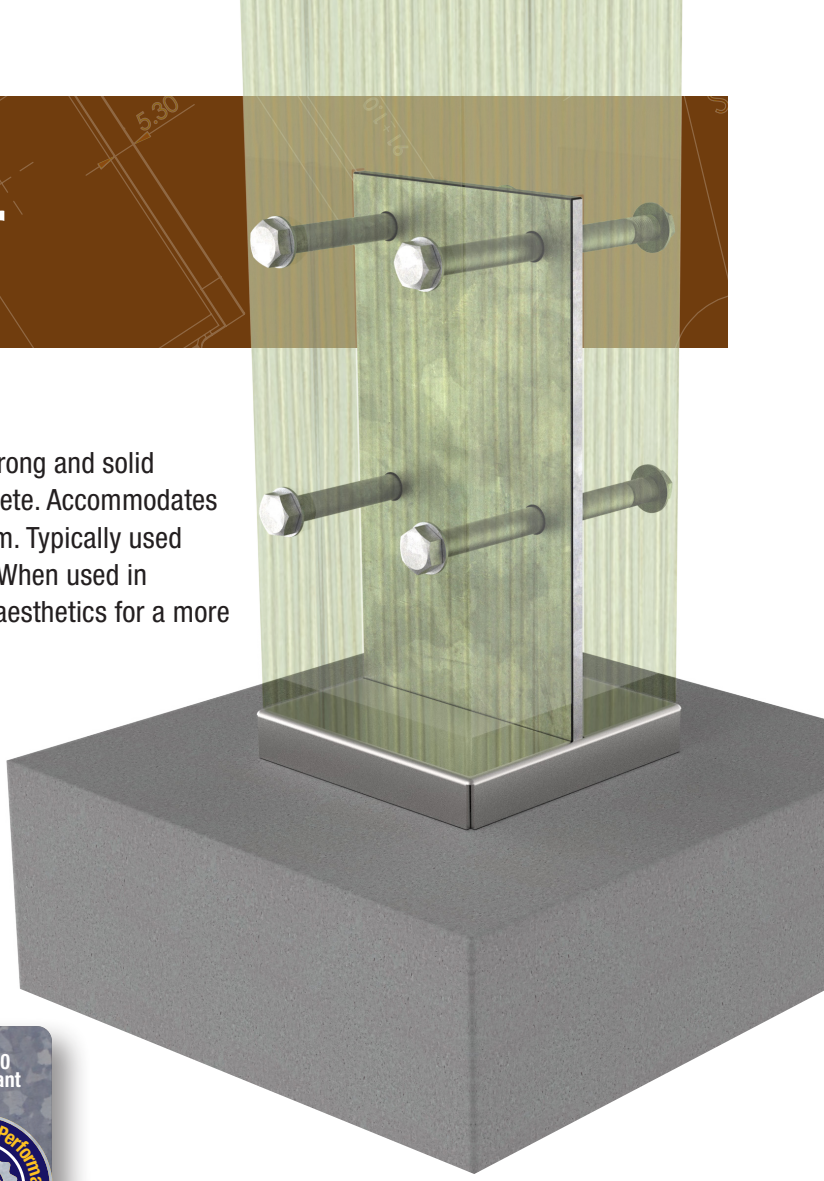
Heavy Duty T Blade Post Anchor

GALVANISED & SS304



Application

The Bremick® Heavy Duty T Blade Post Anchor provides a strong and solid connection when used for locating posts onto existing concrete. Accommodates square timber posts ranging in widths from 90mm to 350mm. Typically used during the construction of pergolas, carports, or verandahs. When used in conjunction with the Base Plate Cap they provide improved aesthetics for a more decorative appearance.

Advantages

The Bremick® Heavy Duty T Blade Post Anchor provides numerous benefits including:

- Hot dipped Galvanised coating for long term protection against corrosion or stainless steel 304 for superior protection against corrosion.
- 10 or 12mm thickness for extra strength.
- Base Plate Cap conceals base plate fixings (sold separately).
- Timber post sits on base plate cap to help prevent the base of the post sitting in pools of water.
- Welded construction for strength.

