

# ADJUSTABLE POST ANCHOR (PS)

## FEATURES AND BENEFITS

**EASY:** No checking of post size is required.

**VERSATILE:** Can be used with a range of post sizes up to 150mm.

**STRONG:** Hot dip galvanised coating after manufacture and made from 4mm steel.

## SPECIFICATIONS

STEEL	G250
THICKNESS	4mm
CORROSION RESISTANCE	Hot dip galvanised (500 g/m <sup>2</sup> )
STEM SIZE	85, 160
POST SIZE	90 - 150

## FASTENERS REQUIRED

POST STIRRUP TO TIMBER POST	M10 4.6 grade galvanised hex head bolts
POST BASE TO CONCRETE	M10 galvanised Ramset Ankascrew

Convenient and fully adjustable for any practical post size. No checking of the post is required. Recommended post size 90mm-150mm.

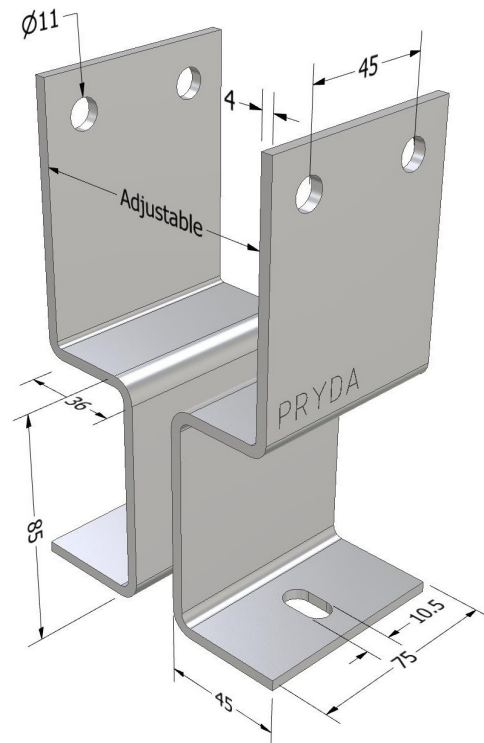
Timber post to be installed central to the post anchor. It is the responsibility of the Project Engineer / Architect / Building practitioner / Trade person and end user to ensure the product is verified to be "fit for purpose" for each project.

Post anchors must be installed plumb and on flat level ground. Maximum post height 3m, N3 Wind category.



### AS1684, AS1720 & AS4055 COMPLIANT

- Designed in accordance with Pryda testing and relevant Australian standards
- Engineering computations in accordance with the relevant Australian standards



## RANGE

PRODUCT CODE	MATERIAL	STEM SIZE (MM)	POST SIZE (MM)	BOLT HOLE SIZE	QUANTITY
PS85	G250 Steel Hot Dip Galvanised (500 g/m <sup>2</sup> )	85	90 - 150	M10	10
PS160		160	90 - 150	M10	10

## DESIGN CAPACITIES - STEEL STRENGTH ONLY

Ultimate Limit State Design capacities ( $\Phi_{Nc}$ ,  $\Phi_{Nt}$ ) for Pryda Standard Post:

PRODUCT CODE	AXIAL COMPRESSION $\Phi_{NC}$ (KN)	AXIAL TENSION $\Phi_{NT}$ (KN)
PS85	24	8
PS160	12	

## DESIGN CAPACITIES - WIND UPLIFT

Limit State Design capacities ( $\Phi_{Nj}$ ) for Pryda Standard Post Anchors resisting wind uplift loads are as follows:

ADJUSTABLE POST ANCHOR		UPLIFT CAPACITIES FOR VARYING JOINT GROUP						
FIXINGS	POST (MM)	J4	J3	J2	JD5	JD4	JD3	JD2
4 x M10 x 50mm coach screws or 2 x M10 Bolts.	90	4.6	7.4	8	5.8	8	8	8

### 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 90 x 90mm section.
- Select design capacity according to the standard used for determining the design loads.
- Specified capacities are for concentric vertical load transfer only. As a guide, limit the axial compression load to approximately 50% of the design capacity for eccentrically loaded conditions.
- 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/NZS 1170.2 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 must be laterally restrained at top.
- Post Anchors are not intended to be used for cantilever posts and balustrades without pre-approval from an Engineer.

