

SECTION 03 47 13 TILT-UP 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 tilt-up 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. Tilt-Up Panel Anchors:
1. Source: [PA-12] [PA-18] by Connect-EZ (www.theconnect-ez.net), 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 24,000 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 10 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 tilt-up panels.

Utilize these Specification suggestions to insert text into Master Specifications, typically SECTION 03 47 13 Tilt-Up Concrete but could also be incorporated into related Sections such as 03 30 00 Cast-in-Place Concrete, 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.net.

**** OR ****

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.

Retain the following if interior panel anchor covers are desired.

4. Panel anchor covers: Manufacturer's pre-fabricated, steel cover to conceal anchor.

PART 3 – EXECUTION

3.1 INSTALLATION

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