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CANADA  
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REVISIONS

DATE	DESCRIPTION	REV.

Client :

Client address :

Project :

Drawing : **Techno Metal Post  
Model P4 HD  
(Deep foundation)**

Approved by :

Date : 2011-10-31      Scale : N/A

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**Supporting plate**  
Standard : CSA G40.21 - Steel

**Steel shaft**  
Model P4 HD : 4" x 0.313" [ 101.6mm x 8.0mm ]  
Standard : ASTM A500 grade C - Circular steel section

**1/2" [12.7mm] tick factory-welded helix**  
Standard : CSA G40.21 - Steel

Actual pile length to be determined by field conditions and desired loading capacity.

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

Load Capacity							
Maximum compressive bearing capacity <sup>1,3</sup>				Lateral bearing capacity <sup>2,4</sup>		Factored bending resistance	
SLS		ULS		SLS		ULS	
(lbs)	(kN)	(lbs)	(kN)	(lbs)	(kN)	(lbs.ft)	(kN.m)
50,625	225.2	70,875	315.3	2,700	12.0	13,394	18.2

- 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 / m<sup>2</sup>

