

Scope

This specification designates the requirements for the Prinsco *INTEGRITY*® Fittings for use in gravity flow applications.

Requirements

Prinsco *INTEGRITY* Fittings shall have annular exterior ribs with a smooth interior:

- 12- through 60- inch shall meet ASTM F2306 or AASHTO M294

Materials

INTEGRITY Fittings shall be manufactured with a seamless body and shall include integral bells formed on each stub. Fittings shall be manufactured using polyethylene meeting the minimum requirements of cell classification of 214300E as defined and described in ASTM D3350. The PE material shall meet the plaqued notched constant ligament-stress (NCLS) requirements as specified in AASHTO M294 and ASTM F2306. The average failure time of the five test specimens shall not be less than 24 hours.

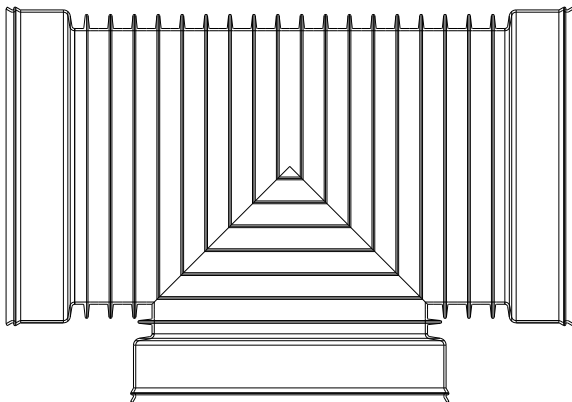
Joint Performance

The Prinsco *INTEGRITY* Fittings shall be joined to other fittings or pipe using gasketed watertight bell and spigot type joints meeting AASHTO M294 or ASTM F2306. The integral joints shall be watertight according to ASTM D3212. Gaskets shall meet the requirements of ASTM F477. An approved joint lubricant, available from the manufacturer, shall be applied to the bell and gasket during installation. Joints shall be assembled in accordance with the manufacturer's requirements to ensure installed watertight performance.

Fitting Configurations

Fitting are available in standard tee configuration and may be custom configured to meet specific project requirements. Standard configurations and non-standard configurations and their associated dimensions are available by contacting your local Prinsco Representative.

Typical Configuration



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" for 4- through 48-inch diameter *INTEGRITY* Fittings and 18" for 60-inch *INTEGRITY* Fittings. The minimum cover shall be measured from the top of the fitting 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 M294 – *Standard Specification for Corrugated Polyethylene Pipe, 300- to 1500-mm (12- to 60-in.) Diameter*
- AASHTO M 252 – *Standard Specification for Corrugated Polyethylene Drainage Pipe*
- ASTM F2306 – *Standard Specification for 12 to 60-in. (300 to 1500 mm) Annular Corrugated Profile-Wall Polyethylene (PE) Pipe and Fittings for Gravity-Flow Storm Sewer and Subsurface Drainage Applications*
- ASTM D3350 – *Standard Specification for Polyethylene Plastics Pipe and Fittings Materials*
- ASTM D477 – *Standard Specification for Elastomeric Seals (Gaskets) for Joining Plastic Pipe*
- ASTM D3212 – *Standard Specification for Joints for Drain and Sewer Plastic Pipes Using Flexible Elastomeric Seals*
- ASTM D2321 – *Standard Practice for Underground Installation of Thermoplastic Pipe for Sewers and Other Gravity-Flow Applications*
- ASTM F2487 – *Standard Practice for Underground Infiltration and Exfiltration Acceptance Testing of Installed Corrugated High Density Polyethylene Pipelines*