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REVISIONS

DATE	DESCRIPTION	REV.
26/06/2013	Revised Load capacity.	1

Client :

Client address :

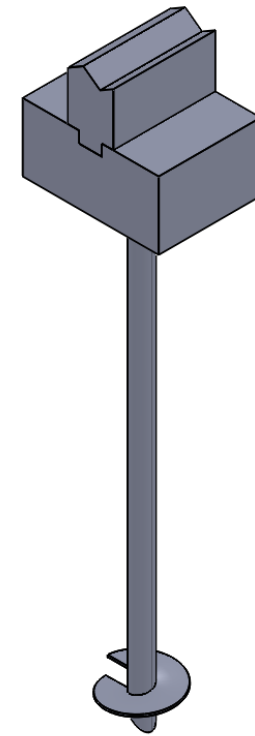
Project :

Drawing :
**General plan workshop
Techno Metal Post
Model P3 to P6
(Deep foundation)**

Approved by :

Date : 2011-10-26
Scale : N/A

Drawing no: P1-TO-P6-R1-A
Page number : SHEET 1 OF 1



Concrete foundation
(See sketch of rebar
before construction)

Supporting plate
Standard : CSA G40.21 - Steel
(see note #6)

Steel shaft
Standard : ASTM A500 grade C - Circular steel section
(see note #6)

1/2" [12.7mm] thick factory-welded helix
for models P3, P4, P5 and P6
Standard : CSA G40.21 - Steel
(see note #6)

Under depth frost
penetration.
Actual pile length to be
determined by field
conditions and desired
loading capacity.
(see note #5)

8" to 24"
[203 to 610mm]
Helix diameter varies
according to soil
conditions and desired
loading capacity.

Model	Diameter		Thickness		Load Capacity							
					Maximum compressive bearing capacity ^{1,3}				Lateral bearing capacity ^{2,4}		Factored bending resistance	
					SLS		ULS		SLS		ULS	
	in	mm	in	mm	(lbs)	(kN)	(lbs)	(kN)	(lbs)	(kN)	(lbs-ft)	(kN.m)
P3	3.5	88.9	0.216	5.5	33,750	150.1	47,250	210.2	2,250	10.0	6,454	8.8
P3 HD	3.5	88.9	0.300	7.6	50,625	225.2	70,875	315.3	2,250	10.0	9,057	12.3
P4	4.0	101.6	0.226	5.7	45,000	200.2	63,000	280.2	2,700	12.0	9,411	12.8
P4 HD	4.0	101.6	0.313	8.0	50,625	225.2	70,875	315.3	2,700	12.0	13,394	18.2
P5	5.563	141.3	0.258	6.6	50,625	225.2	70,875	315.3	4,500	20.0	21,316	28.9
P6	6.625	168.3	0.280	7.1	50,625	225.2	70,875	315.3	6,750	30.0	33,876	45.9

- NOTES:
- The maximum tensile load capacity can be obtained, conservatively, by halving the values of the bearing capacity in compression shown in the selection table.
 - The lateral capacity depends on the density of soil (to validate consult technical department of Techno Metal Post.)
 - 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.
 - The values of lateral capacity are average values and can be modified, more or less, depending on the characteristics of the existing soil.
 - If required, piles may be field welded with extensions to achieve greater loading capacities in poor soil conditions.
 - If required, the helical pile and the supporting plate can be galvanized in compliance with standard CAN / CSA G-164-M92 610g / m²