

Scope

This specification designates the requirements for 8- through 15-inch I.D. Prinsco GOLDFLEX® pipe for use in gravity-flow agricultural 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 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 low density polyethylene compound.

Joint Performance

GOLDFLEX pipe shall be joined using soil tight connections meeting ASTM F3390 or F667. GOLDFLEX joints shall be assembled in accordance with the manufacturer’s requirements.

Pipe Stiffness

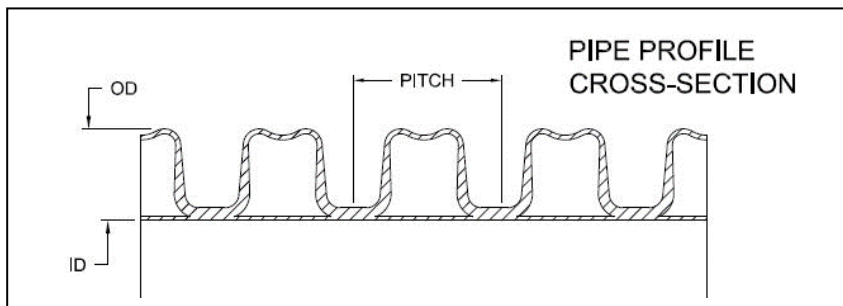
GOLDFLEX pipe stiffness meets the requirements of AASHTO M252 & M294 as shown in the table below.

Fittings

Fittings shall meet the requirements of ASTM F667. Standard fittings are available as listed on Prinsco’s website www.prinsco.com.

Physical Pipe Dimensions

Nominal ID (in)	Approximate OD (in)	Coil Length (ft)	Corrugation Pitch (in)	Approximate Weight/foot (lb)	Min. Pipe Stiffness @ 5% Deflection (psi)
8"	9.3	825	1.0	1.7	50
12"	14.5	320	2.0	3.3	50
15"	17.8	190	2.7	4.6	42





Installation

Pipe and fittings shall be installed in accordance with ASTM F2321 or ASTM F449 and Prinsco's published installation guidelines. Minimum cover for AASHTO H-25 loads shall be 12" as measured from the top of the pipe to the bottom of flexible pavement or to the top of rigid pavement, and shall be 18" from top of pipe to ground level 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*
- 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 D2321 – *Standard Practice for Underground Installation of Thermoplastic Pipe for Sewers and Other Gravity-Flow Applications*