

SUPERSEDED BY: BUILDINGS BULLETIN 2014-020, DATED SEPTEMBER 30, 2014

NYC Buildings Department 280 Broadway, New York, NY 10007

Rick D. Chandler, PE, Commissioner



BUILDINGS BULLETIN 2014-014 OTCR

Supersedes: None

Related 2011-011 dated April 15, 2011 and OTCR Technical Bulletin number BC 18.01.08 issued Bulletin(s): 3/24/2008 titled "The use of Helical Piles per the 1968 and 2008 NYC guilding Code"

Issuer: Alan D. Price, P.E.

Director, Office of Technical Certification and Research

Issuance Date: September 1, 2014

Effective Date October 1, 2014

Purpose: This bulletin establishes acceptance criteria for the use of helical pile foundation systems in

accordance with the New York City Construction Codes

Section(s): BC 1704.3 BC 1812.1 BC 1812.12

BC 1704.8 BC 1812.2

Subject(s): Foundation, helical pile toundation 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 Pursuant to section AC 28-113, the Office of Technical Certification and Research (OTCR) Criteria: 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 Acceptance:

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.

Buildings Bulletin 2014-014 Page 1 of 2

B. Installation Requirements:

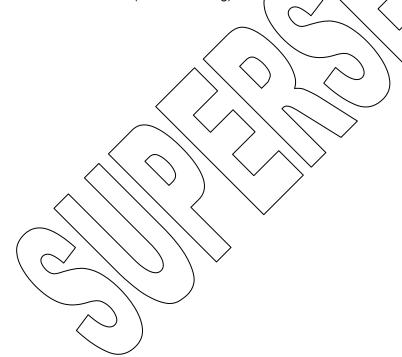
- 1. The installation of helical piles shall be in accordance with section BC 1812.11.
- 2. The installer of any helical pile shall be as recommended by the helical pile manufacturer and possess a minimum of three years of experience in the installation of helical piles.

C. Special Inspection

- 1. The installation of helical piles shall be subject to the special inspection requirements pursuant to sections BC 1704.8 and BC 1812.12, 1 RCMY 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).



Buildings Bulletin 2014-014 Page 2 of 2