AS1720 Compliant

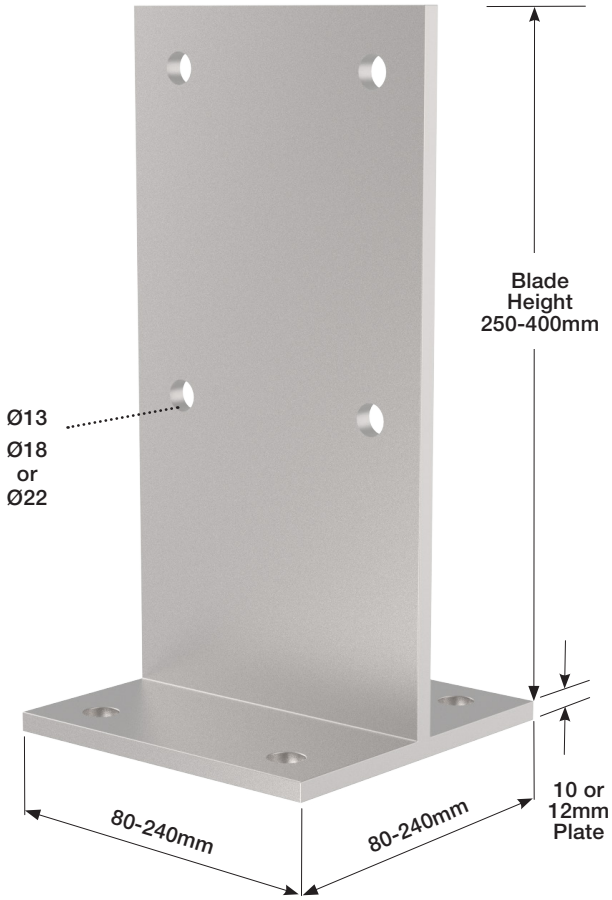
Engineered Performance ★ Compliance Tested ★

Specifications

Steel Grade	G250
Coating	Hot Dipped Galvanised (HDG), Stainless Steel (304)
Thickness	10 or 12mm
Blade Height	250 – 400mm
Blade Width	80 – 240mm
Fasteners	M12 – M20 Bolts, Nuts and Washers
Posts	90 – 350mm

Dimensions

Post Size	Size - Base Plate (mm)	Blade Height (mm)	Thick-ness (mm)	Bolt Size
90 - 100mm	80	250	10	M12
115 - 140mm	110	275	10	M16
150 - 180mm	140	300	10	M16
180 - 250mm	180	350	10	M16
250 - 350mm	240	400	12	M20

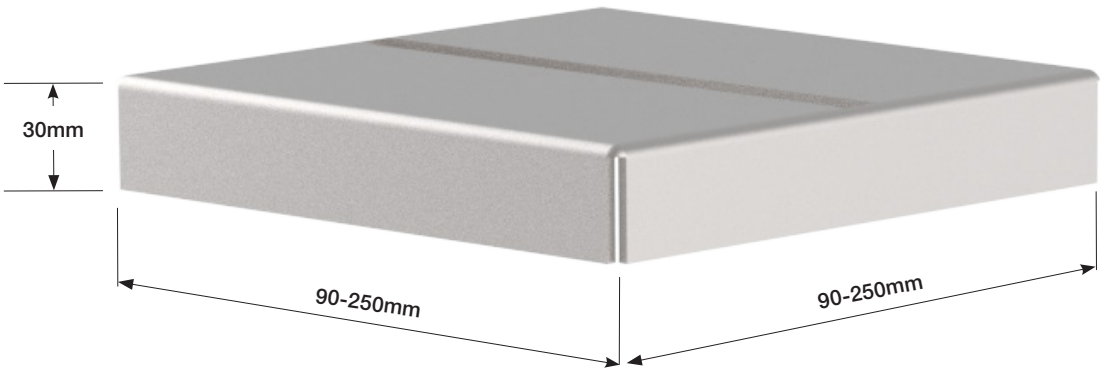


Bremick® Ranging – Hot Dipped Galvanised & Stainless Steel 304 T Blade Post Anchor

Product Code	Suits Post	Coating	Pack Qty
PTBG080250104	90 - 100mm	HDG	4
PTBG110275104	115 - 140mm	HDG	4
PTBG140300104	150 - 180mm	HDG	4
PTBG180350104	180 - 250mm	HDG	2
PTBG240400104	250 - 350mm	HDG	1
PTB4080250104	90 - 100mm	SS304	4
PTB4110275104	115 - 140mm	SS304	4
PTB4140300104	150 - 180mm	SS304	2
PTB4180350104	180 - 250mm	SS304	2
PTB4240400104	250 - 350mm	SS304	1

