

PART 215 – CORRUGATED POLYPROPYLENE PIPE AND FITTINGS FOR STORMWATER

- 215.1 Where corrugated polypropylene (PP) pipe 15 inches in diameter through 60 inches in diameter are specified or required for storm sewer service, it shall conform to and be tested in accordance with the current edition of ASTM F2881/F2881M, Standard Specification for 12 to 60 in. [300 to 1500 mm] Polypropylene (PP) Dual Wall Pipe and Fittings for Non-Pressure Storm Sewer Applications, and the current edition of AASHTO M330, Standard Specification for Polypropylene Pipe, 300- to 1500-mm (12- to 60-in.) Diameter. Minimum cover shall be 2 feet. Pipe sizes of less than 15 inches are not allowed in closed public or private storm sewer systems.
- 215.1.1 If flowable fill is to be used for backfill in lieu of ODOT Type "A" Aggregate base, a pipe anchoring system must be utilized during installation. The anchoring system must be approved by the pipe manufacturer and the Engineer prior to use.
- 215.2 The PP sewer pipe shall be supplied in 13-foot or 20-foot laying lengths as specified.
- 215.3 PP pipes shall be joined with a gasketed integral bell and spigot joint meeting the requirements of ASTM F2881, for their respective diameters. Joints shall be watertight according to the requirements of the current edition of ASTM D3212, Standard Specification for Joints for Drain and Sewer Plastic Pipes Using Flexible Elastomeric Seals. Spigots shall have gaskets meeting the requirements of the current edition of ASTM F477, Standard Specification for Elastomeric Seals (Gaskets) for Joining Plastic Pipe. Gaskets shall be installed by the pipe manufacturer and covered with a removable, protective wrap to ensure the gasket is free from debris. Contractor shall use a joint lubricant, as recommended by the pipe manufacturer, on the gasket and bell during joint assembly.
- 215.3.1 Connections shall be watertight and conform to the current edition of ASTM C923/C923M, Standard Specification for Resilient Connectors Between Reinforced Concrete Manhole Structures, Pipes, and Laterals; and the current edition of ASTM F2510/F2510M, Standard Specification for Resilient Connectors Between Reinforced Concrete Manhole Structures and Corrugated Dual-and Triple-Wall Polyethylene and Polypropylene Pipes.
- 215.4 Fittings shall conform to ASTM F2881 for the respective diameters.
- 215.5 Field testing of joints as directed by the Engineer, shall be in accordance with the current edition of ASTM F2487, Standard Practice for Infiltration and Exfiltration Acceptance Testing of Installed Corrugated High-Density Polyethylene and Polypropylene Pipelines, or the current edition of ASTM F1417, Standard Practice for Installation Acceptance of Plastic Non-pressure Sewer Lines Using Low-pressure Air.
- 215.6 Installation shall be in accordance with the current edition of ASTM D2321 Standard Practice for Underground Installation of Thermoplastic Pipe for Sewers and Other Gravity-Flow Applications, and current City of Tulsa standards.

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The manufacturer shall maintain quality control through regularly scheduled testing in accordance with all referenced ASTM standards. Certifications shall be furnished that the material was manufactured, sampled, tested, and inspected in accordance with all applicable specifications. The certifications shall indicate the manufacturer's production code, from which plant location, machine and date of manufacture can be identified.

SECTION END