

# Steele Plastics, Inc

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## Specifications

### Fiberglass Bolt-on Link Seal Hub

#### SCOPE

This specification shall cover the minimum requirements for Fiberglass Bolt on Link seal Hub as manufactured by Steele Plastic Inc.

#### REFERENCED STANDARDS

- ASTM D2583, Standard Test Method for Indentation Hardness of Rigid Plastics by Means of a Barcol Impressor.
- ASTM D3753, Standard Specification for Glass-Fiber Reinforced Polyester Manholes and Wet wells.
- AWWA C950, Fiberglass Pressure Pipe.

#### Bolt on Fiberglass Hub

The Bolt on Hub shall be built using fiberglass pipe with interior dimensions designed to accommodate Link Seal® sealing links in conjunction with all standard wastewater sewage pipe. The fiberglass pipe shall be laminated to a fiberglass plate that has the correct curvature to match the exterior of the wet well it is to be attached to. The fiberglass pipe shall be attached to the mounting plate in either a “straight” or “parallel” manner to meet the application. The hub is supplied with stainless steel bolts, nylock nuts, and bar-tight sealing washers. It is the responsibility of the installed to apply silicone or other adequate sealant between the basin wall and the bolt on hub.

#### 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.

## **QUALITY ASSURANCE**

**Visual Acceptance:** The inner 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 Fiberglass Bolt On Link Seal Hub shall be as manufactured by Steele Plastics Inc, Conway Arkansas.