

05-13

**Large Diameter Pipe
Specification for Closed Profile PVC Sewer Pipe and Fittings**

DESCRIPTION

This item shall cover the requirements for PVC close profile sewer pipe and fittings with integral bell and elastomeric seal joints or plain end pipe with couplings in sizes 18-inch to 60-inch based on control inside diameter.

MATERIAL

1. Pipe: The pipe shall comply with all the minimum requirements of ASTM F 1803. The pipe shall be PVC plastic having a minimum cell classification of 12454C or 12364C as defined in ASTM D 1784.
2. Joints and Connections:
 - 2.1 Joints: Elastomeric seals pipe joints shall conform to ASTM F 477.
 - 2.2 Connections: Connecting secondary lines to the closed profile sewer pipe shall be by structure only. Connection to the structure shall be as recommended by the pipe manufacturer's instructions.
 - 2.3 Field Cut Connections: If the profile structure of the pipe is exposed during the cutting process, a Field Sealing Kit by the pipe manufacturer shall be used.
- 3 Fittings: The fittings shall be PVC plastic having a minimum cell classification of 12454C or 12364C as defined in ASTM D 1784.
4. Thickness: The minimum wall thickness of pipe and fittings shall meet the requirements given in Table 1, ASTM F 1803 when measured in accordance to ASTM D 2122.
5. Pipe Stiffness: The pipe stiffness at 5% deflection datum in accordance with ASTM D 2412. The pipe stiffness shall equal or exceed 46psi.

CERTIFICATION

1. As a basis of acceptance the manufacturer shall provide an independent certification which consists of a copy of the manufacturer's test report and accompanied by a copy of the test results that the pipe and fittings have been sampled, tested, and inspected in accordance with the provisions of the specification of ASTM D 1803 and meets all requirements.

FINAL ACCEPTANCE TESTING

1. The installation shall be tested for infiltration or exfiltration, and deflection as specified below:

1.1 Infiltration or exfiltration shall be tested as specified in San Antonio Water System Standard Specifications for Construction, Item No. 849, Air and Deflection Testing.

1.3 Deflection testing shall be tested as specified in San Antonio Water System Standard Specifications for Construction, Item No. 849, Air and Deflection Testing.

APPROVED MANUFACTURES LIST

Lamson Vylon Pipe

- Vylon Pipe