

BOLT DOWN POST ANCHOR WITH BASE SADDLE (PSB)

FEATURES AND BENEFITS

ECONOMICAL: Inexpensive solution for fixing posts to concrete.

ADJUSTABLE: Knockout washer facilitates position adjustment after anchor holes are drilled.

VERSATILE: Range covers common post sizes.

SPECIFICATIONS

STEEL	G250
THICKNESS	2mm Stirrup / 3mm base
CORROSION RESISTANCE	Hot dip galvanised (300 g/m ²)
POST SIZES	90mm, 100mm, 115mm

FASTENER REQUIRED

POST STIRRUP TO TIMBER POST	M10 4.6 grade galvanised Hex Head Bolts M10 or M12 x 50mm 4.6 grade galvanised Coach Screws
POST BASE TO CONCRETE	M10 or M12 x 100mm galvanised Ramset™ AnkaScrew™

With knockout 3mm adjustable washer - to facilitate adjustment after bolt holes have been drilled. Used for locating posts onto new/existing concrete footing.

Timber post to be installed central to the Post Anchor. It is the responsibility of the Project Engineer / Architect / Building practitioner / Trade person and end user to ensure the product is verified to be "Fit for purpose" for each project.

Post Anchors must be installed plumb and on flat level concrete footing. Maximum post height 3m, N3 Wind category.

AS1720 & AS4055 COMPLIANT

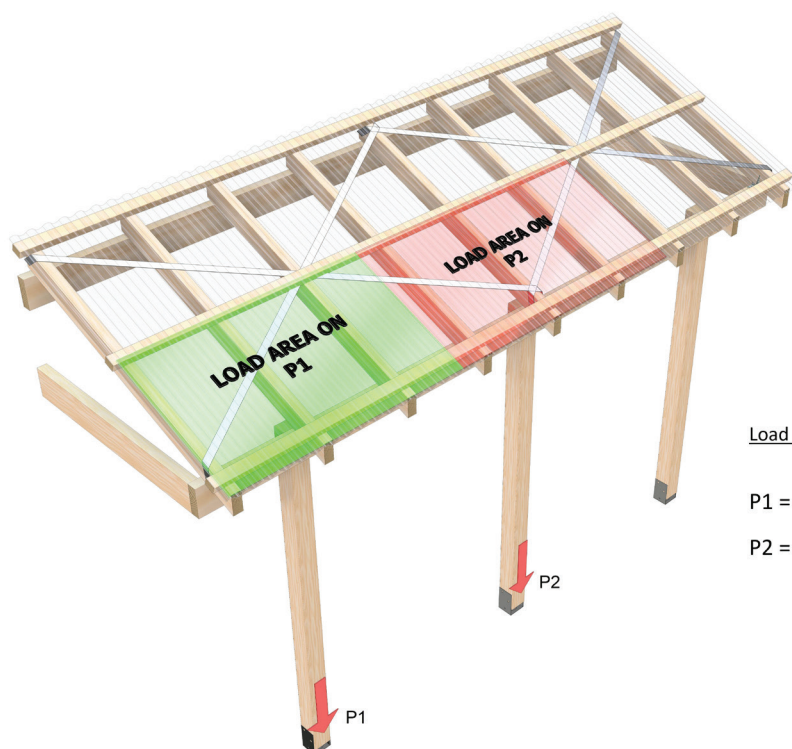
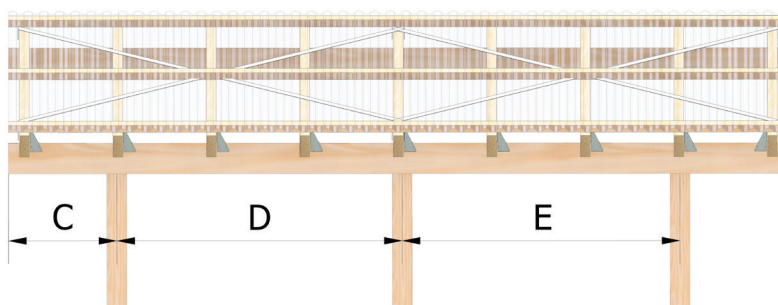
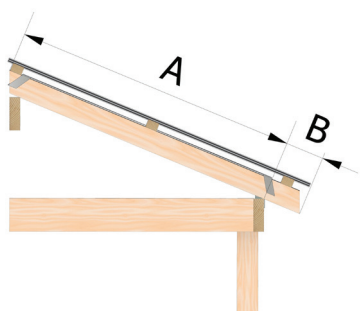


- Designed in accordance with Pryda testing and relevant Australian standards
- Engineering computations in accordance with the relevant Australian standards
- Not suitable for bushfire-prone or termite-prone areas



