



Selection Table - Techno Metal Post

Techno Metal Post Model	Project Type	Maximum compressive bearing capacity (working load) ^{1 2 3 4}	Lateral bearing capacity (working load) ⁵	Factored bending resistance (ultimate load)
		(lbs)	(lbs)	(ft-lbs)
P1 (O.D. 1.9 in)	Light residential (deck, patio, etc.)	6800	225	1010
P2 (O.D. 2.4 in)	Medium residential and light commercial (carport, sunrooms, single storey residential addition, pedestrian bridge, etc.)	9600	450	1785
P3 (O.D. 3.5 in)	Heavy Residential, Light to Medium Commercial and Industrial (cottage, camp, mobile home, two storey residential addition, garden shed, supporting column, underpinning, pedestrian bridge etc.)	33750	2250	6454
P4 (O.D. 4.0 in)	Heavy Residential, Light to Medium Commercial and Industrial (cottage, camp, mobile home, supporting column, underpinning, pedestrian bridge etc.)	45000	2700	9411
P3 sch 80 (O.D. 3.5 in)	Heavy Residential, Light to Heavy Commercial and Industrial (supporting column, underpinning, etc.)	50625	2250	9057
P4 sch 80 (O.D. 4.0 in)	Heavy Residential, Light to Heavy Commercial and Industrial (supporting column, underpinning etc.)	50625	2700	13394
P5 (O.D. 5.6 in)	Heavy Residential, Light to Heavy Commercial and Industrial (cottage, camp, mobile home, supporting column, sign, lamp post, underpinning, pedestrian bridge, etc.)	50625	4500	21316
P6 (O.D. 6.6 in)	Heavy Residential, Light to Heavy Commercial and Industrial (cottage, camp, mobile home, supporting column, sign, lamp post, underpinning, pedestrian bridge, etc.)	50625	6750	33876

Notes :

1. The maximum compressive bearing capacity (working load) includes a safety factor greater than 2.
2. The maximum compressive bearing capacity (working load) is determined by the maximum torque allowable by the installation equipment used.
3. 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.
4. The maximum tensile load capacity can be obtained by halving the values of the bearing capacity in compression shown in the selection table.
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.