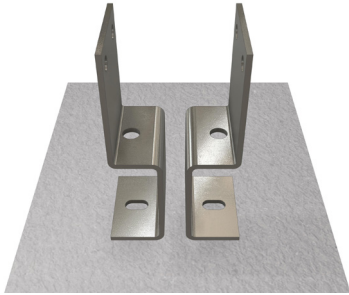
### IMPORTANT:

READ THIS DATASHEET IN CONJUNCTION WITH PRYDA POST ANCHORS GUIDE AND REFER TO GENERAL NOTES AND LIMITATIONS FOUND ON PAGES 4 TO 7.

## INSTALLATION

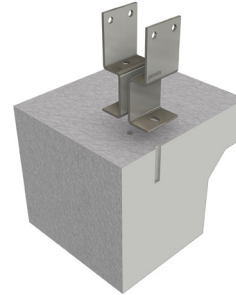
It is essential that the capacity of this fastener exceeds the expected uplift load. Fastener bolt selection connecting anchor to foundation to be determined by consulting project Engineer to suit design application and deem fit for purpose. Consider the use of Ramset Galvanised AnkaScrew. Refer to bolt 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 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 two holes at marked location to required depth for selected hold-down bolt. Refer to bolt manufacturer guidelines for recommended pre-drill hole size and depth. Suggested minimum screw embedment depth 100mm (Section detail shown above).

### STEP 3



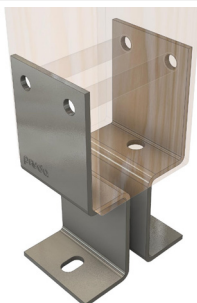
- Position Post Anchor and insert (either M10 or M12) Ramset galvanized AnkaScrew fastener.
- Tighten fastener to pull down Post Anchor base firmly onto the concrete slab.

### STEP 4



- Place timber post upright into Post Anchor stirrup for direct bearing.
- 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.

### STEP 6



- Insert bolt through saddle and passing through timber post. A minimum of 2x thread pitch should extend beyond the outward surface of the nut.
- Install nut and securely fasten.

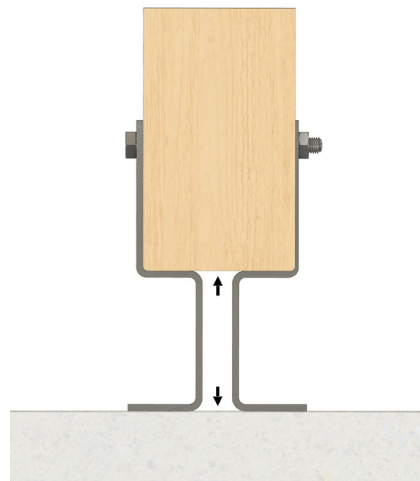
## INSTALLATION TIPS

### 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.

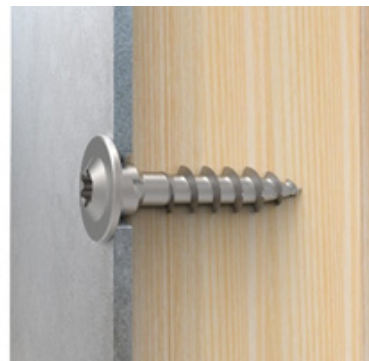
### TERMITE & BUSHFIRE MANAGEMENT

- To meet the requirements of AS 3660.1-2014, a minimum of 75mm clearance between the underside of the Post Anchor saddle and the ground surface or concrete is recommended.
- Routinely clear away debris or any obstructions at anchor base on a regular basis.



### POST FASTENERS

- Buildex offer a 40 & 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](http://www.ramset.com.au)



**LOOKING FOR MORE DETAILS AND OTHER ANCHORS IN OUR RANGE?**

SEE OUR POST ANCHOR DESIGN GUIDE AVAILABLE AT [PRYDA.COM.AU](http://PRYDA.COM.AU)