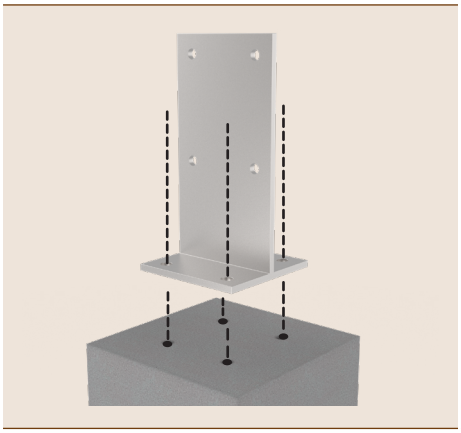
Bremick® Ranging – Stainless Steel 304 Base Plate Cap (sold separately)

Product Code	Suits Base Plate size	Coating	Pack Qty
PTB4CAP090304	80 x 80mm	SS304	4
PTB4CAP120304	110 x 110mm	SS304	4
PTB4CAP150304	140 x 140mm	SS304	2
PTB4CAP190304	180 x 180mm	SS304	2
PTB4CAP250304	240 x 240mm	SS304	1



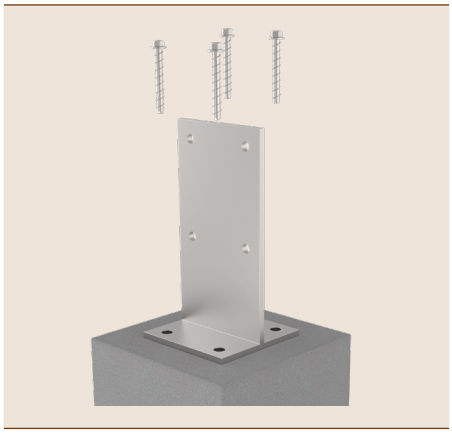
Installation Instructions

1



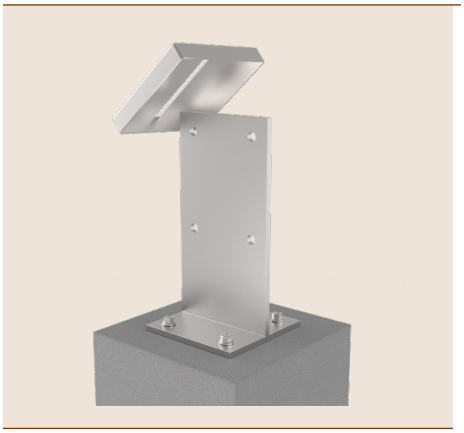
- Determine the centerline of the T blade post anchor in both projection and width.
- Place the post anchor back into position and make sure the post anchor is square to both the directions.
- Mark the 4 x holes to be drilled through the bolt holes in the base of the post anchor.
- Remove the post anchor 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 base plate cap over fasteners by sliding the cap over the blade, working the cap into position over the base plate.

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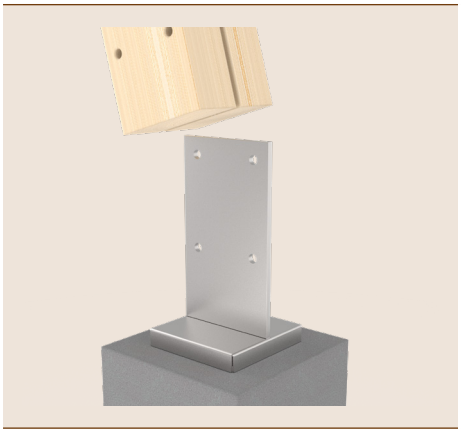

- Use a circular saw to cut a 10mm slot (or a 12mm slot for PTBG240400104, PTB4240400104) through the centre of the post to a depth of blade height.
- Mark side hole locations onto the post using another blade as a stencil.
- Place timber upright over the blade. Ensure the post bears onto the base of the base plate cap and is vertically plumb.

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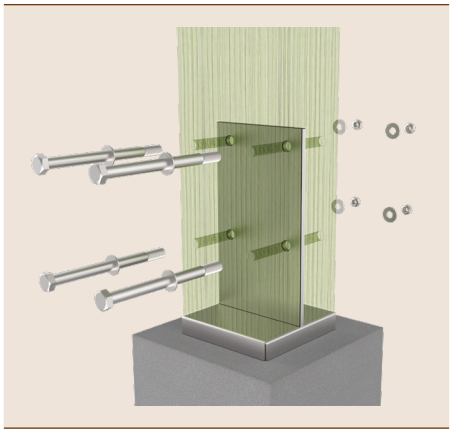

- Drill holes to accommodate appropriately sized bolts either side of the timber, meeting at the middle holes of the blade of the post anchor. Ensure drill through holes are horizontally levelled and perpendicular to the blade.

