

CHART: POST CALCULATION

SPECIFYING POSTS

To use the following tables you need to know the Tributary Area (Roof Area) on the post, the Tributary Edge Length (L_e) and the height of the post. For Tributary Area and Tributary Edge refer to page 19.

POST LOADS

Wind speeds taken from NZS 3604; 2011, are ultimate limit state wind speeds

- L = Low wind speed
- M = Medium wind speed
- H = High wind speed
- VH = Very high wind speed
- EH = Extra high wind speed

Wind Zone	ULS (capacity)					SLS (deflection)				
	L	M	H	VH	EH	L	M	H	VH	EH
Factored design wind speed at building (m/s)	32	37	44	50	55	27	31	37	42	46
Drag pressure on beam (kPa) (for $C_{rig} = 1.45$)	0.74	0.99	1.40	1.81	2.18	0.54	0.71	1.01	1.30	1.55
Drag pressure on roof (kPa) (for $C_{rig} = 0.04$)	0.02	0.03	0.04	0.05	0.06	0.01	0.02	0.03	0.04	0.04