



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 16

Cylindrical Easy Pour Forms

Specifier Notes: This section covers Greif's Easy Pour Concrete Forms.

Part 1 GENERAL

1.1 SECTION INCLUDES

- A. Cylindrical cast-in-place concrete column forms with smooth interior surface.

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. American Concrete Institute (ACI): ACI 301 – Specification for Structural Concrete.

1.4 SUBMITTALS

- A. Comply with Section 01 33 00 Submittal Procedures.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.

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 DELIVERY, STORAGE AND HANDLING

- A. Delivery: Deliver materials to site in manufacturer's original, unopened container and packaging, with labels clearly identifying product name and manufacturer.
- B. Storage:
 - 1. Store concrete forms in accordance with manufacturer's requirements.
 - 2. Store concrete forms vertically, on end. If stored horizontally, tubes shall be level, supported by their full length and not less than 4 inches (101mm) off the ground.
 - 3. Store concrete forms in clean, dry area, under cover and protected from rain and excess moisture.
 - 4. Do not dent, scratch or damage interior.
 - 5. Do not drop them.
- C. Handling: Protect forms during handling and installation to prevent damage.

1.6 Quality Assurance

Manufacturer's standard limited warranty against material and manufacturing defects.

PART 2 PRODUCTS

2.1 MANUFACTURER

A. Acceptable Manufacturer: Greif, Inc., which is located at: 425 Winter Road, Delaware, OH 43015 Phone Number: (740) 549-6000 Email address: Doug.Courtney@greif.com or Marty.Lotzer@greif.com

2.2 CYLINDRICAL CONCRETE FORMS

A. Concrete Forms: Greif's Easy Pour Concrete Forms manufactured by Greif, Inc., and as follows:

- 1. Tube Wall Thickness and Lengths: Typically varying from 12 feet (3.66m) and 24 feet (7.3152m) lengths and a range of 0.125 inches (3.175mm) to 0.600 inches (15.24mm) wall thickness as required.
- 2. Multiple layers of recycled paperboard, spirally wound and laminated with moisture resistant adhesive.
- 3. Outer Tube Coating: Moisture and weather-resistant.
- 4. Inner Tube Surface: Smooth with spiral seam, moisture barrier coating.
- 5. One piece one-time use forms.

Specifier Notes: Specify inside diameter and length of forms. Greif Easy Pour Concrete Forms are available with inside diameters from 6 to 60 inches and one continuous length up to 28 feet or more.

PART 3 EXECUTION

3.1 EXAMINATION



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

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3.2 INSTALLATION

- A. Remove dirt and debris before placing concrete form over steel reinforcing bars and before placing concrete.
- B. Erect column forms at locations and to elevation as indicated on the Drawings.
- C. Erect column forms plumb.
- D. Brace to maintain plumb form throughout pouring and curing of concrete.
- E. 2 x 4 frame/collar or similar rig applied at top of form (and bottom if installed on concrete slab). Secure bottom collar to concrete slab.
- F. Keep form stable with anchored bracing separated at 90 degrees.
- G. Forms over 12' --- a collar/braces can be added to the middle of the form for additional support. Anchor bracing separated at 90 degrees.
- H. Avoid damaging interior surface of forms during installation.
- I. Waterproof and reinforce openings cut into forms.
- J. Do not use forms that are out-of-round, deformed or contain defects that could impair concrete surface.
- K. Protect forms from rain and snow if work is delayed and forms have been positioned for placing concrete.
- L. Place waterproofing sheeting over top of forms to prevent damage to interior surface by rain or snow.
- M. 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 the section.
- B. Do not place concrete if column forms are wet.
- C. Greif Easy Pour forms up to 24' are designed to withstand the full hydrostatic pressure of single pour/lift.
- D. Concrete must be vibrated during pour.
- E. Do not touch interior surface of forms with vibrator.
- F. Do not vibrate concrete from exterior of forms.

3.4 REMOVAL

- A. Strip forms according to industry best practices including the following:
 1. Remove forms as soon as removal will not damage concrete, a minimum of 24 hours and a maximum of 5 days after placing concrete.
 2. Use portable electric saw set to depth just short of form thickness to cut forms for removal.
 3. Make one or two evenly spaced cuts with portable saw before stripping forms.
 4. 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.

END OF SECTION