



PROCESS
INDUSTRY
PRACTICES

COMPLETE REVISION
April 2019

Structural

**PIP STS02465
Augered Cast-in-Place Piles
Installation Specification**

PURPOSE AND USE OF PROCESS INDUSTRY PRACTICES

In an effort to minimize the cost of process industry facilities, this Practice has been prepared from the technical requirements in the existing standards of major industrial users, contractors, or standards organizations. By harmonizing these technical requirements into a single set of Practices, administrative, application, and engineering costs to both the purchaser and the manufacturer should be reduced. While this Practice is expected to incorporate the majority of requirements of most users, individual applications may involve requirements that will be appended to and take precedence over this Practice. Determinations concerning fitness for purpose and particular matters or application of the Practice to particular project or engineering situations should not be made solely on information contained in these materials. The use of trade names from time to time should not be viewed as an expression of preference but rather recognized as normal usage in the trade. Other brands having the same specifications are equally correct and may be substituted for those named. All Practices or guidelines are intended to be consistent with applicable laws and regulations including OSHA requirements. To the extent these Practices or guidelines should conflict with OSHA or other applicable laws or regulations, such laws or regulations must be followed. Consult an appropriate professional before applying or acting on any material contained in or suggested by the Practice.

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PUBLISHING HISTORY

<i>April 1999</i>	<i>Issued</i>
<i>February 2012</i>	<i>Complete Revision</i>
<i>April 2019</i>	<i>Complete Revision</i>

Not printed with State funds



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Data Forms

STS02465-D – Augered Cast-in-Place Pile Installation Record (U.S. Customary Units)

STS02465-DM – Augered Cast-in-Place Pile Installation Record (Metric Units)

1. Scope

This Practice describes requirements for furnishing and installing augered cast-in-place (ACIP) piles also called continuous flight auger (CFA) piles. Test piles, pile load tests and pile integrity testing are included and shall be executed in accordance with this specification when required.

2. References

Applicable parts of the following industry codes and standards and government regulations shall be considered an integral part of this Practice. The edition in effect on the date of contract award shall be used, except as otherwise noted. Short titles will be used herein where appropriate.

2.1 Industry Codes and Standards

- American Concrete Institute (ACI)
 - ACI 212.3R - *Report on Chemical Admixtures for Concrete*
 - ACI 301 - *Specifications for Structural Concrete*
 - ACI 301M - *Specifications for Structural Concrete (Metric)*
 - ACI 305.1 - *Specification for Hot Weather Concreting*
 - ACI 306.1 - *Standard Specification for Cold Weather Concreting*
- ASTM International (ASTM)
 - ASTM A615/A615M - *Standard Specification for Deformed and Plain Carbon-Steel Bars for Concrete Reinforcement*
 - ASTM A706/A706M - *Standard Specification for Deformed and Plain Low-Alloy Steel Bars for Concrete Reinforcement*
 - ASTM A722/A722M - *Standard Specification for High-Strength Steel Bars for Prestressed Concrete*
 - ASTM C33/C33M - *Standard Specification for Concrete Aggregates*
 - ASTM C94/C94M - *Standard Specification for Ready-Mixed Concrete*
 - ASTM C109/C109M - *Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50-mm] Cube Specimens)*
 - ASTM C150/C150M - *Standard Specification for Portland Cement*
 - ASTM C494/C494M - *Standard Specification for Chemical Admixtures for Concrete*
 - ASTM C618 - *Standard Specification for Coal Fly Ash and Raw or Calcined Natural Pozzolan for Use in Concrete*
 - ASTM C937 - *Standard Specification for Grout Fluidifier for Preplaced-Aggregate Concrete*
 - ASTM C939/C939M - *Standard Test Method for Flow of Grout for Preplaced-Aggregate Concrete (Flow Cone Method)*
 - ASTM C942 - *Standard Test Method for Compressive Strength of Grouts for Preplaced-Aggregate Concrete in the Laboratory*
 - ASTM D1143/D1143M - *Standard Test Methods for Deep Foundations under Static Axial Compressive Load*