

# Steele Plastics, Inc

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## Specifications

### Simplex Fiberglass Cover

#### SCOPE

This specification is intended to describe the minimum design and manufacturing requirements for Simplex Fiberglass Covers 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:** Simplex fiberglass cover.

Sizes: 24", 30", 36" (as measured inside basin/wetwell diameter).

#### 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 designed to accept one (1) pump with thru the cover discharge piping. This cover is NOT designed to use with guide rail systems.
- The Fiberglass Cover shall be constructed with chopped strand glass fiber reinforcement with a minimum thickness of ¼”.
- The cover shall have no fillers other than those required to improve handling properties as recommended by the resin manufacturer.
- The cover body 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 basin/wetwell.
- 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.
- Fiberglass covers with thru the cover discharge will NOT be load rated.
- The cover shall be gel coated Tan in color.
- The cover shall have one (1) removable bolt down interior pump removal plate that is blank, has a pump discharge pipe grommet, and/or a power cord plug as required to meet the application.
- The cover shall have a removable bolt down inspection plate that can accommodate ½” cord grips for installation of mercury float switches.

**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.