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Product Guide Specification

Specifier Notes: This product guide specification is written according to the Construction Specifications Institute (CSI) 2004 Edition MasterFormat. 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 03 11 13

ROUND CONCRETE COLUMN FORMS

Specifier Notes: This section covers Sonoco Sonotube® Concrete Forms. Consult Sonoco for assistance in editing this section for the specific application.

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Round cast-in-place concrete column forms.

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 03 30 00 - Cast-in-Place 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 01 33 00 - Submittal Procedures.
- B. Product Data: Submit manufacturer's product data, including erection and removal 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. Column 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 forms in accordance with manufacturer's instructions.
2. Store forms vertically in dry area.
3. If forms stored horizontally, elevate a minimum of 10 inches above ground on supports running length of forms.
4. Protect forms from rain and excess moisture.
5. Do not dent, scratch, or damage interior coating.
6. Do not drop forms.

- C. Handling: Protect forms during handling and erection 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 ROUND CONCRETE COLUMN FORMS

- A. Concrete Column Forms: Sonotube Concrete Forms.

1. Description: Multiple layers of 100 percent recycled paperboard, spirally wound, and laminated with adhesive.
2. Interior Surface: Smooth with spiral seam. Alathon release and moisture barrier coating.
3. Exterior Surface: Micryl moisture barrier coating.
4. Spiral Mark: Impart visible spiral mark on concrete columns.
5. 1-piece, 1-time-use forms.
6. Recyclable.

Specifier Notes: Specify inside diameter of forms. Sonotube Concrete Forms are available with inside diameters from 6 to 60 inches.

7. Inside Diameter: [_____ inches] [As indicated on the Drawings].

PART 3 EXECUTION

3.1 EXAMINATION

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

3.2 ERECTION

- A. Place and brace column forms in accordance with manufacturer's instructions.
- B. Erect forms at locations and to elevations as indicated on the Drawings.
- C. Erect column forms plumb.
- D. Avoid damaging interior surface of forms.
- E. Waterproof and reinforce openings cut into forms.
- F. Do not use forms that are out-of-round, deformed, damaged, or contain defects that could impair concrete surface.
- G. Protect forms from rain and snow if work is delayed and forms have been positioned for placing concrete.
- H. Place waterproof sheeting over top of forms to prevent damage to interior surface by rain or snow.
- I. Do not allow forms to stand in water or snow before placing concrete.

3.3 PLACING CONCRETE

- A. Place concrete as specified in Section 03 30 00, unless otherwise specified in this section.
- B. Do not place concrete if column forms are wet.
- C. Apply form release coating to interior surface.
- D. Place concrete at pour rate in accordance with manufacturer's instructions.
- E. Do not touch interior surface of forms with vibrator.
- F. Do not vibrate concrete from exterior of forms.

3.4 REMOVAL

- A. Remove column forms in accordance with manufacturer's instructions.
- B. Remove forms as soon as removal operations will not damage concrete, a minimum of 24 hours and a maximum of 5 days after placing concrete.

- C. Prevent damage to concrete from form removal.

Specifier Notes: Delete protection for the concrete columns if not required.

3.5 PROTECTION

- A. Protect concrete columns during remaining construction by placing form halves loosely around columns and securing. Ensure concrete surface is fully dry.

END OF SECTION