

Scope

This specification designates the requirements for 8- through 15-inch (200 to 375mm) Prinsco GOLDFLEX® flexible dual wall pipe for use in gravity-flow land drainage applications.

Pipe Requirements

Prinsco GOLDFLEX pipe shall have annular exterior corrugations with a flexible, smooth interior and shall meet the following standards:

- 8- through 15-inch (200 to 375mm) shall meet ASTM F3390

Materials

GOLDFLEX outer corrugations shall be manufactured using High Density Polyethylene (HDPE) having a cell classification of 424400C for 8-inch and 435400C for 12- & 15-inch diameters as defined and described in ASTM D3350. The interior liner is manufactured with a virgin polyethylene compound in accordance with section 5.1 of ASTM F3390.

Joint Performance

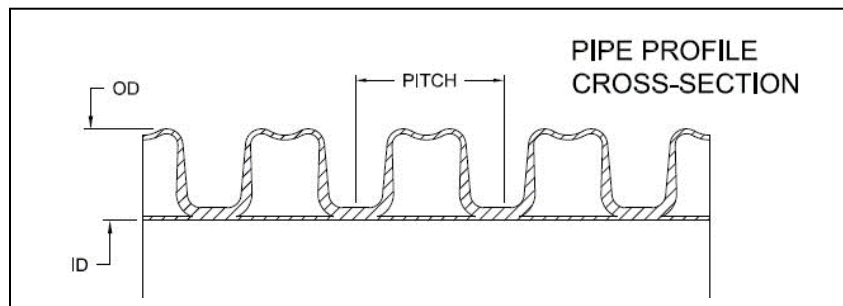
GOLDFLEX pipe joints shall meet the requirements of ASTM F3390 and F667.

- Soil Tight Connection – GOLDFLEX is available in plain end configuration and shall be joined with external couplers. Coupling methods shall be designed to positively engage with the external corrugations and shall meet the soil tightness requirements of paragraph 26.4.2.4 in Section 26 of the *AASHTO LRFD Bridge Construction Specifications*.

Fittings

Fittings shall meet the requirements of ASTM F3390 and F667.

Physical Pipe Dimensions



Nominal ID in (mm)	Approximate OD in (mm)	Corrugation Pitch in (mm)	Min. Pipe Stiffness @ 5% Deflection psi (kpa)
8 (200)	9.3 (236)	1.0 (25)	50 (345)
10 (250)	11.9 (302)	1.3 (33)	50 (345)
12 (300)	14.6 (371)	1.7 (43)	50 (345)
15 (375)	17.8 (452)	2.6 (66)	42 (290)



Installation

Pipe and fittings shall be installed in accordance with ASTM D2321 or ASTM F449 and Prinsco's published installation guidelines. Minimum cover for AASHTO H-25 loads shall be 12" (300mm) and shall be measured from the top of the pipe to the bottom of flexible pavement or to the top of rigid pavement. Minimum cover shall be 24" (600mm) for all agricultural applications. Contact your local Prinsco representative or visit www.prinsco.com for the latest installation guidelines.

Reference Specifications

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

- ASTM F3390 – *Standard Specification for 3 through 24 in. Lined Flexible Corrugated Polyethylene Pipe for Land Drainage Applications*
- ASTM D3350 – *Standard Specification for Polyethylene Plastics Pipe and Fittings Materials*
- ASTM F667 – *Standard Specification for 3 through 24 in. Corrugated Polyethylene Pipe and Fittings*
- ASTM D2321 – *Standard Practice for Underground Installation of Thermoplastic Pipe for Sewers and Other Gravity-Flow Applications*
- ASTM F449 – *Standard Practice for Subsurface Installation of Corrugated Polyethylene Pipe for Agricultural Drainage or Water Table Control*