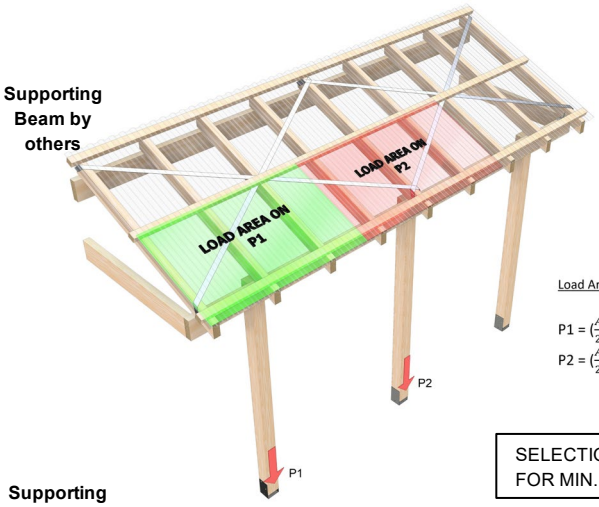
NZ PRYDA POST ANCHOR AND BEARER BRACKETS GUIDE

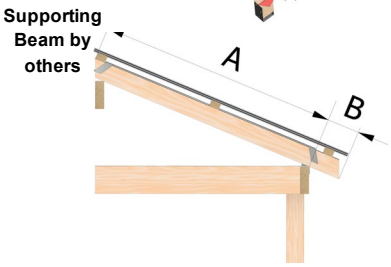


Load Area Calculations for:

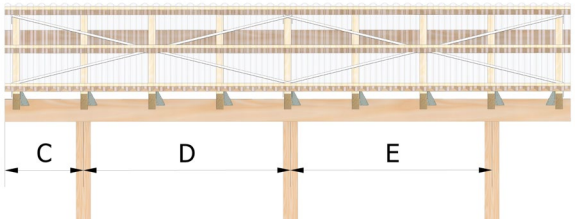
$P1 = (\frac{A}{2} + B) \times (C + \frac{D}{2})$

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

SELECTION TABLES ARE FOR MIN. M10 BOLT FIX



P1 / P2



P1 P2

Pryda post anchor selection guide using bolt fix only.

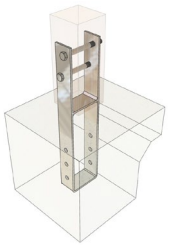
LOAD SELECTION	POST ANCHOR SELECTION GUIDE			
	PHS130/6	PS160/6	PS85/6	
	PSFS130/6	PSCF130/6	PSBM	PSBD
	PSQ			

PHS
Half Stirrup

PS
Adjustable

PSFS
Full Stirrup

PSCF
Centre Fix Stirrup



PSQ
High wind

PSBM
Bolt Down

PSBD
Bolt Down with tabs

Roof Type	Wind Zone	Capacity of post and beam connections (kN) for area of roof supported						
		1 m^2	2m^2	4m^2	6 m^2	8 m^2	10 m^2	12 m^2
Light	Extra high	2.5	4.9	9.6	14.4	19.4	24	28.8
	Very high	2	4	7.9	11.9	15.8	19.8	23.8
	High	1.5	2.9	5.9	8.8	11.8	14.7	17.7
	Medium	1	1.9	3.8	5.8	7.7	9.6	11.5
	Light	0.7	1.3	2.6	3.9	5.2	6.5	7.8
Heavy	Extra high	2	3.9	7.9	11.8	15.8	19.7	23.5
	Very high	1.6	3.2	6.5	9.7	13	16.2	19.4
	High	1.1	2.2	4.4	6.7	8.9	11.1	13.3
	Medium and Light	No securement for uplift required						

Table 1 : Connections to posts and beams to resist uplift.

Notes:

1) Refer to NZS 3604:2011 for specific roof type/weights and wind zone classification.
2) The design loads tabulated above require that:
   (a) the timber post must bear on the Post Anchor base and
   (b) all posts must be a minimum of 90 x 90 mm section.
3) Specified capacities are for concentric vertical load transfer only.
4) The base concrete and fixings to the concrete must provide sufficient resistance to the uplift forces and dead + live loads when embedding into concrete.
5) Wind uplift capacities are based on the AS/NZS 1170.2.
6) 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.
7) Post must be laterally restrained at top.
8) Post Anchors are not intended to be used for cantilever posts and balustrades without pre-approval from an Engineer.

Roof Type	Wind Zone	Volume of footing concrete (m^3) for area of roof supported						
		1 m^2	2m^2	4m^2	6 m^2	8 m^2	10 m^2	12 m^2
Light	Extra high	0.09	0.16	0.32	0.49	0.61	0.79	1.00
	Very high	0.07	0.13	0.26	0.4	0.5	0.65	0.80
	High	0.05	0.1	0.2	0.3	0.4	0.5	0.60
	Medium	0.03	0.05	0.1	0.15	0.2	0.25	0.30
	Light	0.02	0.03	0.07	0.1	0.15	0.15	0.20
Heavy	Extra high	0.05	0.09	0.16	0.25	0.32	0.39	0.49
	Very high	0.04	0.07	0.13	0.2	0.26	0.32	0.40
	High	0.03	0.05	0.1	0.15	0.2	0.25	0.30
	Medium and Light	No securement for uplift required						

Table 2 : Minumum concrete footing volume. Minimum concrete strength 17 MPa