RANGE

PRODUCT CODE	MATERIAL	STEM HEIGHT (mm)	POST SIZE (mm)	BOLT HOLE SIZE	QTY
PSB90G/6	G250 Steel Hot Dip Galvanised (300 g/m ²)	N/A	90	M10	6
PSB90G/12/6				M12	
PSB100G/6			100	M10	
PSB100G/12/6				M12	
PSB115G/6			115	M10	
PSB90GB/6	G250 Steel Hot Dip Galvanised (300 g/m ²) + Black Powder Coating		90	M10	



Load Area Calculations for:

$$P1 = \left(\frac{A}{2} + B\right) \times \left(C + \frac{D}{2}\right)$$

$$P2 = \left(\frac{A}{2} + B\right) \times \left(\frac{D}{2} + E\right)$$

BOLT DOWN POST ANCHOR WITH BASE SADDLE DATA SHEET

RECOMMENDED LOAD AREA FOR ATTACHED OPEN VERANDAH FOR CLASS 1 DWELLING AND CLASS 10 STRUCTURES			
	LIGHT SHEET ROOF (10kg/m ²)	SHEET ROOF (40kg/m ²)	TILED ROOF (75kg/m ²)
WIND SPEED	Maximum Roof Area m ²		
N2	3.9	4.9	5.0
N3/C1	2.4	2.8	3.3
N4/C2	1.6	1.7	2.0

- Light Sheet Roof: Sheet roofing 0.50mm thick and battens.
- Sheet Roof: Steel sheet roofing 0.75mm thick and fibreboard ceiling lining.
- Tiled Roof: Terracotta or concrete tile and plasterboard ceiling.

NOTES:

- The design loads tabulated above require that:
 - The timber post must bear on the Post Anchor base and
 - All posts must be a minimum of 75 x 75mm section (3m max. height).
 - Reduce load area for 115 x 115mm Post on PSB115G, multiplier to be applied to tabulated areas x 0.83.
- Select design capacity according to the standard used for determining the design loads.
- Specified capacities are for vertical load transfer only.
- The base concrete and fixings to the concrete must provide sufficient resistance to the uplift forces and dead + live loads when embedding into concrete.
- Wind uplift capacities are based on the AS/NZS1170.2 wind code and AS4055:2012.
- Post Anchors should NOT be assumed to contribute towards lateral bracing/raking stability of a structure in decks or stumps in sub-structure, unless pre-approved by an Engineer.
- Post Anchors are not intended to be used for cantilever posts and balustrades without pre-approval from an Engineer.

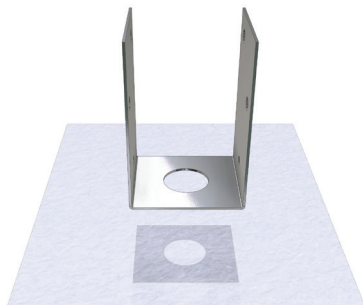
IMPORTANT:

READ THIS DATASHEET IN CONJUNCTION WITH PRYDA POST ANCHORS GUIDE AND REFER TO GENERAL NOTES AND LIMITATIONS.

INSTALLATION

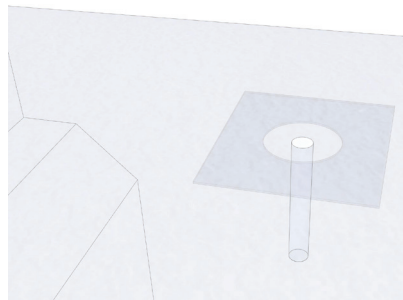
Note: These anchors can only fit a single fastener in the base. It is essential that the capacity of this fastener exceeds the expected uplift load. Fastener bolt selection connecting anchor to foundation to be determined by consulting project Engineer to suit design application and deemed fit for purpose. Consider the use of Ramset™ galvanised AnkaScrew™. Refer to bolt manufacturer guidelines for recommended pre-drill hole size and depth for selected fastener. The design Engineer should ensure the structural element is capable of supporting the intended design loads.

STEP 1



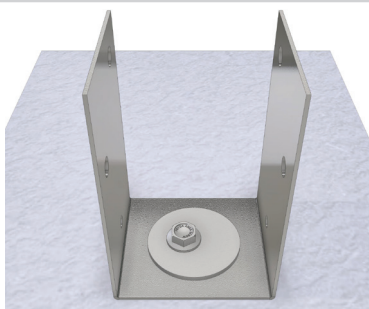
- Orientate anchor as required, measure and mark location of base holes using selected anchor base as stencil.
- Ensure adequate concrete edge distance set back.
- Concrete support assumed level.

