



Submittal Information for Spears® Manufacturing Company PVC SDR 35 Fabricated Sewer Fittings

Date: _____

GSPVCSDR35-0225

Job Name: _____ Location: _____

Engineer: _____ Contractor: _____

Scope:

This submittal covers Spears® PVC Standard Dimension Ratio (SDR) 35 Sewer Fittings intended for use in sewer and drainage applications where the application operating temperature does not exceed 140° F (63°C).

Product Specification:

All Spears® PVC Standard Dimension Ratio (SDR) 35 Sewer Fittings shall be fabricated in the U.S.A by Spears® Manufacturing Company from PVC pipe with a Type I with a minimum cell classification 12454 in accordance with ASTM D1784. Pipe stock shall be certified for potable water service by NSF International and manufactured in strict compliance to ASTM D3034 - Standard Specification for Type PSM Poly(Vinyl Chloride) (PVC) Sewer Pipe and Fittings or ASTM D1785- Standard Specification for Poly(Vinyl Chloride) (PVC) Plastic Pipe, Schedules 40, 80, and 120. All fabricated Spears® PVC SDR 35 Sewer Fittings shall meet or exceed the requirements of ASTM D3034 and the applicable performance criteria below:

Dimensional Conformance

- a. All sockets shall have an interference fit with applicable pipe.
- b. All change-of-direction fittings shall not exceed ± 1° variance in the specified angle.
- c. All standard stock fittings shall have specified cut lengths for all components in order to maintain dimensional consistency. Maximum overall deviations shall not exceed ± ½" for fittings to 12", ± 1" for sizes 14" & larger and all wyes.

Structural Conformance

- a. Burst Pressure - representative sample of fittings shall be tested to a minimum of two times the applicable maximum internal pressure rating in accordance with ASTM D 1599.
- b. Fabricated fittings shall meet the applicable requirements of the following Quality Assurance testing in accordance with the designated Standard Test Method.

Spears® PVC SDR 35 Sewer Fittings shall be capable of withstanding a vacuum of twenty-six inches of mercury (Hg) at 73° F (23° C) when subjected to a one hour test with a leak factor of not more than one inch of Hg.

Water pressure ratings for PVC fabricated SDR 35 Sewer Fittings shall be 117psi all sizes @ 73° F (23° C):
SDR35 Socket Flange (Steel Ring) 150psi
SDR35 Socket Flange (Plastic Ring) 50psi

Product Marking:

Spears® fabricated fittings are marked with a label that notes the part number of the item, as well as certifying it as a Spears® product.

Installation:

Installation for PVC SDR 35 Sewer Fittings shall comply with current installation instructions published by Spears® Manufacturing Company, established industry practices and all applicable code requirements. Buried pipe installed with Spears® PVC SDR35 Sewer Fittings shall be in accordance with ASTM 2321. The piping system shall be joined using a two-step solvent cement joining process with primer conforming to ASTM F656 and solvent cement conforming to ASTM D2564. The system shall be protected from ultra violet (UV) light exposure from the sun or other source and protected from any chemicals that are not compatible with the PVC materials including but not limited to fire stopping materials, plasticizers, incompatible thread sealants, etc.

NOTE: PVC piping systems are suitable for oil-free air handling to 25 psi, not for distribution of compressed air or gas.

Referenced Standards:

- ASTM D1599 – Short Term Hydrostatic Burst
- ASTM D1784 – Rigid Vinyl Compounds
- ASTM D1785 – PVC Schedule 40, 80 & 120 Pipe
- ASTM D2321 – Procedure for Underground Sewer and Gravity-Flow Pipe
- ASTM D2564 – Solvent Cements for PVC Pipe & Fittings
- ASTM D3034 – Standard Specification for Type PSM PVC Sewer Pipe and Fittings
- ASTM F656 – Primers for PVC Pipe & Fittings
- NSF® – NSF International-Potable Water 14/61

Approvals:

NSF® – NSF International-Potable Water

PROJECT APPROVAL

Approved: _____

PRINT

Sign: _____

Date: _____

