

TECHNICAL DATA SHEET

EX412 PILE EXTENSIONS



PRODUCT SPECIFICATIONS		
Physical and Chemical Properties		
STEEL GRADE	Conform to CAN/CSA G40.21-350W and/or ASTM A500 class C	
WELDING	Conform to CSA W59	
HOT DIP GALVANIZATION	Conform to ASTM-A123M	
RECOMMENDED HARDWARE	ASTM A325 or SAE J429 Grade 5 bolts	
Standard Dimensional Specifications		
SHAFT PROPERTIES	HSS 4 1/2" O.D. x 0.237" wall tk. round shaft	
COUPLER PROPERTIES	HSS 5" O.D. x 0.188" wall tk. round shaft	
STANDARD LENGTHS	Available in standard lengths of 5' & 10'	
COMPATIBILITY	Compatible with P412 piles	
PILE CONNECTION	Must be connected by two 3/4" diameter structural bolts	
Structural Capacities		ULS ⁽¹⁾
MAX. COMPRESSION CAPACITY ⁽²⁾	535 kN (120200 lb)	SLS ⁽¹⁾
MAX. TENSION CAPACITY ⁽²⁾	170 kN (38200 lb)	395 kN (88700 lb)
BENDING CAPACITY	19,9 kN.m (14600 lb.ft)	125 kN (28100 lb)
MAXIMUM INSTALLATION TORQUE	20410 N.m (15060 lb.ft)	14,7 kN.m (10800 lb.ft)
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(1): ULS = Ultimate Limit State; SLS = Service Limit State.

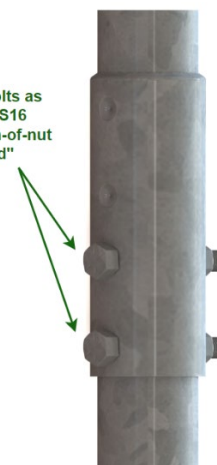
(2): The specified capacities are only applicable to the steel assembly where the extension is supported laterally. In all cases, the mechanical capacity of the extension must be validated by a licensed engineer, and with considerations for column buckling if installed in liquifying soils, peats or bogs

DESIGN INFORMATION

BEARING CAPACITY

Postech products are designed to bear compressive and tension loads. The design of the shaft depends 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 bearing capacity 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.

Tighten bolts as per CSA S16 27.3.2 "Turn-of-nut method"



Recommended Connection

NORMATIVE INFORMATION

This Postech pile accessory 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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ADVANTAGES

- Product and installation are simplified.
- 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.

