



### NORMATIVE INFORMATION

This Postech pile has been the subject of calculations and/or physical tests. The aim of this work is to validate the mechanical resistance of the part. In accordance with CCMC technical guide TG-316216.01-15, referring to the National Building Code (NBC), and in compliance with the ISO-9001 quality management system.

**MANUFACTURER:**  
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### PRODUCT SPECIFICATIONS

#### Physical and Chemical Properties

<b>STEEL GRADE</b>	Conform to CAN/CSA G40.21-350W and/or ASTM A500 class C
<b>WELDING</b>	Conform to CSA W59
<b>HOT DIP GALVANIZATION</b>	Conform to ASTM-A123M
<b>THERMAL INSULATION</b>	Polyurethane foam injected inside the pile shaft

#### Standard Dimensional Specifications

<b>PILE SHAFT</b>	HSS 2 7/8" O.D. x 0.203" wall tk. round shaft (73 mm O.D. x 5.2 mm tk.)
<b>STANDARD LENGTHS</b>	Available in standard lengths of 7' & 10'
<b>HELIX DIAMETERS</b>	Standard diameters of 10", 12", 14" & 16" (254 mm to 406 mm)
<b>HELIX THICKNESSES</b>	5/16" (8 mm) for diameters of 10" 3/8" (9.5 mm) for diameters of 12" to 14" 1/2" (12.7 mm) for diameters of 16"
<b>BOLT CONNECTION HOLES</b>	2x through bolt holes for 3/4" (19 mm) diam. bolts & with a spacing of 3" (76 mm)

#### Structural Capacities

#### ULS <sup>(1)</sup>

#### SLS <sup>(1)</sup>

<b>MAX. COMPRESSION CAPACITY <sup>(2)</sup></b>	245 kN (55000 lb)	180 kN (40400 lb)
<b>MAX. TENSION CAPACITY <sup>(2)</sup></b>	165 kN (37000 lb)	120 kN (26900 lb)
<b>BENDING CAPACITY</b>	4,5 kN.m (3300 lb.ft)	3,3 kN.m (2400 lb.ft)
<b>MAXIMUM INSTALLATION TORQUE</b>	7320 N.m (5400 lb.ft)	-

#### COMPRESSIVE TORQUE CORRELATION FACTOR (K<sub>t</sub>)

8 ft-1 (26.25 m-1)

(1): ULS = Ultimate Limit State; SLS = Service Limit State.

(2): The specified capacities are only applicable to the steel assembly where the pile shaft is laterally supported. In all cases, the mechanical capacity of the extension must be validated by a licensed engineer, and with considerations for column buckling if installed in liquifying soils, peats or bogs

### DESIGN INFORMATION

In all cases, applicable loads must be validated by a professional licensed to practice under the appropriate provincial or territorial legislation.

#### BEARING CAPACITY

Postech products are designed to bear compressive, tension and lateral loads. The design of the shaft and the size of the blade depend on the load and on the bearing capacity of the soil. The monitoring of the applied torque on site allows for the confirmation of the allowable bearing capacity (SLS) of the soil. All capacities listed on this data sheet must be applied at the pile head less than 0.3 m (1 ft) above ground.

#### THERMAL INSULATION

Postech products are insulated by a process of injecting polyurethane foam in the piles shaft. The insulation system ensures that the inside of the pile is maintained at a temperature that will prevent ice or frost build-up at the base of the pile; providing optimal protection against frost heave.

### ADVANTAGES

- Product and installation are supplied.
- Can be installed in all climates, weather or ground conditions.
- Allows the adjustment of pile heads.
- The most reliable & economical solution available.
- Reusable and recyclable, environmentally friendly.
- Can be installed under an existing structure.
- No waiting time, you can build as soon as the installation is completed.

