



Submittal Information for Spears® Manufacturing Company PVC Schedule 80 DWV Fabricated Fittings

GSPVCDWV80-0123

Date: _____

Job Name: _____ Location: _____

Engineer: _____ Contractor: _____

Scope:

This submittal covers Spears® PVC Schedule 80 PVC Drain, Waste & Vent (DWV) fabricated fittings intended for use in drainage applications where the application operating temperature does not exceed 140° F (63°C).

Product Specification:

All Spears® PVC Schedule 80 DWV 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 D1785. All PVC schedule 80 DWV fabricated fittings shall be produced in accordance with ASTM F1866 and applicable portions of Spears® General Specifications for Fabricated Fittings (FAB-7).

All Spears® PVC Schedule 80 DWV fabricated fittings shall meet or exceed 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 fabricated 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 fabricated 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 Schedule 80 DWV fabricated 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.

Product Marking:

Fittings or product packaging shall be labeled with the manufacturer's name, part number, size, description, product code and ASTM Specification Number, if applicable.

Installation:

Installation for PVC Schedule 80 DWV fabricated fittings shall comply with current installation instructions published by Spears® Manufacturing Company, however, Schedule 80 PVC DWV pattern fabricated fittings do not meet Model Plumbing Codes. Verify suitability with local code authority. Buried pipe installed with Spears® PVC Schedule 80 PVC DWV fabricated fittings shall be in accordance with ASTM 2774 and ASTM F1668. 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 D2564 – Solvent Cements for PVC Pipe & Fittings
- ASTM D2774 – Procedure for Buried Pressure Pipe
- ASTM F656 – Primers for PVC Pipe & Fittings
- ASTM F1668 – Procedures for Buried Plastic Pipe
- ASTM F1866 – Fabricated PVC DWV Fittings
- NSF® – NSF International-Potable Water

Approvals:

NSF® – NSF International-Potable Water

PROJECT APPROVAL

Approved: _____

PRINT

Sign: _____

Date: _____

