

Sonoco
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Product Guide Specification

Specifier Notes: This product guide specification is written according to the Construction Specifications Institute (CSI) 3-Part Format. The section must be carefully reviewed and edited by the Architect or Engineer to meet the requirements of the project and local building code. Coordinate this section with other specification sections and the Drawings.

Delete all "Specifier Notes" when editing this section.

SECTION 03135

CONCRETE VOID TUBES

Specifier Notes: This section covers Sonoco Sonovoid® Fiber Tubes. Consult Sonoco for assistance in editing this section for the specific application.

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Tubes for forming voids in concrete.

1.2 RELATED SECTIONS

Specifier Notes: Edit the following list of related sections as required for the project. List other sections with work directly related to this section.

- A. Section 03300 - Cast-in-Place Concrete.
- B. Section 03400 - Precast Concrete.

1.3 REFERENCES

Specifier Notes: List standards referenced in this section, complete with designations and titles. This article does not require compliance with standards, but is merely a listing of those used.

- A. ACI 301 - Standard Specification for Structural Concrete.

1.4 SUBMITTALS

- A. Comply with Section 01330 - Submittal Procedures.
- B. Product Data: Submit manufacturer's product data, including installation instructions.

Specifier Notes: Edit the following sentence to specify shop drawings. Delete if shop drawings are not required for formwork.

- C. Shop Drawings: Submit manufacturer's shop drawings, indicating locations and dimensions of embedded items.

1.5 QUALITY ASSURANCE

- A. Formwork and Form Accessories: ACI 301, unless otherwise specified.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- B. Storage:
 - 1. Store tubes in accordance with manufacturer's instructions.
 - 2. Store tubes vertically in dry area.
 - 3. If tubes stored horizontally, elevate a minimum of 10 inches above ground on supports running length of tubes.
 - 4. Protect tubes from rain and excess moisture.
 - 5. Do not drop tubes.
- C. Handling: Protect tubes during handling and installation to prevent damage.

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. Sonoco, 1 North Second Street, Hartsville, South Carolina 29550. Toll Free (888) 875-8754. Website www.sonotube.com. E-mail terry.mckeon@sonoco.com.

2.2 CONCRETE VOID TUBES

- A. Concrete Void Tubes: Sonovoid Fiber Tubes.
 - 1. Description: Multiple layers of 100 percent recycled paperboard, spirally wound, and laminated with adhesive. Moisture barrier ply.
 - 2. Interior and Exterior Surfaces: Treated for protection against weather and moisture.
 - 3. 1-piece, 1-time use tubes, to be left in place.

Specifier Notes: Specify outside diameter of tubes. Consult Sonoco for availability of custom sizes.

- 4. Outside Diameter: [_____ inches] [As indicated on the Drawings].

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine areas to receive tubes. Notify Architect if areas are not acceptable. Do not begin installation until unacceptable conditions have been corrected.

3.2 INSTALLATION

- A. Install tubes in accordance with manufacturer's instructions.
- B. Install tubes at locations and to elevations as indicated on the Drawings.
- C. Lay tubes in place and anchor securely in accordance with manufacturer's instructions to prevent flotation and shifting when concrete is placed.
- D. Do not use tubes that are out-of-round, deformed, or damaged.
- E. Protect tubes from rain and snow if work is delayed and tubes have been positioned for placing concrete.
- F. Place waterproof sheeting over tubes to prevent damage by rain or snow.
- G. Do not allow tubes to sit in water or snow before placing concrete.

3.3 PLACING CONCRETE

Specifier Notes: Specify Section 03300 for cast-in-place concrete. Specify Section 03400 for precast concrete.
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- A. Place concrete as specified in Section [03300] [03400], unless otherwise specified in this section.
- B. Do not place concrete if tubes are wet.
- C. Place concrete to minimize movement of tubes.
- D. Vibrate concrete around tubes.
- E. Vent tubes over 18 inches OD to release air and prevent excess pressure.

END OF SECTION