

# Steele Plastics, Inc

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## Specifications

### Solid Fiberglass Cover

#### SCOPE

This specification is intended to describe the minimum design and manufacturing requirements for Solid Fiberglass Covers as supplied by Steele Plastics Inc.

#### REFERENCED STANDARDS

ASTM D2583, Standard Test Method for Indentation Hardness of Rigid Plastics by Means of a Barcol Impressor.

ASTM D 883 Definitions of Terms Relating to Plastics.

**STYLE:** Solid Fiberglass.

**SIZES:** 18", 24", 30", 36" 42", 48", 54", 60", 72" (as measured inside diameter of basin/wetwell).

#### MATERIALS

**Resin:** Resins used shall be commercial grade unsaturated polyester type, suitable for the intended service as indicated by usage history or resin manufacturer's recommendation.

**Cure System:** Resin promotion and catalyst system used shall follow resin manufacturers' guidelines.

**Fillers and additives:** No fillers or resin extenders of any type shall be utilized. A maximum of two percent by weight of any commercial grade thixotropic agent may be added to resins for the purpose of viscosity control.

**Reinforcing Materials:** Reinforcing material shall be commercial grade "E" type glass fibers in the form of chopped strand mat, chopped roving, woven roving or continuous roving. Glass fibers shall be treated with a coupling agent that facilitates bonding between the reinforcement and the resin.

## DESCRIPTION

- The Cover shall be constructed with chopped strand glass fiber reinforcement with a minimum thickness of ¼”.
- The cover shall be blank, have a vent grommet, or a coupling as required to meet the application.
- The cover shall be designed to be 6” larger in diameter than the ID of the wet well.
- The cover shall be pre-drilled with a six-hole 60° bolt pattern.
- The cover shall be supplied with Gasket and Stainless Steel bolts and washers.
- The cover shall support a Live Load of 300 psf.
- The cover shall be gel coated Green, Tan, or constructed using Green pigmented Natural Resin as required.
- Solid Fiberglass Covers in sizes 24” thru 48” (as measured inside diameter of basin/wetwell) are available in Tread Plate Design.

## QUALITY ASSURANCE

**Visual Acceptance:** The top surface shall be free of exposed fiber, crazing and delaminations. No Blisters larger than 1/2 inch or wrinkles more than 1/8 inch in depth will be allowed.

**Laminate Cure:** Laminate cure shall be indicated by means of Barcol hardness measured in accordance with ASTM D2583. The average Barcol hardness shall not be less than 90 percent of the resin manufacturer’s recommendation for clear resin castings.

**Workmanship:** All workmanship and materials throughout shall be of the highest quality available.

This cover shall be as manufactured by Steele Plastics Inc, Conway Arkansas.