

**LARGE DIAMETER PIPE**

**SPECIFICATION FOR CLOSED PROFILE PVC SEWER PIPE AND FITTINGS**

**REVISED DECEMBER 2011**

**DESCRIPTION**

This item shall covers 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 requirement 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:**

a) **Joints:**

Elastomeric seals pipe joints shall conform to ASTM F 477.

b) **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 instructions.

c) **Field Cut Connections:**

If the profile structure of the pipe is exposed during the cutting process, a Field Sealing Kit by the pipe manufacture 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 a independent certification which consist 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.

**San Antonio Water System Material Standard Specifications**

05-13

**LARGE DIAMETER PIPE**

**SPECIFICATION FOR CLOSED PROFILE PVC SEWER PIPE AND FITTINGS**

**REVISED DECEMBER 2011**

**FINAL ACCEPTANCE TESTING**

- a) The installation shall be tested for infiltration or exfiltration, and deflection as specified below:
- b) Infiltration or exfiltration shall be tested as specified in San Antonio Water System Standard Specifications for Construction, Item No. 849, Air and Deflection Testing.
- c) 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

**Previous Specification Date:**

MAY 1992  
DECEMBER 2011