

Scope

This specification designates the requirements for 3- through 15-inch I.D. Prinsco GOLDLINE® HWY pipe for use in gravity-flow drainage applications.

Pipe Requirements

Prinsco GOLDLINE HWY pipe shall have annular interior and exterior corrugations and shall meet the following standards:

- 3- through 10-inch shall meet AASHTO M252, Type C
- 12- through 15-inch shall meet AASHTO M294, Type C

Materials

GOLDLINE HWY pipe shall be manufactured using High Density Polyethylene (HDPE) meeting the minimum requirements of cell classification of 424420C for 3- through 10-inch diameters and 435400C for 12- through 15-inch diameters as defined and described in ASTM D3350.

The HDPE pipe material for 12- through 15-inch diameters shall be tested for slow crack growth resistance using the notched constant ligament-stress (NCLS) test as specified in section 9.4 of AASHTO M294. Average failure time of the five test specimens shall not be less than 24 hours.

Joint Performance

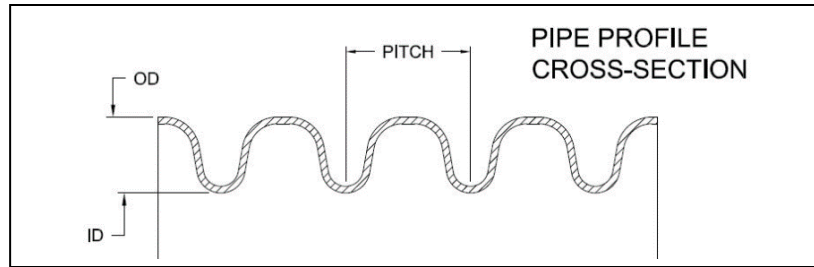
GOLDLINE pipe shall be joined using soil tight joints meeting AASHTO M252, M294. Gaskets, when used, shall be meet the requirements of ASTM D1056 Grade 2A2 and shall be installed by the manufacturer. GOLDLINE joints shall be assembled in accordance with the manufacturer's requirements.

Fittings

Fittings shall meet the requirements of AASHTO M252, M294. Standard fittings are available as listed in the Prinsco Product Catalog or on Prinsco's website www.prinsco.com.

Physical Pipe Dimensions

Nominal ID (in)	Approximate OD (in)	Available Lengths (ft)	Corrugation Pitch (in)	Approximate Weight/foot (lb)	Min. Pipe Stiffness @ 5% Deflection (psi)
3"	3.6	10, 100, 300, 5300	.67	0.2	35
4"	4.7	10, 100, 250, 3000	.67	0.3	35
5"	5.7	165, 2300	.67	0.5	35
6"	7.0	10, 20, 100, 1450	.80	0.7	35
8"	9.3	20, 390, 825	1.00	1.2	35
10"	11.9	20, 525	1.30	2.0	35
12"	14.5	20, 320	2.00	2.7	50
15"	17.8	20, 150	2.67	4.1	42



Installation

Pipe and fittings shall be installed in accordance with ASTM D2321 and Prinsco's published installation guidelines. Minimum cover for AASHTO H-25 loads shall be 12" and shall be measured from the top of the pipe to the bottom of flexible pavement or to the top of rigid pavement. 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:

- 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 D3350 – *Standard Specification for Polyethylene Plastics Pipe and Fittings Materials*
- ASTM D1056 – *Standard Specification for Flexible Cellular Materials – Sponge or Expanded Rubber*
- ASTM D2321 – *Standard Practice for Underground Installation of Thermoplastic Pipe for Sewers and Other Gravity-Flow Applications*