



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
1-1/2" Diameter						
1-1/2XCLOSE	886-005 2.48	1886-005 2.48	886-005P 2.48	25	0	120
1-1/2X2	886-020 2.74	1886-020 2.74	886-020P 2.74	25	0	120
1-1/2X2-1/2	886-025 2.91	1886-025 2.91	886-025P 2.91	25	0	120
1-1/2X3	886-030 3.13	1886-030 3.13	886-030P 3.13	25	0	120
1-1/2X3-1/2	886-035 3.47	1886-035 3.47	886-035P 3.47	25	0	120
1-1/2X4	886-040 4.16	1886-040 4.16	886-040P 4.16	25	0	120
1-1/2X4-1/2	886-045 4.16	1886-045 4.16	886-045P 4.16	25	0	120
1-1/2X5	886-050 4.67	1886-050 4.67	886-050P 4.67	25	0	120
1-1/2X5-1/2	886-055 4.67	1886-055 4.67	886-055P 4.67	25	0	120
1-1/2X6	886-060 5.01	1886-060 5.01	886-060P 5.01	25	0	120
1-1/2X7	886-070 5.59	1886-070 5.59	886-070P 5.59	25	0	120
1-1/2X8	886-080 6.17	1886-080 6.17	886-080P 6.17	25	0	120
1-1/2X9	886-090 6.54	1886-090 6.54	886-090P 6.54	25	0	120
1-1/2X10	886-100 6.89	1886-100 6.89	886-100P 6.89	25	0	120
1-1/2X11	886-110 7.41	1886-110 7.41	886-110P 7.41	25	0	120
1-1/2X12	886-120 8.32	1886-120 8.32	886-120P 8.32	25	0	120
1-1/2X13	886-130 8.54	1886-130 8.54	886-130P 8.54	25	0	120
1-1/2X14	886-140 9.25	1886-140 9.25	886-140P 9.25	25	0	120
1-1/2X15	886-150 9.65	1886-150 9.65	886-150P 9.65	25	0	120
1-1/2X16	886-160 10.41	1886-160 10.41	886-160P 10.41	25	0	120
1-1/2X17	886-170 10.64	1886-170 10.64	886-170P 10.64	25	0	120
1-1/2X18	886-180 11.33	1886-180 11.33	886-180P 11.33	25	0	120
1-1/2X19	886-190 12.58	1886-190 12.58	886-190P 12.58	25	0	120
1-1/2X20	886-200 12.98	1886-200 12.98	886-200P 12.98	25	0	120
1-1/2X22	886-220 13.13	1886-220 13.13	886-220P 13.13	25	0	120
1-1/2X24	886-240 13.51	1886-240 13.51	886-240P 13.51	25	0	120
1-1/2X30	886-300 18.43	1886-300 18.43	886-300P 18.43	5	0	120
1-1/2X36	886-360 19.34	1886-360 19.34	886-360P 19.34	5	0	120
1-1/2X42	886-420 25.96	1886-420 25.96	886-420P 25.96	5	0	120
1-1/2X48	886-480 27.44	1886-480 27.44	886-480P 27.44	5	0	120

2" Diameter

2XCLOSE	887-005 3.26	1887-005 3.26	887-005P 3.26	25	0	120
2X2	887-020 3.79	1887-020 3.79	887-020P 3.79	25	0	120
2X2-1/2	887-025 3.84	1887-025 3.84	887-025P 3.84	25	0	120
2X3	887-030 3.89	1887-030 3.89	887-030P 3.89	25	0	120
2X3-1/2	887-035 4.54	1887-035 4.54	887-035P 4.54	25	0	120
2X4	887-040 5.39	1887-040 5.39	887-040P 5.39	25	0	120

PVC Schedule 80 Nipple (continued)

Size	Threaded Both Ends	Threaded One End	Plain End	Std Pk	Mstr Pk	Disc Code
2" Diameter						
2X4-1/2	887-045 5.39	1887-045 5.39	887-045P 5.39	25	0	120
2X5	887-050 5.83	1887-050 5.83	887-050P 5.83	25	0	120
2X5-1/2	887-055 5.83	1887-055 5.83	887-055P 5.83	25	0	120
2X6	887-060 7.15	1887-060 7.15	887-060P 7.15	25	0	120
2X7	887-070 7.41	1887-070 7.41	887-070P 7.41	25	0	120
2X8	887-080 7.91	1887-080 7.91	887-080P 7.91	25	0	120
2X9	887-090 8.54	1887-090 8.54	887-090P 8.54	25	0	120
2X10	887-100 9.25	1887-100 9.25	887-100P 9.25	25	0	120
2X11	887-110 9.68	1887-110 9.68	887-110P 9.68	25	0	120
2X12	887-120 10.43	1887-120 10.43	887-120P 10.43	25	0	120
2X13	887-130 10.83	1887-130 10.83	887-130P 10.83	25	0	120
2X14	887-140 11.04	1887-140 11.04	887-140P 11.04	20	0	120
2X15	887-150 11.95	1887-150 11.95	887-150P 11.95	20	0	120
2X16	887-160 12.75	1887-160 12.75	887-160P 12.75	20	0	120
2X17	887-170 13.92	1887-170 13.92	887-170P 13.92	20	0	120
2X18	887-180 15.53	1887-180 15.53	887-180P 15.53	20	0	120
2X19	887-190 16.63	1887-190 16.63	887-190P 16.63	25	0	120
2X20	887-200 16.86	1887-200 16.86	887-200P 16.86	20	0	120
2X22	887-220 17.29	1887-220 17.29	887-220P 17.29	20	0	120
2X24	887-240 17.38	1887-240 17.38	887-240P 17.38	20	0	120
2X30	887-300 22.44	1887-300 22.44	887-300P 22.44	5	0	120
2X36	887-360 29.81	1887-360 29.81	887-360P 29.81	5	0	120
2X42	887-420 36.26	1887-420 36.26	887-420P 36.26	5	0	120
2X48	887-480 38.37	1887-480 38.37	887-480P 38.37	5	0	120

2-1/2" Diameter

2-1/2XCLOSE	888-005 11.17	1888-005 11.17	888-005P 11.17	25	0	120
2-1/2X2-1/2	888-025 12.73	1888-025 12.73	888-025P 12.73	25	0	121
2-1/2X3	888-030 12.73	1888-030 12.73	888-030P 12.73	30	0	120
2-1/2X3-1/2	888-035 14.55	1888-035 14.55	888-035P 14.55	25	0	120
2-1/2X4	888-040 16.46	1888-040 16.46	888-040P 16.46	25	0	120
2-1/2X4-1/2	888-045 16.46	1888-045 16.46	888-045P 16.46	25	0	120
2-1/2X5	888-050 18.54	1888-050 18.54	888-050P 18.54	25	0	120
2-1/2X5-1/2	888-055 18.54	1888-055 18.54	888-055P 18.54	25	0	120
2-1/2X6	888-060 20.31	1888-060 20.31	888-060P 20.31	25	0	120
2-1/2X7	888-070 21.40	1888-070 21.40	888-070P 21.40	16	0	120
2-1/2X8	888-080 22.44	1888-080 22.44	888-080P 22.44	16	0	120
2-1/2X9	888-090 25.96	1888-090 25.96	888-090P 25.96	16	0	120