



NYC Department of Buildings
280 Broadway, New York, NY 10007
Patricia Lancaster, FAIA, Commissioner
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Report of Materials and Equipment Acceptance Division

Pursuant to Administrative Code Section 27-131, the following equipment or material has been found acceptable for use subject to the terms and conditions contained herein.

MEA 170-07-E

Manufacturer: Spears® Manufacturing Company, 15853 Olden Street, Sylmar, CA 91342

Trade Name(s): FlameGuard™

Product: CPVC fire sprinkler products

Pertinent Code Section(s): §27-131, Subchapter 17, Reference Standard RS17-2A and RS17-2B, and Dept. of Buildings Rules of the City of New York (Title 1-Chapter 29-09)

Prescribed Test(s): UL Standards 1821 & 1887

Laboratory: Underwriters Laboratories, Inc.

Test Report(s):

- UL File Ex3769
Project 99NK24455/Ex5268; Project 04NK07826/Ex3769
Project 99NK30513/Ex5268; Project 04NK09618/Ex3769
Project 01NK50330/Ex3769; Project 04NK09799/Ex3769
Project 02NK06400/Ex5268; Project 04NK12377/Ex3769
Project 02NK34622/Ex5268; Project 05NK10231/Ex3769
Project 02NK49726/Ex5268; Project 05NK12466/Ex3769
Project 03NK22106/Ex5268; Project 05NK24164/Ex3769
Project 04NK05577/Ex3769; Project 05CA45921/Ex3769
Issued: June 30, 2004 and revised November 29, 2006

2. UL letter dated May 7, 2007.

Description: Spears® FlameGuard™ fire sprinkler fittings are produced in a variety of configurations and sizes from Chlorinated Poly Vinyl Chloride (CPVC) in accordance with UL 1821, Thermoplastic sprinkler pipe and fittings for Fire Protection Service; and in compliance with UL 1887 Fire Test of plastic sprinkler pipe for visible flame and smoke characteristics.

Model Configuration	Nominal Size(s), inches
Cap	3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3
Coupling	3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3
90 degrees Elbow	3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3
45 degrees Elbow,	3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3
Tee	3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3
Cross	3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3
90 degree Street Elbow	3/4, 1, 1-1/4, 1-1/2, 2
Street Tee	3/4, 1, 1-1/4, 1-1/2, 2
Reducing Bushing	1 x 3/4; 1-1/4 x 3/4, 1; 1-1/2 x 3/4, 1, 1-1/4; 2 x 3/4, 1, 1-1/4, 1-1/2; 2-1/2 x 1-1/4, 1-1/2, 2; 3 x 2, 2-1/2
Reducing Coupling	1 x 3/4; 1-1/4 x 1; 1-1/2 x 1, 1-1/4; 2 x 1-1/2;
90 degrees Reducing Elbow	1 x 3/4
Reducing Tee	1 x 1 x 3/4; 1-1/4 x 1-1/4 x 3/4, 1; 1-1/2 x 1-1/2 x 3/4, 1, 1-1/4; 2 x 2 x 3/4, 1, 1-1/2; 2-1/2 x 2-1/2 x 1, 1-1/4, 1-1/2, 3 x 3 x 2, 2-1/2; 1 x 3/4 x 3/4, 1; 1-1/4 x 1 x 3/4, 1, 1-1/4; 3/4 x 3/4 x 1; 1-1/4 x 1-1/4 x 1-1/2; 2 x 2 x 2-1/2
Reducing Cross	1 x 1 x 3/4 x 3/4
Sprinkler Adapter (Slip)	3/4 x 1/2; 1 x 1/2, 3/4
Sprinkler Adapter (Spigot)	3/4 x 1/2; 1 x 1/2
Sprinkler Adapter Elbow	3/4 x 1/2; 1 x 1/2, 3/4; 1-1/4 x 1/2
Sprinkler Adapter Tee	3/4 x 3/4 x 1/2; 1 x 1 x 1/2, 1; 1/2x1/2x3/4, 1/2 x 1/2 x 1; 1 x 3/4 x 1/2; 1-1/4 x 1 x 1/2; 1-1/4 x 1-1/4 x 1/2; 1-1/2 x 1-1/4 x 1/2; 1-1/2 x 1-1/2 x 1/2; 2 x 2 x 1/2; 1 x 1/2 x 1

