



Product Specification

System: ChemDrain® CPVC Chemical Waste Schedule 40 Pipe and Fittings

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 National Sanitation Foundation Standard (NSF) 14.

Special drainage systems for corrosive chemical or acid waste shall be manufactured from 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 fittings shall be CPVC drainage patterns meeting the requirements of ASTM F 2618 and the manufacturer's specifications, as applicable.

Installation shall comply with the latest installation instructions published by Charlotte Pipe and Foundry and shall conform to all local 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. Systems shall be hydrostatically tested after installation. Testing with compressed air or gas is not recommended. **WARNING!** Use of compressed air or gas in CPVC pipe or fittings can result in explosive failures and cause severe injury or death.

Significance and Use:

The requirements of this specification are intended to provide pipe, fittings and drains suitable for use in chemical waste disposal.

Referenced Standards*:

ASTM C 1460	Standard Specification for Shielded Transition Couplings for use with Dissimilar DWV Pipe and Fittings Above Ground
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 Fitting
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

* Note: Latest revision of each standard applies.

ChemDrain is a registered trademark of Charlotte Pipe and Foundry Company.

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