

OKLAHOMA STATE UNIVERSITY - BUILDING DESIGN STANDARDS

PART 1 GENERAL

1.1 REFERENCES:

- A. ACI 301: Specifications for Structural Concrete for Buildings.
- B. ACI 303: Guide to Cast-in-Place Architectural Concrete Practice.
- C. ACI 347: Recommended Practice for Concrete Formwork.
- D. PS 1: Construction and Industrial Plywood.

1.2 SUBMITTALS:

A. Shop Drawings:

- 1. Submit shop drawings for concrete formwork for architectural cast-in-place concrete. Include construction joints, sizes, shapes, materials, gauging information, architectural detailing, openings, clean outs, ties, and other elements affecting appearance. Review will be for general design and appearance factors only.

LEED MR Credit 7: Certified Wood
Demonstrate that all wood products came from "FSC Certified Wood" sources certified by the Forest Stewardship Council. Provide Certification and chain of custody documentation.

1.3 QUALITY ASSURANCE:

A. Field Samples:

- 1. Field samples under provisions of Section 01300 and coordinate with Section 03300.
- 2. Sample formwork panel for architectural concrete surfaces.
 - a. Special treatment or finish as result of formwork.
 - b. Vertical and horizontal form joints.
 - c. Typical rustication joints.
- 3. Provide forms for field mockups and samples specified in Section 03300.

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PART 2 PRODUCTS

2.1 FORM MATERIALS:

A. Plywood:

1. Douglas Fir species; select sheathing tight face grade; sound, undamaged sheets with straight edges.
2. "B-B Medium Density Overlayed Concrete Form", Class I as defined by PS1.
3. Use new plywood for the project for exposed surfaces. Do not reuse plywood more than four times. Do not use patched forms or plywood previously used on another job for exposed concrete.

LEED MR Credit 7: Certified Wood

Plywood shall come from sources certified by the Forest Stewardship Council (FSC).

B. Glass Fiber Fabric Reinforced Plastic Forms: Matched, tight fitting, stiffened to support weight of concrete without deflection detrimental to structural tolerances and appearance of finished concrete surface.

C. Tubular Column: Round, of spirally wound, seamless, laminated fiber type; surface treated with release agent.

2.2 FORMWORK ACCESSORIES:

A. Form Ties: Snap-off metal of fixed length; gang form throughbolt, tapered ties -- cone type; 1-1/2 inch break back dimension; free of defects that will leave holes no larger than 1 inch diameter in concrete surface, with waterproofing washer. Gang form throughbolt or tapered tie type, free of defects that will leave holes no larger than 1 inch diameter in concrete surface.

B. Fillets for Chamfered Corners: Wood strips or rigid plastic, 45 degrees, 3/4 inch wing size; maximum possible lengths.

C. Dovetail Anchor Slots: Galvanized steel at brick, concrete block and stone work; 24 gage; foam-filled; release tape sealed slots; bent tab anchors; securable to concrete formwork.

D. Flashing Reglets: Galvanized steel; 24 gage; longest possible lengths; release tape sealed slots; with alignment splines for joints; securable to concrete formwork.

E. Form Liners: Fabricated from fiberglass, elastomeric material, or urethane.

END OF SECTION 03100