Model Configuration	Nominal Size(s), inches
Sprinkler Adapter Cross	3/4x3/4x1/2x1/2, 1 x 1 x 1/2 x 1/2, 1 x 1 x 3/4 x 3/4
Adjustable Drop Nipple (Slip and Spigot)	3/4 x 1/2; 1 x 1/2
Female Threaded Adapter (Slip)	3/4, 1, 1-1/4, 1-1/2, 2
Unions	3/4, 1, 1-1/4, 1-1/2, 2
Female Threaded Adapter (Spigot)	3/4, 1
Male Threaded Adapter,	3/4, 1, 1-1/4, 1-1/2, 2
Flange Adapter	3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3
Grooved Coupling Adapter	1-1/4, 1-1/2, 2, 2-1/2, 3

Pursuant to "Promulgation of the Rules relating to Material and Equipment Application Procedures" dated November 5, 1992, the Bureau of Fire Prevention has no objections Letter dated June 11, 2007, F.P. Index #0705064.

Terms and Conditions: The above units are accepted on condition that:

1. CPVC piping and fittings shall be permitted in Light-hazard Occupancies.
2. Except for J3 Occupancies, under no circumstance should CPVC sprinkler piping and fittings be allowed to be run exposed.
3. Except for J3 Occupancies, a permanent and non-removable fire-resistant barrier should always protect CPVC sprinkler piping and fittings.
4. Where CPVC sprinkler piping and fittings are used, the fire area should be limited to 2,500 square feet.
5. CPVC sprinkler piping and fittings are not permitted to penetrate firewalls.
6. CPVC sprinkler piping and fittings should not be used in combustibles concealed spaces where NFPA 13 requires sprinkler protection.
7. CPVC piping and fittings should not be used in dry-pipe sprinkler installations.
8. CPVC sprinkler piping and fittings should not be installed in outdoor locations.
9. CPVC sprinkler piping and fittings should only be used where the expected ambient temperature is between 32°F and 150°F. As such CPVC piping and fittings should not be installed immediately adjacent to heaters.

10. All uses, locations and installations shall comply with NYC Building Code, specifically Subchapter 17 and Reference Standard RS 17, as applicable.
11. The NYC rules (Title 1, Section 29-09) governing the installation of CPVC sprinkler pipe and fittings shall apply.
12. The manufacturer's installation, maintenance procedures and limitations shall be adhered to.
13. Underwriters Laboratories, Inc.'s listing requirements and limitations shall be adhered to.
14. Cements to join fittings to piping shall be limited to the cements that Underwriters Laboratories, Inc. evaluated and tested.
15. Each listing shall be marked with the following:
 - a. Listee's name or identifying symbol
 - b. Size of fittings
 - c. Material designation
 - d. Year of manufacture
16. All shipments and deliveries of such equipment shall be provided with permanent marking, suitably placed, certifying that the equipment shipped or delivered is equivalent to those tested and acceptable for use, as provided in Section 27-131 of the Building Code.

NOTE: In accordance with Section 27-131(d), all materials tested and accepted for use shall be subject to periodic retesting as determined by the Commissioner; and any material which upon retesting is found not to comply with Code requirements or the requirements set forth in the approval of the Commissioner shall cease to be acceptable for the use intended. During the period for such retesting, the Commissioner may require the use of such material to be restricted or discontinued if necessary to secure safety.

Final Acceptance September 21, 2007.
Examined by Donald J. [Signature]

