Scope

This specification designates the requirements for 8- through 48-inch (200 to 1200mm) Prinsco GOLDFLO Dual Wall Catch Basins.

Applications

Used for surface intake of water and collecting several drainage pipes in one location. They may be used in conjunction with highway drains, storm sewers, and subsurface drains in low traffic areas.

Requirements

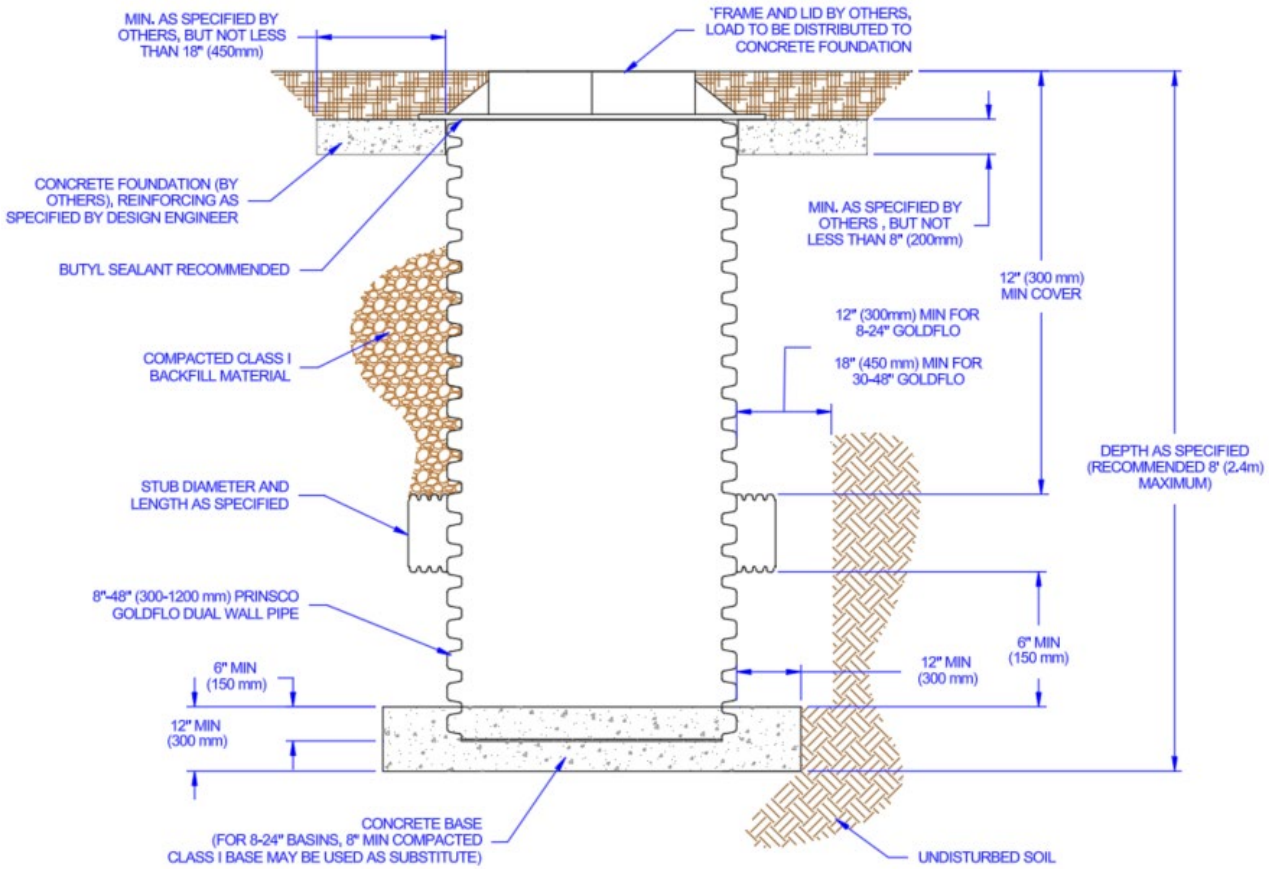
Prinsco GOLDFLO Dual Wall Catch Basins are manufactured with GOLDFLO dual wall polyethylene pipe which shall have annular exterior corrugations with a smooth interior and shall meet the following standards:

- 8- through 10-inch (100 to 250mm) shall meet AASHTO M252, Type S
- 12- through 48-inch (300 to 1200mm) shall meet ASTM F2306 and AASHTO M294, Type S

Material Properties

GOLDFLO pipe and fabricated fittings shall be manufactured using High Density Polyethylene (HDPE) meeting the minimum requirements of cell classification 424420C for 8- through 10-inch (200 to 250mm) diameters and 435400C for 12- through 48-inch (300 to 1200mm) diameters, as defined and described in ASTM D3350, except the carbon black content shall not be greater than 4%.

The HDPE pipe material for 12- through 48-inch (300 to 1200mm) diameters shall be tested for slow crack growth resistance using the notched constant ligament-stress (NCLS) test as specified in sections 9.4 and 5.1 of AASHTO M294 and ASTM F2306, respectively.



Catch Basin Design

Catch Basins can be manufactured in 8- through 48-inch (200 to 1200mm) diameters with heights ranging from 2- to 8-feet (0.6 to 2.4m). Taller basin heights can be achieved under special fabrication and installation requirements; contact your local Prinsco representative for more information. Elevations of inlet and outlet stubs can be positioned on the catch basins based on project requirements; specific dimensions may vary slightly based on fabrication capabilities and corrugation locations. Inlets and outlets are installed by welding and fusing pipe stubs on to the catch basin riser. The bottom of the catch basin can remain open to allow water to leach into the soil, have a concrete base installed, or a polyethylene bottom can be welded on to the catch basin riser.

Installation

Catch basins shall be installed in accordance with ASTM D2321 and Prinsco's installation guidelines. Compacted Class I (Clean, crushed stone) material is recommended for the backfill surrounding the basin. Proper backfill placement and compaction around HDPE pipe in vertical applications is critical for long term performance. Installation of this product must be securely enclosed with a locking lid.

Reference Specifications

This specification references the latest edition and revisions of the following standard specifications:

- AASHTO M252 – *Standard Specification for Corrugated Polyethylene Drainage Pipe*
- AASHTO M294 – *Standard Specification for Corrugated Polyethylene Pipe, 300- to 1500-mm (12- to 60-in.) Diameter*
- ASTM F2306 – *Standard Specification for 12 to 60-in. (300 to 1500 mm) Annular Corrugated Profile-Wall Polyethylene (PE) Pipe and Fittings for Gravity-Flow Storm Sewer and Subsurface Drainage Applications*
- ASTM D3350 – *Standard Specification for Polyethylene Plastics Pipe and Fittings Materials*
- ASTM D2321 – *Standard Practice for Underground Installation of Thermoplastic Pipe for Sewers and Other Gravity-Flow Applications*