



Submittal Information for Spears® Manufacturing Company PVC Schedule 80 Solid Wall Pipe & Fitting System

Date: _____

GSPVC80-0718

Job Name: _____ Location: _____

Engineer: _____ Contractor: _____

Scope:

This submittal covers Spears® PVC Schedule 80 solid wall pipe and 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 80 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 Standard D1784. All injection molded PVC Schedule 80 fittings shall be certified for potable water service by NSF International manufactured in strict compliance to ASTM D2467. All fabricated fittings shall be produced in accordance with Spears® General Specifications for Fabricated Fittings (FAB-7). Spears® PVC Schedule 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. All PVC 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 unless otherwise noted.

All Spears® PVC Schedule 80 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 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 USA and immediately wrapped for protection. The pipe shall be provided with plain ends in 20 foot cut lengths. All Spears® EverTUFF® pipe shall be certified by NSF International for potable water applications and marked accordingly.

Product Marking

All Spears® pipe shall be marked PVC schedule 80 and shall be marked with NSF® Listing, ASTM Standard and applicable

pressure @ 73° F. (23°C). Spears® PVC Schedule 80 Fittings shall be engraved with markings required by ASTM Standard and bear an NSF® listing mark for potable water use.

Installation:

Installation for Spears® PVC Schedule 80 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 D2467 – PVC Schedule 80 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
ANSI B16.5 - Pipe Flange Dimensions

Approvals:

NSF® – NSF International Standard 14/61 Potable Water

Features:

Lightweight
Corrosion Resistant
Long Service Life



Nipples PVC, CPVC & PE Nipples



PVC Schedule 80 Nipple

Size	Threaded Both Ends	Threaded One End	Plain End	Std Pk	Mstr Pk	Disc Code
1/8" Diameter						
1/8XCLOSE	879-005 1.18	1879-005 1.18	879-005P 1.18	25	800	120
1/8X1-1/2	879-015 1.18	1879-015 1.18	879-015P 1.18	25	800	120
1/8X2	879-020 1.34	1879-020 1.34	879-020P 1.34	25	800	120
1/8X2-1/2	879-025 1.41	1879-025 1.41	879-025P 1.41	25	800	120
1/8X3	879-030 1.41	1879-030 1.41	879-030P 1.41	25	800	120
1/8X3-1/2	879-035 1.56	1879-035 1.56	879-035P 1.56	25	800	120
1/8X4	879-040 1.56	1879-040 1.56	879-040P 1.56	25	800	120
1/8X4-1/2	879-045 1.76	1879-045 1.76	879-045P 1.76	25	600	120
1/8X5	879-050 1.76	1879-050 1.76	879-050P 1.76	25	600	120
1/8X5-1/2	879-055 2.01	1879-055 2.01	879-055P 2.01	25	600	120
1/8X6	879-060 2.01	1879-060 2.01	879-060P 2.01	25	600	120
1/8X7	879-070 2.34	1879-070 2.34	879-070P 2.34	25	450	120
1/8X8	879-080 2.65	1879-080 2.65	879-080P 2.65	25	600	120
1/8X9	879-090 2.79	1879-090 2.79	879-090P 2.79	25	400	120
1/8X10	879-100 3.20	1879-100 3.20	879-100P 3.20	25	400	120
1/8X11	879-110 3.47	1879-110 3.47	879-110P 3.47	25	400	120
1/8X12	879-120 3.47	1879-120 3.47	879-120P 3.47	25	400	120
1/8X13	879-130 4.48	1879-130 4.48	879-130P 4.48	25	400	120
1/8X14	879-140 4.89	1879-140 4.89	879-140P 4.89	25	250	120
1/8X15	879-150 5.14	1879-150 5.14	879-150P 5.14	25	300	120
1/8X16	879-160 5.68	1879-160 5.68	879-160P 5.68	25	250	120
1/8X17	879-170 5.91	1879-170 5.91	879-170P 5.91	25	250	120
1/8X18	879-180 6.07	1879-180 6.07	879-180P 6.07	25	0	120
1/8X19	879-190 6.46	1879-190 6.46	879-190P 6.46	5	0	120
1/8X20	879-200 6.89	1879-200 6.89	879-200P 6.89	25	0	120
1/8X22	879-220 7.35	1879-220 7.35	879-220P 7.35	25	0	120
1/8X24	879-240 8.02	1879-240 8.02	879-240P 8.02	25	0	120
1/8X30	879-300 10.22	1879-300 10.22	879-300P 10.22	25	0	120
1/8X36	879-360 12.04	1879-360 12.04	879-360P 12.04	25	0	120
1/8X42	879-420 14.02	1879-420 14.02	879-420P 14.02	25	0	120
1/8X48	879-480 16.03	1879-480 16.03	879-480P 16.03	25	0	120

