

SECTION 03 30 00 {03300}

CAST-IN-PLACE CONCRETE

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This section includes cast-in-place or in situ concrete for structural building frame, slabs on fill or grade and other concrete components associated with building. This section references ACI 301 and ACI 318. ICC codes require use of ACI 318. Edit references to suit Project conditions.

This section includes basic finishing and curing methods. Detailed concrete floor finishing and curing methods are specified in other SPECTEXT sections.

This section includes integral accessory control, expansion and contraction joint devices to encourage concrete cracking and movement to occur at predetermined locations. Water stops and other form accessories are included in Section 03 10 00 {03100}. Joint sealants can be included in this section or referenced to Section 07 90 00 {07900}.

This section includes provision for work performed using unit price payment method, when applicable.

Manufacturers listed in this section were identified as representative and not as an endorsement for meeting this specification. For additional product information, visit 4Specs at www.4specs.com, ARCAT at www.arcat.com, First Source at www.reedfirstsource.com, SpecSource at www.specsource.com, and Sweets Network at products.construction.com.

This section includes performance, proprietary, and descriptive type specifications. Edit to avoid conflicting requirements.

Contact the CSRF Support Center at supportcenter@csrf.org to submit comments or suggestions for improvements to this specification. Visit the SPECTEXT web site at www.spectext.com for current product announcements.

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes cast-in-place concrete for the following:
 - 1. Building frame members.
 - 2. Shear walls.
 - 3. Elevator shaft walls.
 - 4. Foundation walls.
 - 5. Supported slabs.
 - 6. Slabs on grade.
 - 7. Control, expansion and contraction joint devices.
 - 8. Equipment pads.
 - 9. Light pole base.

10. Flagpole base.
11. Thrust blocks.
12. Manholes.
13. [_____].

B. Related Sections:

1. Section 03 10 00 - Concrete Forming and Accessories: [Formwork and accessories.] [Placement of [joint device] [joint device anchors] in formwork.]
2. Section 03 20 00 - Concrete Reinforcing.
3. Section 03 35 00 - Concrete Finishing.
4. Section 03 39 00 - Concrete Curing.
5. [Section 07 90 00 - Joint Protection.]
6. Section 07 95 00 - Expansion Control.
7. Section 31 23 23 - Fill: Sand layer over vapor retarder.
8. Section [_____-_____]: Preparing concrete surfaces to receive [dampproofing] [waterproofing].
9. Section [_____-_____]: Mechanical items for casting into concrete.
10. Section [_____-_____]: Electrical items for casting into concrete.
11. Section [_____-_____]: Sidewalks, curbs and gutters.

C. Related Sections:

1. Section [_____-_____]: Sidewalks, curbs and gutters.
2. Section 02320 - Backfill: Sand layer over vapor retarder.
3. Section 03100 - Concrete Forms and Accessories: [Formwork and accessories.] [Placement of [joint device] [joint device anchors] in formwork.]
4. Section 03200 - Concrete Reinforcement.
5. Section 03350 - Concrete Finishing.
6. Section 03390 - Concrete Curing.
7. Section [_____-_____]: Preparing concrete surfaces to receive [dampproofing] [waterproofing].
8. Section 05810 - Expansion Joint Cover Assemblies.
9. [Section 07900 - Joint Sealers.]
10. Section [_____-_____]: Mechanical items for casting into concrete.
11. Section [_____-_____]: Electrical items for casting into concrete.

1.2 UNIT PRICE - MEASUREMENT AND PAYMENT

Use this article ONLY when work of this section is performed under unit price payment method. Delete this article when payment is by Stipulated Sum/Price.

A. Concrete - Slab-on-fill or grade:

1. Basis of Measurement: By the [square [foot] [_____]] (square [meter] [_____]) [cubic [yard] [_____]] (cubic [meter] [_____]).
2. Basis of Payment: Includes concrete, placement accessories, consolidating and leveling, troweling, curing.

B. Concrete - Vertical in Forms: