# GOLDFLO DUAL WALL CATCH BASIN SPECIFICATION

***Scope:***
This specification designates the requirements for 12- through 60- inch Prinsco GOLDFLO Dual Wall Catch Basins.

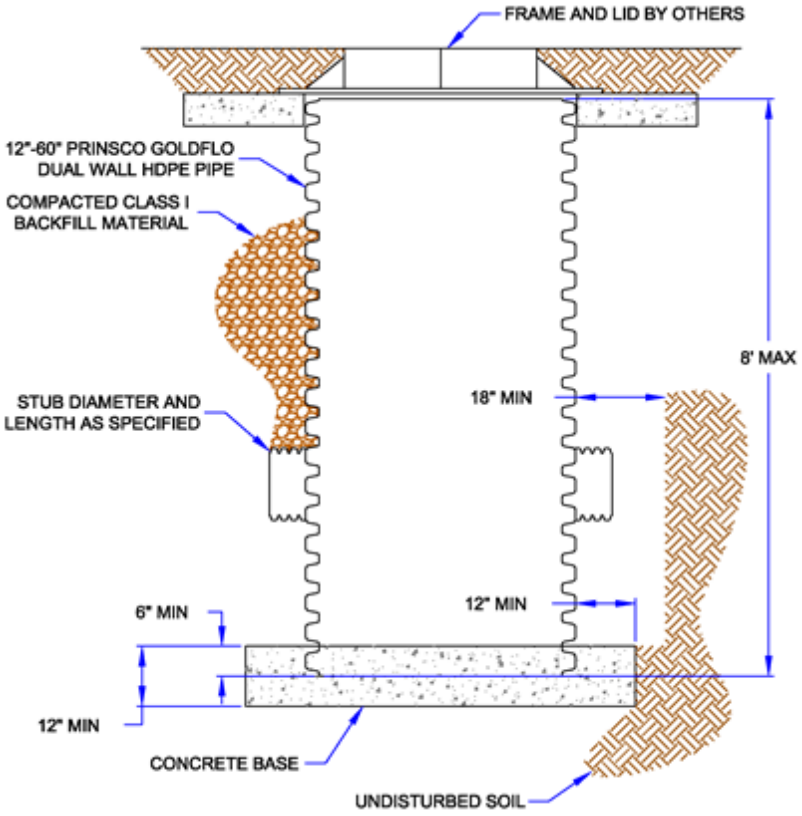
***Applications:***
Used for surface intake of water and collecting several drainage pipes in one location. They may be used in conjunction with highway drains, storm sewers and subsurface drains in low traffic areas.

***Requirements:***
All Prinsco GOLDFLO Dual Wall Catch Basins are manufactured from Prinsco GOLDFLO Dual Wall Polyethylene Pipe, which meets or exceeds the following standards:

- 4- through 10- inch shall meet AASHTO M252, Type S
- 12- through 60- inch shall meet ASTM F2306 or 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 of 435420C for 4- through 10- inch diameters and 435400C for 12- through 60- inch diameters, as defined and described in ASTM D3350 except the carbon black content shall not exceed 4%.

The HDPE pipe material for 12- through 60- inch diameters shall be tested for slow crack growth resistance using the notched constant ligament-stress (NCLS) test as specified in sections 9.5 and 5.1 of AASHTO M294 and ASTM F2306, respectively. Average failure time of the five test specimens shall not be less than 24 hours.



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***Catch Basin Design:***
Catch Basins can be manufactured in 12 inch – 60 inch diameters with heights ranging from 2 – 8 feet. Elevations of inlet and outlet stubs can be positioned on the catch basins based on project requirements. 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 envelope. 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 M294 – *Standard Specification for Corrugated Polyethylene Pipe, 300- to 1500-mm (12- to 60-in.) Diameter*
- AASHTO M 252 – *Standard Specification for Corrugated Polyethylene Drainage Pipe*
- 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 D477 – *Standard Specification for Elastomeric Seals (Gaskets) for Joining Plastic Pipe*
- ASTM D2321 – *Standard Practice for Underground Installation of Thermoplastic Pipe for Sewers and Other Gravity-Flow Applications*



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