

Scope

This specification designates the requirements for 8- and 10-inch I.D. Prinsco GOLDLINE® GLP perforated pipe for use in gravity-flow on-site waste leach bed applications.

Pipe Requirements

Prinsco GOLDLINE GLP pipe shall have annular interior and exterior corrugations and shall meet ASTM F667. The GOLDLINE GLP shall contain two rows of cleanly cut 3/8-inch and 1/2-inch diameter holes for 8- and 10-inch diameter GLP pipe, respectively. Perforation pattern shall be arranged in two rows, each row 120 degrees to each side of the GOLDLINE alignment stripe, containing a hole in the valley of every other corrugation. GOLDLINE GLP shall be supplied with a pre-installed filter fabric and shall be shipped in a protective wrap to protect the pipe and fabric.

Materials

GOLDLINE GLP pipe and fittings shall be manufactured using High Density Polyethylene (HDPE) meeting the minimum requirements of cell classification of 424410C as defined and described in ASTM D3350.

Fabric Properties

The pre-installed filter fabric shall be a circular-knit polyester geotextile fabric with the following properties.

Property	ASTM Test Method	Value
Weight Relaxed, oz/yd ² (g/m ²)	D3887	2.8 - 3.9 (94.94 – 132.23)
Weight Applied, oz/yd ² (g/m ²)		2.6 - 3.5 (88.15 – 118.67)
Thickness, in (mm)	D4491	0.03 (0.75)
AOS, US Sieve	D4751	30
AOS, (UM)		600
FOS (microns)	CAN/CFSB-148.1, M10-94	450
Burst Strength, psi (kPa)	D3786	110 (760)
Puncture Resistance, lbs (N)	D6241	225 (1000)
Water Flow Rate @ 2" head, GPM/ft ²	D4491	300
Permittivity, sec ⁻¹	D4491	4.5
Water Permeability (K), in/sec (cm/sec)	D4491	0.15 (0.39)
Tensile Strength, lbs*	D4632	30
Elongation at Break, % Avg	D4632	70
Melt Temperature °F (°C)		450 (230)

*Strength Value in the weaker of the two directions (machine direction MD and transverse direction XD)

Joint Performance

GOLDLINE GLP pipe shall be joined using Lock-Fast® soil tight joints meeting ASTM F667. Lock-Fast couplers shall have four positive engaging lugs to prevent pull-apart. GOLDLINE GLP joints shall be assembled in accordance with the manufacturer’s requirements.

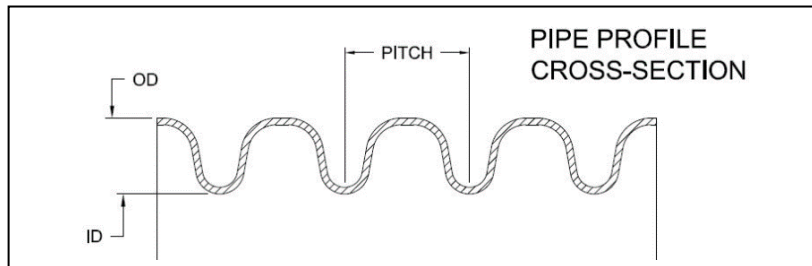
Fittings

Fittings shall meet the requirements of ASTM F667. Standard fittings are available as listed in the Prinsco Product Catalog.



Physical Pipe Dimensions

Nominal ID (in)	Approximate OD (in)	Lengths (ft)	Corrugation Pitch (in)	Approximate Weight/foot (lb)	Min. Pipe Stiffness @ 5% Deflection (psi)
8"	9.5	10, 20	1.00	1.3	35
10"	11.9	10, 20	1.30	1.9	35



Installation

GOLDLINE GLP pipe and fittings shall be installed in accordance with ASTM F481 and the local health department. Proper approval should be obtained by the appropriate local agency for specific applications and designs prior to installation. 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 F667 – *Standard Specification for 3 through 24 in. Corrugated Polyethylene Pipe and Fittings*
- ASTM D3350 – *Standard Specification for Polyethylene Plastics Pipe and Fittings Materials*
- ASTM F481 – *Standard Practice for Installation of Thermoplastic Pipe and Corrugated Pipe in Septic Tank Leach Fields*