

SUBMITTAL FOR CHARLOTTE PIPE® CHEMDRAIN® CPVC CHEMICAL WASTE SCHEDULE 40 PIPE AND FITTINGS

Date: _____

Job Name: _____

Location: _____

Engineer: _____

Contractor: _____

► Scope:

This specification covers CPVC Schedule 40 pipe and fittings for chemical waste drain applications. ChemDrain is intended for use in non-pressure drain applications where the temperature will not exceed 220°F.

► Specification:

Pipe and fittings shall be manufactured as a system, be the product of one manufacturer and be manufactured in the United States. All pipe, fittings, and solvent cement shall be supplied together as a system, as Charlotte Pipe ChemDrain chemical waste system manufactured by Charlotte Pipe and Foundry. Pipe and fittings shall conform to the National Sanitation Foundation Standard (NSF) 14.

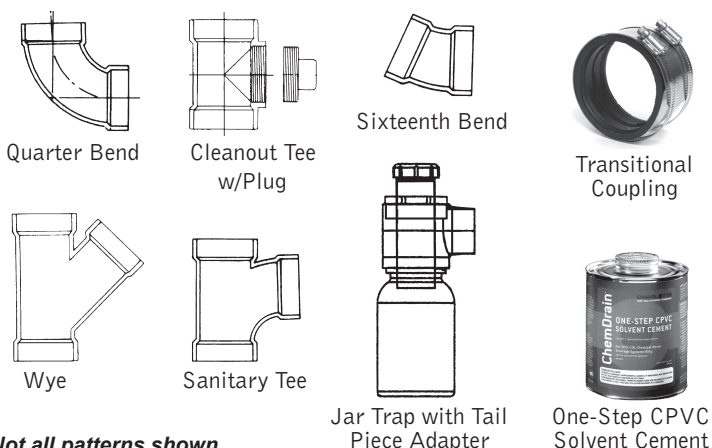
Special drainage systems for corrosive chemical or acid waste shall be manufactured by CPVC Type IV, Grade I, ASTM Cell Class 23447. All system components shall be certified by NSF International for use in chemical waste drainage systems and bear the mark NSF-cw. All system piping shall be Schedule 40 CPVC produced to the dimensional requirements of ASTM F 2618 and the manufacturer's specifications. All pipe and fittings shall be CPVC drainage patterns meeting the requirements of ASTM F 2618 and the manufacturer's specifications, as applicable.

► 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 D 2321 and ASTM F 1668. Solvent welded joints shall be made with ChemDrain One-Step solvent cement conforming to ASTM F 493. The system shall be protected from items that are not compatible with CPVC compounds; materials like thread sealants, plasticized vinyl products, fire stopping devices, or other aggressive chemical agents. System shall be hydrostatically tested after installation. **WARNING!** Use of compressed air or gas in CPVC pipe or fittings can result in explosive failures and cause severe injury or death.

► Referenced Standards:

ASTM D 1784	Rigid CPVC Vinyl Compounds
ASTM D 2321	Underground Installation of Thermoplastic Pipe (non-pressure applications)
ASTM F 493	Solvent Cements for CPVC Pipe and Fittings
ASTM F 1668	Procedures for Buried Plastic Pipe
ASTM F 2618	Standard for Chlorinated Poly (Vinyl Chloride) Chemical Waste Drainage Systems
NSF Standard 14	Plastic Piping Components and Related Materials



Not all patterns shown

ChemDrain® CPVC Pipe

ChemDrain® CPVC Schedule 40 Pipe Type IV, Grade 1



ASTM F 2618

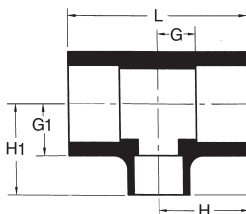
CPVC SCHEDULE 40 (LIGHT GRAY)			PLAIN END		CPVC 4120	
PART NO.	NOM. SIZE	UPC # 611942-	QTY. PER SKID	AVG. OD (IN.)	MIN. WALL (IN.)	WT. PER 100 FT. (LBS.)
AW 14015	1 1/2" x 10'	10732	1650'	1.900	.145	55.3
AW 14002	2" x 10'	10733	1110'	2.375	.154	74.3
AW 14003	3" x 10'	10734	1130'	3.500	.216	154.2
AW 14004	4" x 10'	10735	670'	4.500	.237	219.6
AW 14006	6" x 10'	10736	330'	6.625	.280	386.1
AW 14008	8" x 10'	11363	180'	8.625	.322	581.1

Charlotte Pipe and Foundry Company • P.O. Box 35430 Charlotte, NC 28235 • (800) 438-6091 • www.charlottepipe.com

Reducing Tee

S x S x S

PVC PART NO. 2400



Size	Universal Part Number	L	H	G	H1	G1	Apprx. Wt. (Lbs.)
1/2 x 1/2 x 3/4	401-074	2 7/8	1 7/16	1 1/16	1 17/32	1 7/32	0.082
3/4 x 1/2 x 3/4	401-095	3 1/4	*	3/4	1 21/32	2 1/32	0.106
3/4 x 3/4 x 1/2	401-101	3 1/8	1 9/16	9/16	1 3/8	5/8	0.106
3/4 x 3/4 x 1	401-102	3 5/8	1 13/16	1 3/16	1 25/32	2 1/32	0.134
1 x 1 x 1/2	401-130	3 3/8	1 11/16	9/16	1 5/8	7/8	0.134
1 x 1 x 3/4	401-131	3 9/16	1 25/32	5/8	1 13/16	1 3/16	0.148
1 1/4 x 1 1/4 x 1/2	401-166	3 1/2	1 3/4	1/2	1 5/8	7/8	0.196
1 1/4 x 1 1/4 x 3/4	401-167	3 13/16	1 29/32	1 1/16	2	1	0.226
1 1/4 x 1 1/4 x 1	401-168	4 1/16	2 1/32	1 3/16	2 1/8	1	0.256
1 1/2 x 1 1/2 x 1/2	401-209	3 3/4	1 7/8	9/16	1 7/8	1 1/8	0.234
1 1/2 x 1 1/2 x 3/4	401-210	3 15/16	1 31/32	2 1/32	2	1	0.256
1 1/2 x 1 1/2 x 1	401-211	4 1/4	2 1/8	1 3/16	2 7/32	1 3/32	0.294
2 x 2 x 3/4	401-248	4 1/16	2 1/32	2 1/32	2 3/8	1 3/8	0.320
2 x 2 x 1	401-249	4 3/8	2 3/16	1 3/16	2 17/32	1 3/8	0.383
2 x 2 x 1 1/4	401-250	4 3/4	2 3/8	1	2 5/8	1 3/8	0.436
2 x 2 x 1 1/2	401-251	5	2 1/2	1 1/8	2 11/16	1 3/8	0.479
3 x 3 x 2	401-338	6 11/16	3 11/32	1 11/32	3 3/16	1 13/16	1.100
4 x 4 x 2	401-420	6 13/16	3 13/32	1 11/32	3 7/8	2 1/2	1.594
4 x 4 x 3	401-422	8 1/8	4 1/16	2	4 3/8	2 3/8	1.982
6 x 6 x 4	401-532	12 1/16	6 1/32	2 17/32	5 5/8	3 9/16	4.900

* H dimension on left side = 1 1/2

H dimension on right side = 1 1/4