



Selection Table - Techno Metal Post

Techno Metal Post Model	Project Type	Maximum compressive bearing capacity ^{1 2 3 4}				Lateral bearing capacity ⁵		Factored bending resistance	
		SLS		ULS		SLS		ULS	
		(lbs)	(kN)	(lb)	(kN)	(lb)	(kN)	(lb·ft)	(kN·m)
P1 (O.D. 1.9 in / 48.3mm)	Light residential (deck, patio, etc.)	6 800	30,2	9 520	42,3	225	1,0	1 010	1,4
P2 (O.D. 2.4 in / 60.3mm)	Medium residential and light commercial (carport, sunrooms, single storey residential addition, pedestrian bridge, etc.)	9 600	42,7	13 440	59,8	450	2,0	1 785	2,4
P3 (O.D. 3.5 in / 88.9mm)	Heavy Residential, Light to Medium Commercial and Industrial (cottage, camp, mobile home, two storey residential addition, garden shed, supporting column, underpinning, pedestrian bridge etc.)	33 750	150,1	47 250	210,2	2 250	10,0	6 454	8,8
P4 (O.D. 4.0 in / 101.6mm)	Heavy Residential, Light to Medium Commercial and Industrial (cottage, camp, mobile home, supporting column, underpinning, pedestrian bridge etc.)	45 000	200,2	63 000	280,2	2 700	12,0	9 411	12,8
P3-HD (O.D. 3.5 in / 88.9mm)	Heavy Residential, Light to Heavy Commercial and Industrial (supporting column, underpinning, etc.)	45 000	200,2	63 000	280,2	2 250	10,0	9 057	12,3
P4-HD (O.D. 4.0 in / 101.6mm)	Heavy Residential, Light to Heavy Commercial and Industrial (supporting column, underpinning etc.)	50 625	225,2	70 875	315,3	2 700	12,0	13 394	18,2
P5 (O.D. 5.6 in / 141.3mm)	Heavy Residential, Light to Heavy Commercial and Industrial (cottage, camp, mobile home, supporting column, sign, lamp post, underpinning, pedestrian bridge, etc.)	50 625	225,2	70 875	315,3	4 500	20,0	21 316	28,9
P6 (O.D. 6.6 in / 168.3mm)	Heavy Residential, Light to Heavy Commercial and Industrial (cottage, camp, mobile home, supporting column, sign, lamp post, underpinning, pedestrian bridge, etc.)	50 625	225,2	70 875	315,3	6 750	30,0	33 876	45,9

Notes :

1. The maximum tensile load capacity can be obtained, conservatively, by halving the values of the bearing capacity in compression shown in the selection table.
2. The maximum compressive load (SLS) shown in the selection table limit the settlements to 12 mm (1/2 inch).
3. The maximum compressive bearing capacity (SLS) is determined by the maximum torque allowable by the installation equipment used (see specifications of installation equipment)
4. When the pile is laterally unsupported (soil very loose / soft, liquefiable soils, water and air), the structural strength of the pile must be approved by the technical department of Techno Metal Post.
5. The values of lateral capacity are average values and can be modified, more or less, depending on the characteristics of the existing soil.

Comments :

- For any questions, please contact the technical department of Techno Metal Post.
- Larger Techno Metal Post can be used for applications requiring a lateral or bending resistance higher than shown in the selection table.