

1700, Setlakwe Street  
Thefford Mines (QC) G6G 8B2  
CANADA  
www.technometalpost.com

**CONFIDENTIAL**

THE INFORMATIONS CONTAINED  
IN THIS DRAWING IS THE SOLE  
PROPERTY OF TECHNO PIEUX INC.  
ANY REPRODUCTION IN PART OR  
AS A WHOLE WITHOUT THE WRITTEN  
PERMISSION OF TECHNO METAL POST INC.  
IS PROHIBITED

REVISIONS

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

Client :

Client address :

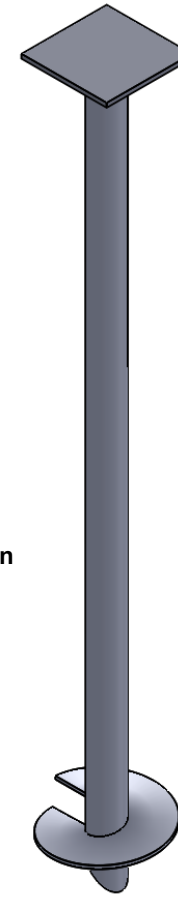
Project :

Drawing : **Techno Metal Post Model P3 (Deep foundation)**

Approved by :

Date : 2011-10-31  
Scale : N/A

Drawing no: P3-R1-A  
Page number : SHEET 1 OF 1



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

**Steel shaft**  
Model P3 : 3.5" x 0.216" [ 88.9mm x 5.5mm ]  
Standard : ASTM A500 grade C - Circular steel section  
(see note #6)

**1/2" [ 12.7mm ] thick factory- welded helix**  
Standard : CSA G40.21 - Steel  
(see note #6)

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.

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)
33,750	150.1	47,250	210.2	2,250	10.0	6,454	8.8

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>