



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

GSCPVC4080-0718

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

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. 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](http://www.icc-es-pmg.org)). Spears® 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 40 or 80 and shall be marked with NSF® Listing and ICC-ES PMG E84 25/50 rated

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 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 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
- NSF International Standard 14/61- Potable Water
- ANSI B16.5 – Pipe Flange Dimensions

**Approvals:**

- NSF® – NSF International Water
- ICC-PMG 1278 – Listing for Plenum Use



# PVC & CPVC SCHEDULE 80 FITTINGS, UNIONS, TANK ADAPTERS, EXPANSION JOINTS & SADDLES

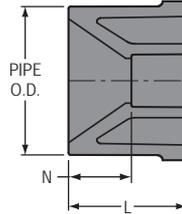


## REDUCER BUSHING

(continued)

### Flush Style

Spigot x Socket



Part Number		Size	L	N	Approx. Wt. (Lbs.)	
PVC	CPVC				PVC	CPVC
837-250	837-250C	2x1-1/4	1-11/16	7/16	.20	.23
837-251	837-251C	2x1-1/2	1-3/4	11/32	.15	.16
837-287 <sup>1</sup>	---	2-1/2x1/2	2-1/2	1-1/2	.54	---
837-288 <sup>1</sup>	---	2-1/2x3/4	2-17/32	1-15/32	.55	---
837-289	837-289C	2-1/2x1	2-1/32	29/32	.37	.39
837-290	837-290C	2-1/2x1-1/4	2-5/32	13/32	.43	.41
837-291	837-291C	2-1/2x1-1/2	2-5/32	3/4	.37	.40
837-292	837-292C	2-1/2x2	2-1/16	17/32	.23	.30
837-334 <sup>1</sup>	837-334C <sup>1</sup>	3x3/4	2-9/16	1-17/32	.69	.74
837-335	837-335C	3x1	2-9/32	1-1/8	.69	.70
837-336	837-336C	3x1-1/4	2-1/4	1	.63	.70
837-337	837-337C	3x1-1/2	2-9/32	7/8	.59	.67
837-338	837-338C	3x2	2-7/32	23/32	.47	.64
837-339	837-339C	3x2-1/2	2-5/16	1/4	.37	.43
837-415 <sup>1</sup>	---	4x1/2	3-1/16	2-5/32	1.31	---
837-416 <sup>1</sup>	837-416C <sup>1</sup>	4x3/4	2-27/32	1-27/32	1.25	1.37
837-417 <sup>1</sup>	---	4x1	3-1/16	1-1/8	1.31	---
837-418 <sup>1</sup>	837-418C <sup>1</sup>	4x1-1/4	3-9/16	1-11/16	1.33	1.38
837-419 <sup>1</sup>	---	4x1-1/2	4-7/8	3-7/16	1.23	---
837-420	837-420C	4x2	2-21/32	1-1/8	1.01	1.13
837-421	---	4x2-1/2	2-17/32	25/32	1.00	---
837-422	837-422C	4x3	2-9/16	11/16	.84	.86
837-490	837-490C	5x4	2-31/32	23/32	1.29	---
837-490F	837-490CF	5x4	3	3/4	1.41	1.50
837-524 <sup>1</sup>	---	6x3/4	4-1/2	3-1/2	3.45	---
837-525 <sup>1</sup>	837-525C <sup>1</sup>	6x1	3-31/32	2-13/16	3.13	3.28
837-526 <sup>1</sup>	---	6x1-1/4	4-7/16	2-3/4	3.22	---
837-528	837-528C	6x2	3-17/32	2-1/32	2.83	3.00
837-529 <sup>1</sup>	837-529C <sup>1</sup>	6x2-1/2	3-29/32	2-5/32	3.29	3.45
837-530	837-530C	6x3	3-17/32	2-1/8	2.84	3.05
837-532	837-532C	6x4	3-9/16	1-1/4	2.71	2.95
837-533F	837-533CF	6x5	3	3/8	1.76	1.94
837-534	---	6x5	3-1/2	7/8	1.93	---
837-578 <sup>1</sup>	837-578C <sup>1</sup>	8x2	4-15/16	3-3/8	8.64	8.99
837-580 <sup>1</sup>	837-580C <sup>1</sup>	8x3	5-1/8	3-1/4	8.68	8.81

<sup>1</sup> Outlet sized with bushing