

Product Specification

System: ChemDrain® with Corzan® CPVC Chemical Waste Pipe and Fittings

Scope: This specification covers CPVC Schedule 40 pipe and fittings for chemical waste

drain applications. ChemDrain with Corzan® 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 NSF International Standard 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: 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

Charlotte Pipe and ChemDrain are registered trademarks of Charlotte Pipe and Foundry Company.

Corzan is a registered trademark of Lubrizol Advanced Materials.

^{*} Note: Latest revision of each standard applies.

TERMS AND CONDITIONS OF SALE

Terms and Conditions of Sale can be found at https://charlottepipe.com/terms_and_conditions.aspx

LIMITED WARRANTY

Charlotte Pipe and Foundry Company® (Charlotte Pipe®) Products are warranted to be free from manufacturing defects and to conform to currently applicable ASTM standards for a period of five (5) years from date of delivery. Buyer's remedy for breach of this warranty is limited to replacement of, or credit for, the defective product. This warranty excludes any expense for removal or reinstallation of any product and any other incidental, consequential, or punitive damages. **This limited warranty is the only warranty made by seller and is expressly in lieu of all other warranties, express and implied, including any warranties of merchantability and fitness for a particular purpose.** No statement, conduct or description by Charlotte Pipe or its representative, in addition to or beyond this Limited Warranty, shall constitute a warranty. This Limited Warranty may only be modified in writing signed by an officer of Charlotte Pipe.

This Limited Warranty will not apply if:

- 1) The Products are used for purposes other than their intended purpose as defined by local plumbing and building codes, and the applicable ASTM standard.
- 2) The Products are not installed in good and workmanlike manner consistent with normal industry standards; installed in compliance with the latest instructions published by Charlotte Pipe and good plumbing practices; and installed in conformance with all applicable plumbing, fire and building code requirements.
- 3) This limited warranty does not apply when the products of Charlotte Pipe are used with the products of other manufacturers that do not meet the applicable ASTM or CISPI standards or that are not marked in a manner to indicate the entity that manufactured them.
- 4) In hubless cast iron installations, this warranty will not apply if products are joined with unshielded hubless couplings. Charlotte Pipe requires that its hubless cast iron pipe and fittings be joined only with shielded hubless couplings manufactured in accordance with CISPI 310, ASTM C 1277 and certified by NSF® International or with Heavy Duty Couplings meeting ASTM C 1540.
- 5) The Products fail due to defects or deficiencies in design, engineering, or installation of the piping system of which they are a part.
- 6) The Products have been the subject of modification; misuse; misapplication; improper maintenance or repair; damage caused by the fault or negligence of anyone other than Charlotte Pipe; or any other act or event beyond the control of Charlotte Pipe.
- 7) The Products fail due to the freezing of water in the Products.
- 8) The Products fail due to contact with chemical agents, fire stopping materials, thread sealant, plasticized vinyl products, or other aggressive chemical agents that are not compatible.
- 9) Pipe outlets, sound attenuation systems or other devices are permanently attached to the surface of Charlotte® PVC, ABS or CPVC products with solvent cement or adhesive glue.

Charlotte Pipe products are manufactured to the applicable ASTM or CISPI standard. Charlotte Pipe and Foundry **cannot** accept responsibility for the performance, dimensional accuracy, or compatibility of pipe, fittings, gaskets, or couplings not manufactured or sold by Charlotte Pipe and Foundry.

This Limited Warranty will not apply unless written notice of a claim is mailed to Charlotte Pipe at the address below within 30 days of discovery of the allegedly defective product.

Any Charlotte Pipe products alleged to be defective **must** be made available to Charlotte Pipe at the following address for verification, inspection and determination of cause:

Charlotte Pipe and Foundry Company Attention: Technical Services 2109 Randolph Road Charlotte, North Carolina 28207

Purchaser must obtain a return materials authorization and instructions for return shipment to Charlotte Pipe of any product claimed defective or shipped in error.

Any Charlotte Pipe product **proved** to be defective in manufacture will be replaced F.O.B. point of original delivery, or credit will be issued, at the discretion of Charlotte Pipe.

5/19/23

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