

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 VOIDS

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

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Voids 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 with labels clearly identifying product name and manufacturer.
- B. Storage:
 - 1. Store voids in accordance with manufacturer's instructions.
 - 2. Store voids vertically in dry area.
 - 3. If voids stored horizontally, elevate above ground on supports running length of voids. Uniform support is required to keep voids from warping.
 - 4. Protect voids from rain and excess moisture.
 - 5. Do not drop voids.
- C. Handling: Protect voids 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. .
 - 2. Exterior Surfaces: Moisture barrier ply for protection against weather and moisture.
 - 3. 1-piece, 1-time use voids, to be left in place.

Specifier Notes: Specify outside diameter of voids. 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 voids. Notify Architect if areas are not acceptable. Do not begin installation until unacceptable conditions have been corrected.

3.2 INSTALLATION

- A. Install voids in accordance with manufacturer's instructions.
- B. Install voids at locations and to elevations as indicated on the Drawings.
- C. Lay voids in place and anchor securely in accordance with manufacturer's instructions to prevent flotation and shifting when concrete is placed.

Sonovoid O.D.	Maximum Support Spacing	Maximum Spacing between Hold Downs
2.25 - 18.00	4' O.C.	24" from end of tube, then every 4 feet
17.70-22.85	3' O.C.	18" from end of tube, then every 3 feet
24.85-36.90	2' O.C.	12" from end of tube, then every 2 feet

- D. Do not use voids that are out-of-round, deformed, or damaged.
- E. Protect voids from rain and snow if work is delayed and voids have been positioned for placing concrete. Place waterproof sheeting over voids to prevent damage by rain or snow.
- F. Do not allow voids 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.

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

END OF SECTION