



ICC-ES Report

PMG-1018

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Reissued 02/2025
This report is subject to renewal 02/2026

EVALUATION SUBJECT:

SPEARS LABWASTE™ CPVC CORROSIVE WASTE DRAINAGE SYSTEM

DIVISION:

22 00 00—HEATING, VENTILATING AND AIR CONDITIONING

SECTION:

22 13 16—SANITARY WASTE AND VENT PIPING
22 66 00—CHEMICAL WASTE SYSTEMS FOR LABORATORY
AND HEALTHCARE FACILITIES

Report Holder:

SPEARS MANUFACTURING COMPANY

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CSI: DIVISION 22 00 00—PLUMBING
Section: 22 13 16—Sanitary Waste and Vent Piping
Section: 22 66 00—Chemical Waste Systems for Laboratory and Healthcare Facilities

Product certification system:

The ICC-ES product certification system includes testing samples taken from the market or supplier's stock, or a combination of both, to verify compliance with applicable codes and standards. The system also involves factory inspections, and assessment and surveillance of the supplier's quality system.

Product: Spears LabWaste™ CPVC Corrosive Waste Drainage System—for use in accordance with the manufacturer's chemical resistance recommendations for chemical waste drainage applications.

Listee: Spears Manufacturing Company
15853 Olden Street
Sylmar, California 91342
www.spearsmfg.com

Compliance with the following codes:

2024, 2021, 2018, 2015, 2012 and 2009 *International Plumbing Code*® (IPC)
2024, 2021, 2018, 2015, 2012 and 2009 *Uniform Plumbing Code* (UPC)*

* *Uniform Plumbing Code*® is a copyrighted publication of the International Association of Plumbing and Mechanical Officials

Compliance with the following standards:

ASTM F493-2022, Standard Specification for Solvent Cements for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe and Fittings
ASTM D1784-2020, Standard Specification for Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl chloride) (CPVC) Compounds (cell classification 23447)
ASTM F2618-2024, Standard Specification for Chlorinated Poly (Vinyl Chloride) (CPVC) Pipe and Fittings for Chemical Waste Drainage Systems
NSF/ANSI 14-2023, Plastics Piping Systems Components
ICC-ES LC1007-2010, PMG Listing Criteria for Chlorinated Polyvinyl Chloride (CPVC) Systems of Piping, Fittings and Solvent Cement Used in Chemical Waste Systems

Identification:

Piping and fittings: LabWaste™ piping and fittings are marked with the Spears Manufacturing Company name or trademark (SPEARS®), CPVC, nominal pipe size in inches, ASTM F2618 designation, NSF-cw and the ICC-ES PMG listing mark.

Solvent cement: Packages of the Spears® LW-5 CPVC Solvent Cement are marked with the Spears Manufacturing Company address and name or trademark, the designation ASTM F493, the lot number, NSF—for corrosive waste, the ICC-ES PMG listing mark.

Installation:

Installation of the drainage pipe and fittings must comply with the manufacturer's published installation instructions and the IPC.

LabWaste™ fittings must be joined to pipe using Spears® LW-5 CPVC Solvent Cement. Connection between the Spears CPVC piping system and other materials must be made using Spears® LabWaste™ mechanical connection adapters. Materials exposed in plenums must demonstrate a maximum flame-spread index of 25 and a maximum smoke-developed index of 50 when tested in accordance with ASTM E84.

Models:

The Spears LabWaste™ system is supplied in pipe and fitting sizes of 1½, 2, 3, 4, 6, 8, 10 and 12 inches (38.1, 50.8, 76.2, 101.6, 152.4, 203.4, 254 and 304.8 mm).

Spears® LW-5 CPVC Cement is a proprietary blended, one-step solvent cement.

Conditions of Listing:

1. Pipe, Fittings and Solvent Cement are manufactured and tested in accordance with the requirements of ASTM F2618.
2. The methods of treatment, neutralization or dilution of the chemical waste transported by the drainage pipe and fittings, when discharging to a sanitary drainage system in accordance with IPC Section 803.2, are outside the scope of this listing.
3. Use of the pipe and fittings in plenums or in fire-resistance-rated assemblies is outside the scope of this listing. Materials exposed in plenums must demonstrate a maximum flame-spread index of 25 and a maximum smoke-developed index of 50, when tested in accordance with ASTM E84.
4. Pipe, Fittings and Solvent Cement are manufactured by Spears Manufacturing Company under a quality control program with annual surveillance inspections by ICC-ES.