

SUBMITTAL FOR CHARLOTTE PIPE® PVC SCHEDULE 40 PRESSURE PIPE AND FITTING SYSTEM

Date: _____

Job Name: _____

Location: _____

Engineer: _____

Contractor: _____

► Scope:

This specification covers PVC Schedule 40 pipe and fittings for pressure applications. This system is intended for pressure applications where the operating temperature will not exceed 140° F.

► Specification:

Pipe and fittings shall be manufactured from virgin rigid PVC (polyvinyl chloride) vinyl compounds with a cell class of 12454 as identified in ASTM D 1784.

PVC Schedule 40 pipe shall be Iron Pipe Size (IPS) conforming to ASTM D 1785. Injection molded PVC Schedule 40 fittings shall conform to ASTM D 2466. Pipe and fittings shall be manufactured as a system and be the product of one manufacturer. All pipe and fittings shall be manufactured in the United States. Pipe and fittings shall conform to NSF International Standard 61 and the health-effects portion of NSF Standard 14.

► Installation:

Installation shall comply with the latest installation instructions published by Charlotte Pipe and Foundry and shall conform to all applicable plumbing, fire, and building code requirements. Buried pipe shall be installed in accordance with ASTM F 1668. Solvent cement joints shall be made in a two-step process with primer conforming to ASTM F 656 and solvent cement conforming to ASTM D 2564. The system shall be protected from chemical agents, fire-stopping materials, thread sealant, plasticized-vinyl products or other aggressive chemical agents not compatible with PVC compounds. The system shall be hydrostatically tested after installation. **WARNING!** Never test with or transport/store compressed air or gas in PVC pipe or fittings. Doing so can result in explosive failures and cause severe injury or death.

► Referenced Standards:

ASTM D 1784: Rigid Vinyl Compounds
 ASTM D 1785: PVC Plastic Pipe, Schedule 40
 ASTM D 2466: PVC Plastic Fittings, Schedule 40
 ASTM D 2564: Solvent Cements for PVC
 Pipe and Fittings

ASTM F 1668: Procedures for Buried Plastic Pipe
 NSF Standard 14: Plastic Piping Components & Related Materials
 NSF Standard 61: Drinking Water System Components –
 Health Effects



Schedule 40 Tapered Socket Dimensions

PVC SCHEDULE 40 - ASTM D 2466

Nominal Size	Schedule 80 and Schedule 40 Socket Diameter			Schedule 80 Socket Length C (Minimum)	Schedule 40 Socket Length C (Minimum)
	Entrance A	Bottom B	Tolerance		
1/2	0.848	0.836	±0.004	0.875	0.688
3/4	1.058	1.046	±0.004	1.000	0.719
1	1.325	1.310	±0.005	1.125	0.875
1 1/4	1.670	1.655	±0.005	1.250	0.938
1 1/2	1.912	1.894	±0.006	1.375	1.094
2	2.387	2.369	±0.006	1.500	1.156
2 1/2	2.889	2.868	±0.007	1.750	1.750
3	3.516	3.492	±0.008	1.875	1.875
4	4.518	4.491	±0.009	2.250	2.000
6	6.647	6.614	±0.011	3.000	3.000
8	8.655	8.610	±0.015	4.000	4.000
10	10.780	10.735	±0.015	5.000	5.000
12	12.780	12.735	±0.015	6.000	6.000

PIPE REFERENCE GUIDE

Product	Sizes Available															
	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14	16
PVC Schedule 40	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Not all fitting patterns shown

PVC Well Casing

PVC SCHEDULE 40 (WHITE)		BELL END WELL CASING		PVC 1120		ASTM F 480	
PART NO.	NOM. SIZE	UPC # 611942-	AVG. OD (IN.)	MIN. WALL (IN.)	BELL DEPTH (IN.)	WT. PER 100 FT. (LBS.)	
PVC 4020B	2" x 20'	03932	2.375	.154	4.00	69.5	
PVC 4025B	2 1/2" x 20'	04206	2.875	.203	4.00	110.0	
PVC 4030B	3" x 20'	03933	3.500	.216	4.00	144.2	
PVC 9400B	4" x 20'	03964	4.500	.237	5.00	210.6	
PVC 9600B	6" x 20'	03965	6.625	.280	6.50	373.2	
PVC 9800B	8" x 20'	03967	8.625	.322	7.00	564.0	
PVC 7910B	10" x 20'	03960	10.750	.365	9.00	781.4	
PVC 7912B	12" x 20'	03962	12.750	.406	10.00	1033.2	
PVC 7914B	14" x 20'	04863	14.000	.437	10.00	1221.8	
PVC 7916B	16" x 20'	04929	16.000	.500	10.00	1594.5	

PVC SDR Pipe

PR 200	PVC 1120	BELL END		ASTM D 2241		SDR 21	
PART NO.	NOM. SIZE	UPC # 611942-	AVG. OD (IN.)	MIN. WALL (IN.)	MAX WORK PRESSURE AT 23° C OR 73° F	BELL DEPTH (IN.)	WT. PER 100 FT. (LBS.)
PVC 23155B	*1 1/2" x 20'	03991	.840	.062	315 PSI	2.00	10.0
PVC 20007B	3/4" x 10'	10742	1.050	.060	200 PSI	2.25	11.8
PVC 20007B	3/4" x 20'	03984	1.050	.060	200 PSI	2.25	11.8
PVC 20010B	1" x 20'	03986	1.315	.063	200 PSI	2.50	15.7
PVC 20012B	1 1/4" x 20'	03987	1.660	.079	200 PSI	2.75	25.5
PVC 20015B	1 1/2" x 20'	03988	1.900	.090	200 PSI	3.00	32.4
PVC 20020B	2" x 20'	03989	2.375	.113	200 PSI	4.00	50.8
PVC 20025B	2 1/2" x 20'	12976	2.875	.137	200 PSI	4.00	75.7
PVC 20030B	3" x 20'	12977	3.500	.167	200 PSI	4.00	112.4
PVC 20040B	4" x 20'	12978	4.500	.214	200 PSI	4.00	185.2
PVC 20060B	6" x 20'	12979	6.625	.316	200 PSI	6.00	402.6

*PR 315 / SDR 13.5


WARNING

Testing with or use of compressed air or gas in PVC / ABS / CPVC pipe or fittings can result in explosive failures and cause severe injury or death.

- NEVER test with or transport/store compressed air or gas in PVC / ABS / CPVC pipe or fittings.
- NEVER test PVC / ABS / CPVC pipe or fittings with compressed air or gas, or air over water boosters.
- ONLY use PVC / ABS / CPVC pipe or fittings for water or approved chemicals.
- Refer to warnings on PFFA's website and ASTM D 1785.

