



FOOTING SPECIFICATIONS

Use in conjunction with MiTek Adjustable Support Posts (JP series) or MiTek Adjustable Support Columns (BLACKJACK/REDJACK series).

20 MPa concrete	Table 1A. Concrete Footing Recommendations, 20 MPa Concrete Strength							
	Soil Bearing Capacity kPa (psf)	Max. Footing Capacity				Min. Footing Dimensions b x b x h	Rebar Specifications Qty & Size Spacing, s	
		(Working Stress Design)		Factored Load, P _f (Limit States Design)				
		kN	(lb)	kN	(lb)			
100 (2,090)	37.1	(8,350)	53.8	(12,110)	24" x 24" x 9"	2 - 10M	18" E/W	
	58.0	(13,050)	84.1	(18,930)	30" x 30" x 9"	3 - 10M 2 - 15M	12" E/W 19.5" E/W	
	83.6	(18,800)	121.2	(27,260)	36" x 36" x 9"	4 - 10M 3 - 15M	10" E/W 15" E/W	
	113.8	(25,580)	165.0	(37,100)	42" x 42" x 9"	5 - 10M 3 - 15M	9" E/W 18" E/W	
	148.6	(33,420)	215.5	(48,450)	48" x 48" x 10" 48" x 48" x 11"	7 - 10M 4 - 15M	7" E/W 14" E/W	
	188.1	(42,290)	272.7	(61,320)	54" x 54" x 12"	9 - 10M 5 - 15M	6" E/W 12" E/W	

Notes:

1. Footing design is in accordance with CAN/CSA A23.3, and meets or exceeds the prescriptive requirements of current NBCC Part 9 and its provincial counterparts.
2. Soil bearing capacity shall be verified by a qualified soil specialist.
3. Concrete shall be normal Portland cement, Type 10 or Type 50 as required, slump +/- 75 mm (3"), entrained air 4-7%, maximum aggregate 20 mm (3/4") diameter, minimum strength 20 MPa (2,900 psi) at 28 days.
4. Rebar shall be Grade 400, tied at all intersections, and placed in conformance with Figure 1.
5. Column shall be installed at the centre of the footing; eccentric loading reduces the footing capacity. Design is based on MiTek Adjustable Support Post/Column steel base plate sizes 3.5" x 6", 4.5" x 6" and 3.5" x 5.25".
6. Refer to Table 1A for footing size (b x b x h) and rebar spacing(s). Footing height (h) indicates the depth of footing below the column base plate. Rebar edge distance (e) and depth of concrete below rebar (c) shall be no less than 3".

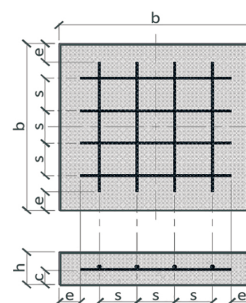
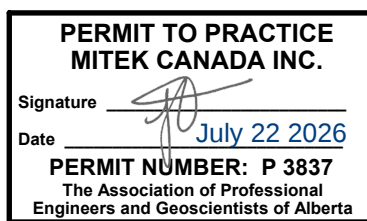
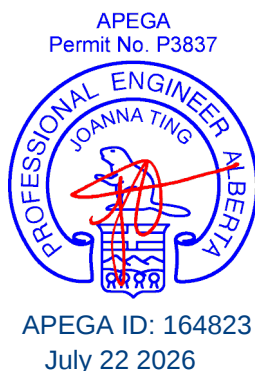


Figure 1
Rebar layout



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