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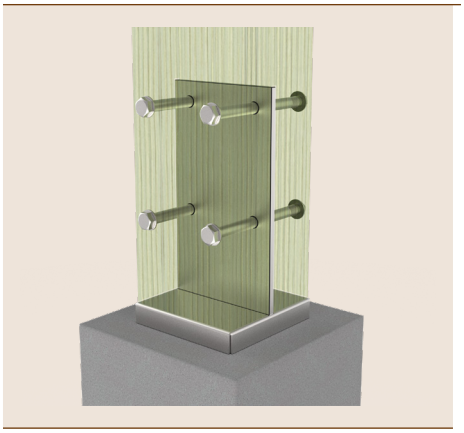
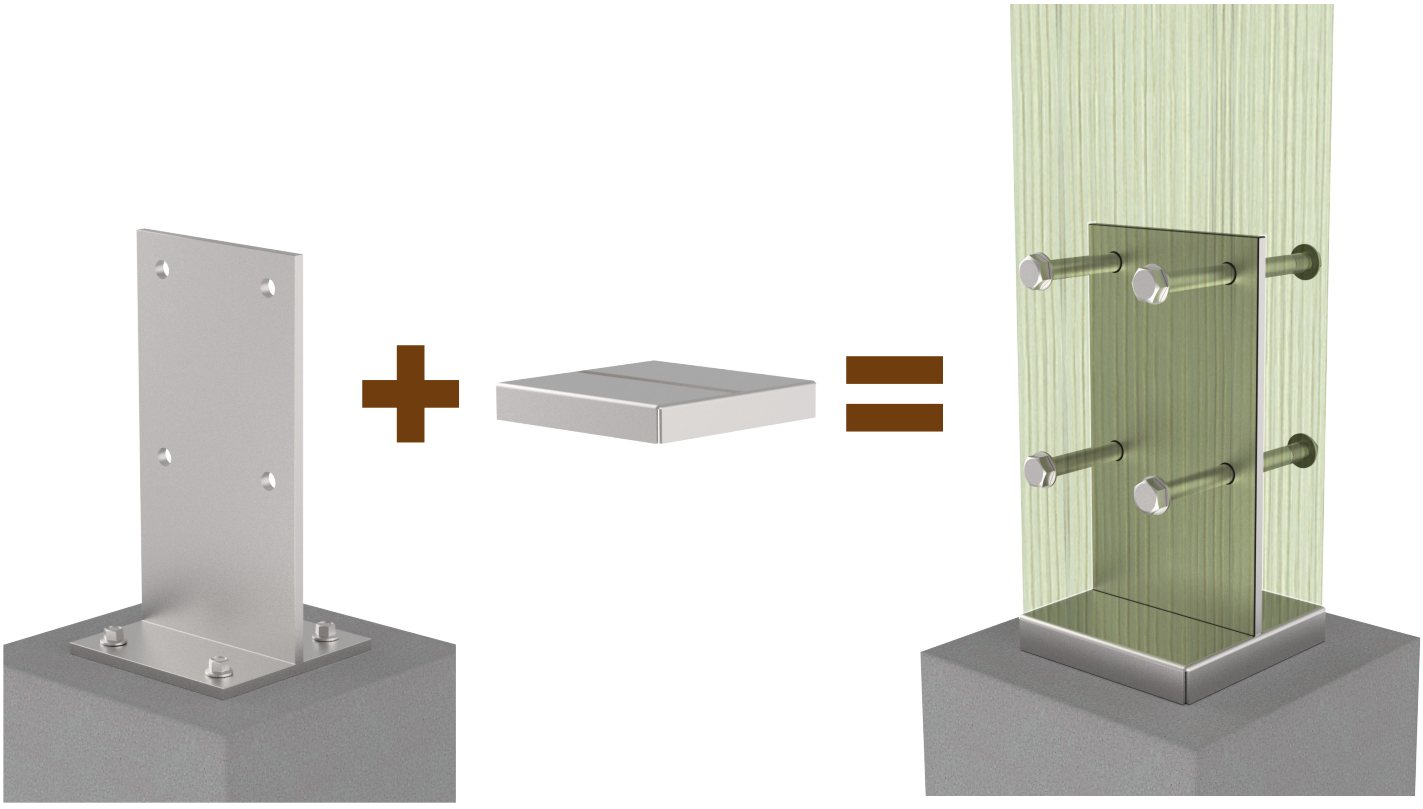


- Feed the 4 x appropriate sized bolts through the bolt holes of the centre blade and timber post. Locate washer and nuts onto the bolts and tighten. A minimum of 2 x thread pitch should extend beyond the outward surface of the nut.

