Existing soil

Structural beam or column (by others)

Supporting plate
Standard: ASTM A36- Steel
(see note #6)

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

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

Exclusive polyethylene sleeve (if required)
Available for models P1, P2, P3, P4 and P6

3/8" (9.5mm) thick factory-welded helix for models P1 and P2
1/2" (12.7mm) for models P3, P4, P5 and P6
Standard: ASTM A36- Steel
(see note #6)

Load Capacity

<table>
<thead>
<tr>
<th>Model</th>
<th>Diameter</th>
<th>Thickness</th>
<th>Maximum compressive bearing capacity</th>
<th>Lateral bearing capacity</th>
<th>Factored bending resistance</th>
</tr>
</thead>
<tbody>
<tr>
<td>P1</td>
<td>1.9</td>
<td>0.145</td>
<td>6,800 (lbs)</td>
<td>225 (lbs)</td>
<td>1,010 (lbs-ft)</td>
</tr>
<tr>
<td>P2</td>
<td>2.375</td>
<td>0.154</td>
<td>9,600 (lbs)</td>
<td>450 (lbs)</td>
<td>1,785 (lbs-ft)</td>
</tr>
<tr>
<td>P3</td>
<td>3.5</td>
<td>0.216</td>
<td>33,750 (lbs)</td>
<td>2,250 (lbs)</td>
<td>6,454 (lbs-ft)</td>
</tr>
<tr>
<td>P3 HD</td>
<td>3.5</td>
<td>0.300</td>
<td>50,625 (lbs)</td>
<td>2,250 (lbs)</td>
<td>9,057 (lbs-ft)</td>
</tr>
<tr>
<td>P4</td>
<td>4</td>
<td>0.226</td>
<td>45,000 (lbs)</td>
<td>2,700 (lbs)</td>
<td>9,411 (lbs-ft)</td>
</tr>
<tr>
<td>P4 HD</td>
<td>4</td>
<td>0.313</td>
<td>50,625 (lbs)</td>
<td>2,700 (lbs)</td>
<td>13,394 (lbs-ft)</td>
</tr>
<tr>
<td>P5</td>
<td>5.563</td>
<td>0.258</td>
<td>50,625 (lbs)</td>
<td>4,500 (lbs)</td>
<td>21,316 (lbs-ft)</td>
</tr>
<tr>
<td>P6</td>
<td>6.625</td>
<td>0.280</td>
<td>50,625 (lbs)</td>
<td>6,750 (lbs)</td>
<td>33,876 (lbs-ft)</td>
</tr>
</tbody>
</table>

Notes:
1. The maximum tensile load capacity can be obtained, conservatively, by taking the value of the bearing capacity in compression shown in the selection table.
2. The lateral capacity depends on the density of soil (to validate consult technical department of Techno Metal Post.)
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 values of lateral capacity are average values and can be modified, more or less, depending on the characteristics of the existing soil.
5. If required, piles may be field welded with extensions to achieve greater loading capacities in poor soil conditions.
6. If required, the helical pile and the supporting plate can be galvanized in compliance with standard ASTM A123.

General plan workshop
Techno Metal Post
Model P1 to P6
(Above ground structure)

Approved by:

Date: 2011-11-04
Scale: N/A
Drawing no: P1-TO-P6-G-R0-A-USA
Page number: SHEET 1 OF 1