

NYC Buildings Department 280 Broadway, New York, NY 10007

Rick D. Chandler, PE, Commissioner



BUILDINGS BULLETIN 2014-020 OTCR

Supersedes:	Buildings Bulletin 2014-014 dated September 1, 2014							
Related Bulletin(s):	2011-011 dated April 15, 2011 and OTCR Technical Bulletin number BC 18.01.08 issued 3/24/2008 titled "The use of Helical Piles per the 1968 and 2008 NYC Building Code"							
Issuer:	Alan D. Price, P.E. Director, Office of Technical Certification and Research							
Issuance Date:	September 30, 2014							
Effective Date	December 31, 2014							
Purpose:	This bulletin establishes acceptance criteria for the use of helical pile foundation systems in accordance with the New York City Construction Codes.							
Related Code Section(s):	BC BC BC	1704.1.2 1704.3 1704.8	BC BC BC	1801.3 1812.1 1812.2	BC BC	1812.11 1812.12	1	RCNY 101-06
Subject(s):	Foundation, helical pile foundation system; Pile, helical; Foundations, piers, helical piles							

Background: The NYC Construction Codes recognize helical piles as a deep foundation element however section BC 1812.1 requires helical piles to be approved. This bulletin establishes acceptance criteria for helical piles used as foundations systems.

- **Description:** Helical piles are defined in section BC 1801.3.
 - **Uses:** Helical piles may be used to support axial compression, or resist axial tension and lateral loads.
- **Evaluation Scope:** NYC Construction Codes
 - **Evaluation Criteria:** Pursuant to section AC 28-113, the Office of Technical Certification and Research (OTCR) recognizes helical pile foundation systems tested and evaluated in accordance with ICC-ES AC 358, "*Acceptance Criteria for Helical Foundation Systems and Devices*". Acceptable helical piles shall have an evaluation report issued in accordance with ICC-ES AC 358 and the design, inspection and installation shall comply with the additional requirements of this bulletin.
 - **Conditions of** Helical piles shall have an evaluation report issued in accordance with ICC-ES AC 358. The design, installation and inspection of helical piles shall be in accordance with the NYC Construction Codes and the following:
 - A. Design
 - 1. Design of helical piles shall be in accordance with section BC 1812.2.

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B. Installation Requirements:

- 1. The installation of helical piles shall be in accordance with section BC 1812.11.
- 2. The installer of any helical pile shall be as recommended by the helical pile manufacturer and possess a minimum of three years of experience in the installation of helical piles.

C. Special Inspection

- The installation of helical piles shall be subject to the special inspection requirements pursuant to sections BC 1704.8 and BC 1812.12, 1 RCNY Section 101-06, and applicable special inspection requirements published the evaluation report issued in accordance with ICC-ES AC 358.
- 2. The special inspector shall verify and document on the Helical Pile Installation Form "TR5H Form" that all helical piles have been issued an evaluation report in accordance with ICC-ES AC358 prior to installation.
- 3. After satisfactory completion of the helical pile inspections the special inspector shall submit a TR5H in accordance with section BC 1704.1.2 and 1 RCNY Section 101-06 (b)(4)(ii).
- 4. Field welds performed in the installation of a helical pile foundation system are subject to the special inspection requirements of section BC 1704.3.

Referenced Standards 1. ICC-ES AC358 "Acceptance Criteria for Helical Foundations Systems and Devices" (www.icc-es.org).