Installation Instructions



T BLADE

BASE PLATE CAP

ASSEMBLED

Technical Data

HEAVY DUTY T BLADE POST ANCHOR

LIMIT STATE UPLIFT CAPACITY (WIND LOAD) - HOT DIPPED GALVANISED

JOINT GROUP	Seasoned Timber Capacity (kN)				
	JD5	JD4	JD3	JD2	JD1
M12 Bolts x 2	17	19	24	26	31
M12 Bolts x 4	33	38	47	50	50
M16 Bolts x 2	29	33	37	37	37
M16 Bolts x 4	37	37	37	37	37
M20 Bolts x 2	36	36	36	36	36
M20 Bolts x 4	36	36	36	36	36
JOINT GROUP	Unseasoned Timber Capacity (kN)				
	J5	J4	J3	J2	J1
M12 Bolts x 2	13	15	19	21	25
M12 Bolts x 4	26	30	38	42	49
M16 Bolts x 2	23	26	33	36	37
M16 Bolts x 4	37	37	37	37	37
M20 Bolts x 2	28	33	36	36	36
M20 Bolts x 4	36	36	36	36	36

LIMIT STATE UPLIFT CAPACITY (WIND LOAD) - STAINLESS STEEL 304

JOINT GROUP	Seasoned Timber Capacity (kN)				
	JD5	JD4	JD3	JD2	JD1
M12 Bolts x 2	17	19	24	26	31
M12 Bolts x 4	33	38	41	41	41
M16 Bolts x 2	29	30	30	30	30
M16 Bolts x 4	30	30	30	30	30
M20 Bolts x 2	30	30	30	30	30
M20 Bolts x 4	30	30	30	30	30
JOINT GROUP	Unseasoned Timber Capacity (kN)				
	J5	J4	J3	J2	J1
M12 Bolts x 2	13	15	19	21	25
M12 Bolts x 4	26	30	38	41	41
M16 Bolts x 2	23	26	30	30	30
M16 Bolts x 4	27	30	30	30	30
M20 Bolts x 2	30	30	30	30	30
M20 Bolts x 4	30	30	30	30	30

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.
- There must be 4 fixings to the supporting structure (to be designed by others) to achieve the specified uplift capacity.
- Post must be at least as wide as the base plate.
- There must be at least 7 x the bolt diameter end distance in the timber (from the bottom of the timber to the first bolt) to achieve the above wind uplift capacities.

Technical Data

HEAVY DUTY T BLADE POST ANCHOR

LIMIT STATE COMPRESSION CAPACITY (DEAD LOAD) - HOT DIPPED GALVANISED

JOINT GROUP	Seasoned Timber Capacity (kN)				
	JD5	JD4	JD3	JD2	JD1
M12 Bolts x 2	8	9	12	13	15
M12 Bolts x 4	17	19	24	27	31
M16 Bolts x 2	15	17	21	24	28
M16 Bolts x 4	30	35	43	48	56
M20 Bolts x 2	24	27	34	37	44
M20 Bolts x 4	47	55	68	75	88
JOINT GROUP	Unseasoned Timber Capacity (kN)				
	J5	J4	J3	J2	J1
M12 Bolts x 2	6	7	9	10	12
M12 Bolts x 4	13	15	19	21	25
M16 Bolts x 2	12	13	17	19	22
M16 Bolts x 4	24	27	35	38	45
M20 Bolts x 2	18	21	27	29	35
M20 Bolts x 4	36	43	55	59	70

LIMIT STATE COMPRESSION CAPACITY (DEAD LOAD) - STAINLESS STEEL 304

JOINT GROUP	Seasoned Timber Capacity (kN)				
	JD5	JD4	JD3	JD2	JD1
M12 Bolts x 2	8	9	12	13	15
M12 Bolts x 4	17	19	24	27	31
M16 Bolts x 2	15	17	21	24	28
M16 Bolts x 4	30	35	43	48	56
M20 Bolts x 2	24	27	34	37	44
M20 Bolts x 4	46	55	68	75	88
JOINT GROUP	Unseasoned Timber Capacity (kN)				
	J5	J4	J3	J2	J1
M12 Bolts x 2	6	7	9	10	12
M12 Bolts x 4	13	15	19	21	25
M16 Bolts x 2	12	13	17	19	22
M16 Bolts x 4	24	27	35	38	45
M20 Bolts x 2	17	21	27	29	35
M20 Bolts x 4	34	43	55	59	70

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.
- 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.