1/4" Diameter

1/4XCLOSE	880-005 1.23	1880-005 1.23	880-005P 1.23	25	1200	120
1/4X1-1/2	880-015 1.23	1880-015 1.23	880-015P 1.23	25	1200	120
1/4X2	880-020 1.51	1880-020 1.51	880-020P 1.51	25	500	120
1/4X2-1/2	880-025 1.51	1880-025 1.51	880-025P 1.51	25	500	120
1/4X3	880-030 2.01	1880-030 2.01	880-030P 2.01	25	550	120

PVC Schedule 80 Nipple (continued)

Size	Threaded Both Ends	Threaded One End	Plain End	Std Pk	Mstr Pk	Disc Code
1/4" Diameter						
1/4X3-1/2	880-035 2.01	1880-035 2.01	880-035P 2.01	25	500	120
1/4X4	880-040 2.34	1880-040 2.34	880-040P 2.34	25	300	120
1/4X4-1/2	880-045 2.34	1880-045 2.34	880-045P 2.34	25	250	120
1/4X5	880-050 2.54	1880-050 2.54	880-050P 2.54	25	250	120
1/4X5-1/2	880-055 2.54	1880-055 2.54	880-055P 2.54	25	250	120
1/4X6	880-060 2.65	1880-060 2.65	880-060P 2.65	25	250	120
1/4X7	880-070 2.74	1880-070 2.74	880-070P 2.74	25	250	120
1/4X8	880-080 2.89	1880-080 2.89	880-080P 2.89	25	250	120
1/4X9	880-090 2.97	1880-090 2.97	880-090P 2.97	25	250	120
1/4X10	880-100 3.04	1880-100 3.04	880-100P 3.04	25	250	120
1/4X11	880-110 3.26	1880-110 3.26	880-110P 3.26	25	250	120
1/4X12	880-120 3.59	1880-120 3.59	880-120P 3.59	25	250	120
1/4X13	880-130 5.22	1880-130 5.22	880-130P 5.22	25	250	120
1/4X14	880-140 5.26	1880-140 5.26	880-140P 5.26	25	250	120
1/4X15	880-150 5.58	1880-150 5.58	880-150P 5.58	25	500	120
1/4X16	880-160 7.02	1880-160 7.02	880-160P 7.02	25	250	120
1/4X17	880-170 7.38	1880-170 7.38	880-170P 7.38	25	300	120
1/4X18	880-180 7.53	1880-180 7.53	880-180P 7.53	25	300	120
1/4X19	880-190 7.89	1880-190 7.89	880-190P 7.89	25	300	120
1/4X20	880-200 8.01	1880-200 8.01	880-200P 8.01	25	200	120
1/4X22	880-220 8.38	1880-220 8.38	880-220P 8.38	25	300	120
1/4X24	880-240 8.53	1880-240 8.53	880-240P 8.53	25	200	120
1/4X30	880-300 10.47	1880-300 10.47	880-300P 10.47	25	0	120
1/4X36	880-360 12.68	1880-360 12.68	880-360P 12.68	25	0	120
1/4X42	880-420 14.92	1880-420 14.92	880-420P 14.92	25	0	120
1/4X48	880-480 16.59	1880-480 16.59	880-480P 16.59	25	0	120

3/8" Diameter

3/8XCLOSE	881-005 1.28	1881-005 1.28	881-005P 1.28	25	800	120
3/8X1-1/2	881-015 1.28	1881-015 1.28	881-015P 1.28	25	800	120
3/8X2	881-020 1.64	1881-020 1.64	881-020P 1.64	25	600	120
3/8X2-1/2	881-025 1.64	1881-025 1.64	881-025P 1.64	25	600	120
3/8X3	881-030 1.64	1881-030 1.64	881-030P 1.64	25	400	120
3/8X3-1/2	881-035 2.34	1881-035 2.34	881-035P 2.34	25	400	120
3/8X4	881-040 2.54	1881-040 2.54	881-040P 2.54	25	300	120
3/8X4-1/2	881-045 2.54	1881-045 2.54	881-045P 2.54	25	250	120
3/8X5	881-050 2.74	1881-050 2.74	881-050P 2.74	25	250	120
3/8X5-1/2	881-055 2.74	1881-055 2.74	881-055P 2.74	25	250	120