

05-14

**SAN ANTONIO WATER SYSTEM
SAN ANTONIO, TEXAS**

**SPECIFICATIONS FOR LARGE DIAMETER CORRUGATED PVC SEWER
PIPE AND FITTINGS**

Revised June 2002

DESCRIPTION

This item shall cover requirements for PVC corrugated profile sewer pipe with smooth interior and fittings with integral bell and elastomeric seals joints or plain end pipe with couplings in sizes 4-inch to 36-inch based on control inside diameter.

MATERIAL

1. Pipe: The pipe shall comply with all the minimum requirements of ASTM F 949. The pipe shall be PVC plastic having a minimum cell classification of 12454 or 13343 as defined in ASTM D 1784.
2. Fittings: The fittings shall comply with all the minimum requirements of ASTM F 949. The fittings shall be PVC plastic having a minimum cell classification of 12454 or 13343 as defined in ASTM D 1784.
- 2.1 Joints: Elastomeric seals pipe joints shall conform to ASTM F 477. Minimum joint tightness shall be 10.8 psi at 5% deflection datum in accordance with ASTM D 3212.
3. Thickness: The minimum wall thickness of pipe and fittings shall meet the requirements given in Table 1, ASTM F 949 when measured in accordance to ASTM D 2122.
4. Pipe Stiffness: The pipe stiffness at 5% deflection datum in accordance with ASTM D 2412 shall equal or exceed 46psi for pipe depths less than 14-feet. For sewer pipe 14-feet and deeper, the pipe stiffness at 5% deflection datum in accordance with ASTM D 2412 shall equal or exceed 115 psi.

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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 independent test results that the pipe and fittings have been sampled, tested and inspected in accordance with provisions of the specifications of ASTM F 949 and meets all requirements.
2. Pipe specified is not to be used Edwards Aquifer Recharge Zone.

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.

APPROVED MANUFACTURERS LIST

Manufacturer

Model

Contech Construction Products Inc.

A-2000 Pipe
A-2026 Pipe
A2 Liner Pipe