

SECTION 03 40 00 PRECAST CONCRETE OR 03 45 00 PRECAST ARCHITETURAL CONCRETE

PART 1 – GENERAL

1.1 ADMINISTRATIVE REQUIREMENTS

Retain the following for a pre-installation conference held prior to start of product installation.

- A. Pre-Installation Conference:
1. Attendance: [Architect,] [Owner,] [Contractor,] [Construction Manager,] [Design/Builder], manufacturer's representative, installer, and related trades.
 2. Review: Project conditions, manufacturer requirements, and product installation.

1.2 SUBMITTALS

- A. Action Submittals:
1. Shop Drawings: Illustrate products, installation, and relationship to adjacent construction.
 2. Product Data: Manufacturer's descriptive data and product attributes.
- B. Informational Submittals:
1. Certificate of Compliance: Certification that installed products meet specified design and performance requirements.

1.3 QUALITY ASSURANCE

Retain the following to specify minimum experience of manufacturer and installer.

- A. Manufacturer Qualifications: Minimum [] years' experience in work of this Section.
- B. Installer Qualifications: Minimum [] years' experience in work of this Section.

PART 2 – PRODUCTS

2.1 MATERIALS

Retain the following for precast panel-to-foundation anchors. This anchor requires no on-site field welds is installed from the building interior and eliminates the need for a perimeter slab pour-back strip.

- A. Precast Panel Anchors:
1. Source: PC-10 by Connect-EZ (www.theconnect-ez.com), two-component welded steel anchor assembly and concrete fastener [or approved substitute].
 - a. Comply with ACI 318.
 - i. Minimum 2 anchors per panel.
 - ii. Tension Capacity: 10,000 pounds per anchor.
 - b. Comply with Seismic Design Category (SDC) A through F.
 - c. Tension Capacity: Nominal 17,200 pounds per anchor.
 - d. Raw material and finished product produced and fabricated in USA.
 - e. Base Plate: ASTM A572 Grade 50.
 - f. Welds: Comply with AWS D1.1 Structural Welding Code.

Retain the following Concrete Fastener for Seismic Design Category (SDC) A through C.

2. Concrete Fastener: Simpson Strong-Tie Carbon Steel, Titen HD Screw Anchor, ¾ inch x 8 ½ inches.
 - a. Comply with ACI 355.2.
 - b. Comply with ICC-ES AC193.
 - c. Finish: Zinc plated to comply with ASTM B633, Class SC1.

Commented [cc1]: The following specification text has been prepared by Connect-EZ to assist design professionals in the preparation of a specification section covering shop-fabricated steel components that eliminate field welding of structural connections for precast panels.

Utilize these Specification suggestions to insert text into Master Specifications, typically SECTION 03 40 00 Precast Concrete or 03 45 00 Precast Architectural Concrete but could also be incorporated into related Sections such as 05 12 00 Structural Steel Framing, or similarly titled sections governing this work.

The following should be noted in using this document:

- Text in black is intended to be placed in a project specification. Text in blue comprises notes to the specifier and locations within the CSI/CSC 3-Part Section Format where text should be inserted. Page Format and labeling may require minor adjustments for optimal copy/paste inclusion into master specifications.

- Optional text requiring a selection by the user is enclosed within brackets and as red text, e.g.: "Source: [PA-12] [PA-18]"

- Items requiring user input are enclosed within brackets and as red text, e.g.: "Manufacturer Qualifications: Minimum [] years' experience...."

- Optional paragraphs are separated by an "OR" statement included as red text, e.g.:

**** OR ****

For assistance on the use of the products in this section, contact Connect-EZ by calling 973-903-7836 or visit their website at www.theconnect-ez.com.

Retain the following Concrete Fastener for Seismic Design Category (SDC) D through F.

3. Concrete Fastener Threaded Rod and Epoxy as specified by Engineer of Record (EOR).
 - a. Threaded Rod: Comply with ASTM F1554 Grade 55.

PART 3 – EXECUTION

3.1 INSTALLATION

- A. Install in accordance with manufacturer's instructions and approved Shop Drawings.