



CSI: DIVISION: 23 00 00—MECHANICAL
Section: 23 00 00—HVAC

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: Surface Burning Characteristics for FlowGuard® CPVC Pipe and Fittings

Listee: Lubrizol Advanced Materials, Inc.
9911 Brecksville Road
Cleveland, Ohio 44141
www.lubrizol.com/cpvc

Additional Companies:

New Products Industries Co. Ltd (NEPROPLAST)
Jeddah Industrial City 1st and 2nd
Jeddah, Saudi Arabia
www.neproplast.com

Compliance with the following codes:

2024, 2021, 2018, 2015, 2012, 2009 and 2006 *International Mechanical Code*® (IMC)
2018, 2015, 2012, 2009 and 2006 *Uniform Mechanical Code*® (UMC)*

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Compliance with the following standards:

ASTM E 84-24, Test Method for Surface Burning Characteristics of Building Materials
UL 723 (Ed. 11), Test for Surface Burning Characteristics of Building Materials

Identification:

Pipe must bear the manufacturer's name or trademark, test standard, rating and the ICC-ES PMG listing mark.

Fittings must bear manufacturer's name or trademark, nominal size and a third-party certification mark. Packaging must be marked with test standard, rating and ICC-ES PMG listing mark.

Installation:

The pipe and fittings are to be installed in accordance with the manufacturer's instructions and the applicable code.

Installation of pipe and fittings within ducts and plenums shall be in accordance with Section 602 of the IMC or 602.0 of the UMC

Models:

The following CPVC pipe and fittings models have been tested as a single row of four 24 in. pipe lengths placed end to end, with a coupling between each length followed by a 15 ft. length of pipe either water-filled or dry as a modified* version of UL 723 / ASTM E 84, Test Methods for Surface Burning Characteristics. The following ratings were obtained and have been found to meet the 25/50 flame spread/smoke developed requirements.

- 1/2" – 6" water-filled FlowGuard® CPVC pipe and fittings have a flame spread index of 0 and a smoke developed index of no more than 20.
- * The specimens tested are not conducive to full coverage of the 20 in. x 24 ft. test sample as specified by UL 723/ASTM E84. Therefore, only a certain portion of the total area exposed to the flame is covered by the test samples. The tested specimens are representative models of finish product.

Conditions of listing:

1. The pipe and fitting models recognized by this listing have been evaluated for surface burning characteristics only. Evaluation of the CPVC pipe and fittings to the applicable performance standard in accordance with Chapter 6 of the IPC or UPC is outside the scope of this report.
2. The plumbing systems must be installed in accordance with the applicable codes.
3. The CPVC resin used in the manufacturing of the pipe and fittings covered by this report were supplied by Lubrizol and is under a quality control program with annual surveillance inspections by ICC-ES.