | 10 |
| PTBG140145033 | 13 |

### REMARKS

Downward values applicable when:

- The T Blade is sitting on a level surface and secure fixed in place.
- The timber post is securely bolted. All fastening holes must be utilised - with 12mm diameter bolts.
- The post is centred in the T Blade.
- The post is sitting down snug into the T Blade (no gap between blade and timber post).
- Posts must be at least as wide as the base plate.