



**Scope**

This specification designates the requirements for 3- through 24- 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 24- 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 24- inch diameters as defined and described in ASTM D3350.

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

**Joint Performance**

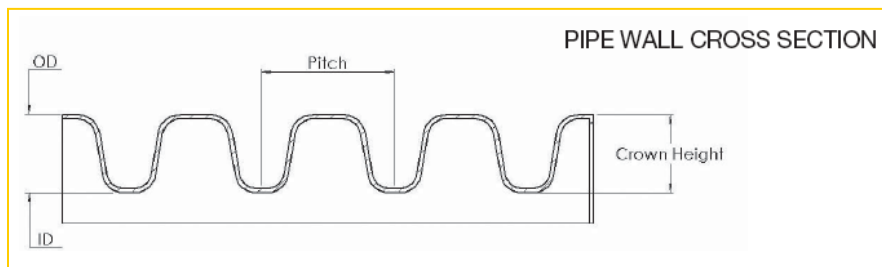
GOLDLINE pipe shall be joined using soil tight joints meeting AASHTO M252, M294. Gaskets, when used, shall be meet the requirements of ASTM D1056 Grade 2A2 and shall be installed by the manufacturer. GOLDLINE joints shall be assembled in accordance with the manufacturer’s requirements.

**Fittings**

Fittings shall meet the requirements of AASHTO M252, M294. Standard fittings are available as listed in the Prinsco Product Catalog.

**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	100, 300, 5300	.67	0.2	35
4"	4.6	10, 100, 250, 3000	.67	0.3	35
5"	5.7	165, 2300	.67	0.5	35
6"	7.1	100, 1450	.80	0.7	35
8"	9.5	825	1.00	1.3	35
10"	11.6	525	1.30	1.8	35
12"	14.2	10, 20	2.00	3.0	50
15"	17.7	10, 20	2.67	4.3	42
18"	21.6	11, 20	3.00	5.8	40
24"	28.4	11, 20	4.00	11.0	34





***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" to sub-grade in trafficked areas where flexible pavement is installed and shall be 12" to the surface of rigid pavement. Contact your local Prinsco representative or visit [www.prinsco.com](http://www.prinsco.com) for the latest installation guidelines.

***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 Diameter*
- AASHTO M252 – *Standard Specification for Corrugated Polyethylene Drainage Pipe*
- ASTM D3350 – *Standard Specification for Polyethylene Plastics Pipe and Fittings Materials*
- ASTM D2321 – *Standard Practice for Underground Installation of Thermoplastic Pipe for Sewers and Other Gravity-Flow Applications*
- ASTM D1056– *Standard Specification for Flexible Cellular Materials – Sponge or Expanded Rubber*