STEP 2



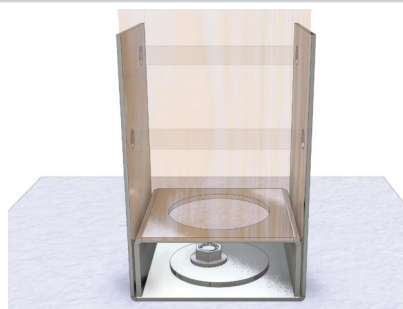
- Drill single hole at marked location to required depth for selected hold-down bolt. Hole can be offset from centre point within cut-out for adjustment purposes. Suggested minimum screw embedment depth 100mm or greater.

STEP 3



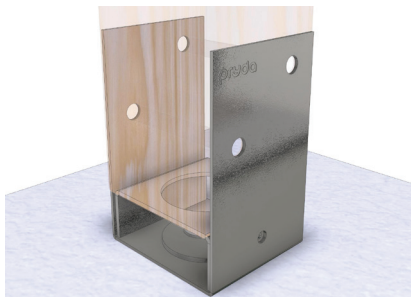
- Position Post Anchor base over hole location and install large washer over cut-out. Align washer bolt hole to drilled hole and insert selected Ramset™ galvanised AnkaScrew™ fastener. (AnkaScrew™ shown).
- Tighten fastener to pull down Post Anchor base firmly onto the concrete slab.

STEP 4



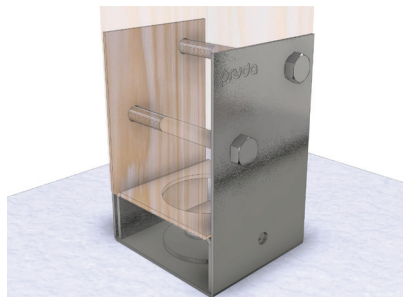
- Install insert over washer and lock into position by aligning side dimples to corresponding side holes.
- Place timber post upright into Post Anchor stirrup for direct bearing on insert.
- Ensure to locate post central to support base and vertically plumb.

STEP 5



- Drill through post using saddle holes to mark location. Ensure drill through holes are horizontally levelled and perpendicular to saddle.
- For coach screws, drill pilot holes to the length of selected screws.

STEP 6

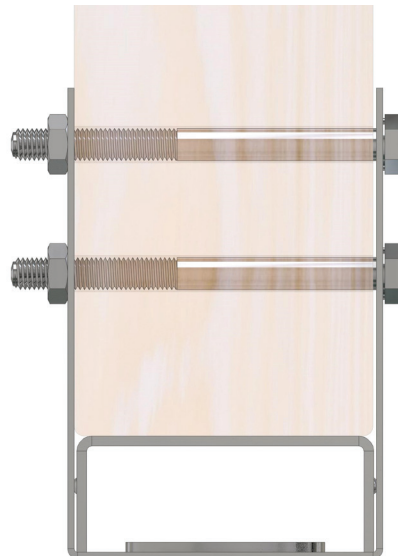


- Insert either 2 x Hex Head Bolts or 4 x Coach Screws and securely fasten.

INSTALLATION TIPS

FOUNDATION SLOPE

- It is recommended to slope foundations away from the base of the Post Anchor all around.
- Avoid water pooling and buildup of debris around anchor base and stem.
- Not suitable for foundation that is at the same level as natural ground unless deemed fit for purpose and approved by consulting design Engineer.
- Routinely clear away debris or any obstructions at anchor base on a regular basis.
- Tiling or paving around anchor is not recommended as this may result in a recess space around the anchor that may facilitate water pooling and debris buildup.



BOLT LENGTH

- When using Hex Head Bolts for fastening your post, it is recommended to use a length 20mm longer than post side or have a minimum of 2 x thread pitch extend beyond the outward surface of the hex nut.
- Account for the thickness of the saddle, washer(s) and allow sufficient thread of the bolt to pass the hex nut.
- For example, a 110mm Hex Head Bolt would suit a 90mm Post Anchor as shown for Half-Stirrup, Full-Stirrup and Centre-Fix.

POST FASTENERS

- Buildex offer a 40mm & 50mm Construction Screw designed specifically for fixing Post Anchors.
- The enlarged shank is designed for M10 holes and the self drilling point requires no pre-drilling.
- Product Information:
18G x 40mm, 20 pack – X998278
18G x 50mm, 20 pack – X998292



CONCRETE FASTENERS

- For fixing to existing concrete, Pryda recommend the use of M10 Hex Head Ramset™ WERCS™ AnkaScrew™ AS10100WGM50 screw in anchor. Having a 100mm minimum length or longer.
- Alternatively, Ramset™ M10 galvanised Dynabolts™ can also be considered provided the connection is deemed fit for purpose by the project consulting Engineer.
- Product Code – DP10100GH or DP12100GH
- For detailed instructions on installation and design properties, see the Ramset™ website: www.ramset.com.au