



# Submittal Information for Spears® Manufacturing Company EverTUFF® CPVC Schedule 40 and 80 Solid Wall Pipe & Fittings

Date: \_\_\_\_\_

GSCPVC4080-0922

Job Name: \_\_\_\_\_ Location: \_\_\_\_\_

Engineer: \_\_\_\_\_ Contractor: \_\_\_\_\_

**Scope:**

This submittal covers Spears® EverTUFF® CPVC Schedule 40 and 80 solid wall pipe and CPVC fittings intended for use in pressure applications where the application operating temperature does not exceed 200° F (93°C).

**Product Specification:**

All Spears® EverTUFF® CPVC Schedule 80 fittings shall be manufactured in the U.S.A. by Spears® Manufacturing Company from CPVC materials with a minimum cell classification of 23447 in accordance with ASTM Standard D 1784. All injection-molded fittings through 12" shall be manufactured in compliance to ASTM F439 and certified by NSF International for use with potable water service and conform to CSA B137.6 for use in Canada. All CPVC 14" through 24" fabricated fittings shall be produced in accordance with Spears® Specifications (FAB-7). All CPVC flanges shall be designed and manufactured to meet CL150 bolt pattern per ANSI Standard B16.5 and rated for a maximum internal pressure of 150 psi, non-shock at 73°F. All EverTUFF® CPVC Schedule 40 and schedule 80 pipe shall be manufactured in the U.S.A. by Spears® Manufacturing Company from a Type IV, Grade I Chlorinated Polyvinyl Chloride (CPVC) compound with a minimum cell classification of 23447 in accordance with ASTM D1784. The pipe shall be manufactured in strict compliance to ASTM F441, consistently meeting the quality assurance test requirements of this standard. All Spears® EverTUFF® CPVC pipe shall be immediately wrapped for protection. The CPVC pipe shall be provided with plain ends in 20 foot cut lengths. All Spears® EverTUFF® CPVC pipe shall be certified by NSF International for potable water applications and marked accordingly. EverTUFF® CPVC pipe tested dry shall be listed by ICC-ES PMG-1278 to ASTM E84/UL723 having a flame spread of less than 25 and smoke developed index of less than 50. (See PMG Listing No. PMG-1278 at www.icc-es-pmg.org). Spears® EverTUFF® CPVC schedule 80 pipe shall be certified to UL 2818 GREENGUARD GOLD by Underwriters Laboratories (UL). EverTUFF® CPVC schedule 40 and 80 pipe and 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:**

All pipe shall be marked CPVC Schedule shall be marked with NSF® Listing and ICC-ES PMG E84 25/50 rated marking and UL GREENGUARD GOLD marking. ASTM Standard and applicable pressure @ 73° F. (23°C). CPVC Schedule 80 fittings shall be engraved with markings required by ASTM F439 and bear an NSF® Listing for potable water.

**Installation:**

Installation for Spears® EverTUFF® CPVC Schedule Systems shall comply with current installation instructions published by Spears® Manufacturing Company, established industry practices and all applicable code requirements. Buried pipe shall be in accordance with ASTM D2774 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 F493. The EverTUFF® CPVC 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 CPVC materials including but not limited to fire stopping materials, plasticizers, incompatible thread sealants, etc.

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

**Referenced Standards:**

- ASTM D1784 – Rigid Vinyl Compounds
- ASTM D2774 – Procedure for Buried Pressure Pipe
- ASTM/E84/UL723 – Flame & Smoke Testing
- ASTM F439 – CPVC Schedule 80 Fittings
- ASTM F441 – CPVC Schedule 40, 80 Pipe
- ASTM F493 – Solvent Cements for CPVC Pipe & Fittings
- ASTM F656 – Primers for CPVC Pipe & Fittings
- ASTM F1668 – Procedures for Buried Plastic Pipe systems
- ANSI B16.5 – Pipe Flange Dimensions
- CSA B137.6 – CPVC pipe, tubing, and fittings for hot and cold water distribution

**Approvals:**

- NSF® – NSF International Water
- ICC-PMG 1278 – Listing for Plenum Use
- UL – GREENGUARD GOLD Certified UL 2818

**PROJECT APPROVAL**

Approved: \_\_\_\_\_  
PRINT

Sign: \_\_\_\_\_

Date: \_\_\_\_\_

