



# Submittal Information for Spears® Manufacturing Company

## PVC Schedule 40 Solid Wall Pipe & Fitting System

GSPVC40-0718

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

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

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

### Scope:

This submittal covers Spears® PVC Schedule 40 solid wall pipe and PVC fittings intended for use in pressure applications where the application operating temperature does not exceed 140° F (63°C).

### Product Specification:

All Spears® PVC Schedule 40 fittings shall be manufactured in the U.S.A. by Spears® Manufacturing Company from PVC Type I with a minimum cell classification 12454 in accordance with ASTM D1784. All injection molded PVC Schedule 40 white fittings shall be certified for potable water service by NSF International and manufactured in strict compliance to ASTM D2466. All fabricated schedule 40 fittings shall be produced in accordance with ASTM F1866 and Spears® General Specifications for Fabricated Fittings. Spears® PVC schedule 40 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.

All Spears® PVC Schedule 40 pipe shall be manufactured in the U.S.A. by Spears® Manufacturing Company from a Type I, Grade I Polyvinyl Chloride (PVC) compound with a minimum cell classification of 12454 in accordance with ASTM D1784. The Schedule 40 pipe shall be manufactured in strict compliance to ASTM D1785 consistently meeting and/or exceeding the quality assurance test requirements of these standards. All Spears® EverTUFF® pipe shall be manufactured in the U.S.A. and immediately wrapped for protection. The pipe shall be provided with plain ends in 20 foot cut lengths. All Spears® Schedule 40 pipe shall be certified by NSF International for potable water applications and marked accordingly.

### Product Marking

All pipes shall be dual marked PVC schedule 40 and DWV and shall be marked with NSF® Listing, applicable ASTM Standard and applicable pressure @ 73° F. (23°C). PVC Schedule 40 Fittings shall be engraved with markings required by ASTM Standard and bear an NSF® Listing for potable water.

### Installation:

Installation for Spears® PVC Schedule 40 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 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 D1784 – Rigid Vinyl Compounds  
ASTM D1785 – PVC Schedule 40, 80 & 120 Pipe  
ASTM D2466 – PVC Schedule 40 Fittings  
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 International – Standard 14/61 Potable Water

### Approvals:

NSF® – NSF International Standard 14/61 – Potable Water

### Features:

Lightweight  
Corrosion Resistant  
Long Service Life

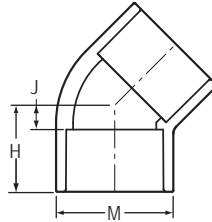


# PVC WHITE SCHEDULE 40 FITTINGS UNIONS & SADDLES



## 45° ELBOW (continued)

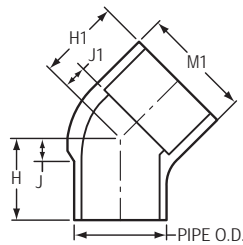
Socket x Socket



Part Number	Size	H	J	M	Approx. Wt. (Lbs.)
417-120	12	9-19/32	3-3/32	14-5/16	34.15
417-120F	12	9-19/32	3-11/32	13-9/16	17.39
417-140F	14	10-7/8	3-7/8	14-7/8	24.61
417-160F	16	12-1/2	4-1/2	17	34.85
417-180F	18	14-7/8	5-7/8	19-1/8	52.10
417-200F	20	16-1/2	6-1/2	21-3/16	68.92
417-240F	24	19-7/8	7-7/8	25-1/2	112.34

## 45° STREET ELBOW

Spigot x Socket



Part Number	Size	H	H1	J	J1	M1	Approx. Wt. (Lbs.)
427-005	1/2	1-9/32	1-9/32	11/32	13/32	1-3/16	.06
427-007	3/4	1-1/2	1-17/32	7/16	17/32	1-13/32	.09
427-010	1	1-19/32	1-21/32	13/32	17/32	1-23/32	.10
427-012	1-1/4	1-25/32	1-29/32	1/2	21/32	2-3/32	.22
427-015	1-1/2	2-1/32	2-3/32	19/32	23/32	2-11/32	.19
427-020	2	2	2	5/8	15/32	2-23/32	.30
427-025	2-1/2	2-5/8	2-5/8	3/4	7/8	3-11/32	.59
427-030	3	2-31/32	3-1/32	1	1-7/32	4-5/32	1.19
427-040	4	3-21/32	3-13/16	1-9/32	1-9/16	5-3/16	2.07
427-050	5	6-1/8	4-3/8	2-7/8	1-3/8	6-1/16	3.49
427-060	6	5-1/4	6-1/4	1-3/4	3	7-5/8	6.16
427-080	8	6-5/8	5-31/32	2-19/32	1-3/4	9-3/4	10.60