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Legacy report on the 2000 International Building Code®, the 2000 International Residential Code®, and the 2002 Accumulative Supplement to the International Codes™, the BOCA® National Building Code/1999, the 1999 Standard Building Code®, the 1997 Uniform Building Code™ and the 1998 International One- and Two-Family Dwelling Code®

DIVISION: 07—THERMAL AND MOISTURE PROTECTION

Section: 07210—Building Insulation

Section: 07840—Firestopping

EVALUATION SUBJECT:

- GREAT STUFF™ GAPS & CRACKS
GREAT STUFF™ WINDOW & DOOR
GREAT STUFF™ BIG GAP FILLER
GREAT STUFF™ PRO GAPS & CRACKS
GREAT STUFF™ PRO WINDOW & DOOR
GREAT STUFF™ PRO 10/16/23 POUND
INSTA-SEAL™ 10/16/23 POUND
ENERFOAM™

MANUFACTURER:

THE DOW CHEMICAL COMPANY
2050 NORTH BROADWAY
JOLIET, IL 60435
(815) 774-6500
www.dow.com

1.0 SUBJECT

- 1.1 Great Stuff™ Gaps & Cracks
1.2 Great Stuff™ Window & Door
1.3 Great Stuff™ Big Gap Filler
1.4 Great Stuff™ Pro Gaps & Cracks
1.5 Great Stuff™ Pro Window & Door
1.6 Great Stuff™ Pro 10/16/23 Pound
1.7 Insta-seal™ 10/16/23 Pound
1.8 ENERFoam™

2.0 PROPERTY FOR WHICH EVALUATION IS SOUGHT

- 2.1 Alternative Fireblocking Material

3.0 DESCRIPTION

3.1 General

Great Stuff™ Gaps & Cracks, Great Stuff™ Window & Door, Great Stuff™ Big Gap Filler, Great Stuff™ Pro Gaps & Cracks, Great Stuff™ Pro Window & Door, Great Stuff™ Pro 10/16/23 Pound, Insta-Seal™ 10/16/23 Pound, and ENERFoam™ are single-component, polyurethane foam sealants, which expand to take the shape of cracks and voids to form a seal.

The foams listed have been evaluated for use as an alternative to the fireblocking materials prescribed in the applicable code. The foam is used to seal the annular space created by the penetration of wood plates by pipes and conduits.

3.1.1 Great Stuff™ Gaps & Cracks: A minimal expanding foam sealant which expands to take the shape of cracks and voids to form a seal. The foam is provided in 12 and 20 oz. (340 and 567 g) aerosol cans.

3.1.2 Great Stuff™ Window and Door A low pressure expanding foam sealant which expands to take the shape of cracks and voids to form a seal. The foam is provided in 12 oz. (340 g) aerosol cans.

3.1.3 Great Stuff™ Big Gap Filler: An expanding foam sealant that expands to approximately three times the can capacity and takes the shape of cracks and voids to form a seal. The foam is provided in 12 and 20 oz. (340 and 567 g) aerosol cans.

3.1.4 Great Stuff™ Pro Gaps & Cracks: A minimal expanding foam sealant which expands to take the shape of cracks and voids to form a seal. The foam is provided in 24 oz. (680 g) aerosol cans.

3.1.5 Great Stuff™ Pro Window and Door: A low pressure expanding foam sealant which expands to take the shape of cracks and voids to form a seal. The foam is provided in 20 oz. (567 g) aerosol cans.

3.1.6 Great Stuff™ Pro 10/16/23 Pound: A minimal expanding foam sealant which expands to take the shape of cracks and voids to form a seal. The foam is provided in 10, 16 and 23 lb (4.5, 7.3 and 10.4 kg) pressurized tanks.

3.1.7 Insta-Seal™ 10/16/23 Pound: A minimal expanding foam sealant which expands to take the shape of cracks and voids to form a seal. The foam is provided in 10, 16 and 23 lb (4.5, 7.3 and 10.4 kg) pressurized tank.

3.1.8 Enerfoam™: A minimal expanding foam sealant which expands to take the shape of cracks and voids to form a seal. The foam is provided in 12, 24 and 32 oz. (340, 680 and 908 g) aerosol cans.

3.2 Fire Performance

The foams have a flame spread index of 25 or less and a smoke-developed index of 450 or less when tested at a maximum thickness of 3/4 in. (19.1 mm) beads.

ICC-ES legacy reports are not to be construed as representing aesthetics or any other attributes not specifically addressed, nor are they to be construed as an endorsement of the subject of the report or a recommendation for its use. There is no warranty by ICC Evaluation Service, Inc., express or implied, as to any finding or other matter in this report, or as to any product covered by the report.



The foam has been tested in accordance with UL 1715 and is not required to be protected by a thermal barrier.

The foam has been tested in accordance with ASTM E814 to establish that the product is equivalent in performance to the fireblocking materials prescribed in the applicable code.

4.0 INSTALLATION

Great Stuff™ Gaps & Cracks, Great Stuff™ Window & Door, Great Stuff™ Big Gap Filler, Great Stuff™ Pro Gaps & Cracks, Great Stuff™ Pro Window & Door, Great Stuff™ Pro 10/16/23 Pound, Insta-Seal™ 10/16/23 Pound, and ENERFoam™ shall be installed in the annular space between the outside edge of the penetrating item and the hole in the wood plate through which it passes. The foam shall be installed to completely fill the annular space around penetration for the full depth of the plate that has been penetrated. The foam is limited to use with penetrations with a maximum annular space of 1 5/16 in. (33 mm), measured horizontally from the outside edge of the penetrating item and the edge of the opening.

The manufacturer's published installation instructions, subject to the conditions of this report, shall be strictly adhered to. A copy shall be available on the job site at all times during installation.

5.0 IDENTIFICATION

Each container of Great Stuff™ Gaps & Cracks, Great Stuff™ Window & Door, Great Stuff™ Big Gap Filler, Great Stuff™ Pro Gaps & Cracks, Great Stuff™ Pro Window & Door, Great Stuff™ Pro 10/16/23 Pound, Insta-Seal™ 10/16/23 Pound, and ENERFoam™ shall be identified by a label bearing the manufacturer's name and/or trademark, name of product, the label of the quality control agency (Underwriters Laboratories Inc.) and the number of this report for field identification. The label shall also specify the flame spread and smoke-developed indices of the foams.

6.0 EVIDENCE SUBMITTED

- 6.1 Manufacturer's product data and literature.
- 6.2 Test report on foamed plastic caulking and sealant in accordance with UL 1715, prepared by Underwriters Laboratories Inc., File R13655, Project 98NK14389, dated September 14, 1998.
- 6.3 Test report on foamed plastic caulking and sealant in accordance with ASTM E84, prepared by Underwriters Laboratories Inc., Letter Report Reference File R13655, Project 94NK9651, dated March 7, 1995, and clarification letter dated April 4, 2000.
- 6.4 Test report on foamed plastic caulking and sealant in accordance with ASTM E84, prepared by Underwriters Laboratories Inc., File No. R13655, Project 90NK957, dated May 31, 1990.
- 6.5 Test report on foamed plastic caulking and sealant in accordance with ASTM E84, prepared by Underwriters Laboratories Inc., File No. R13655, Project 00NK30043, dated September 8, 2000.
- 6.6 Quality Manual for The DOW Chemical Company, Joliet Facility, dated November 19, 2003, containing the signature of representatives of DOW Chemical Company and Underwriters Laboratories Inc.
- 6.7 Evaluation of fire testing results, prepared by Koffel Associates, Inc., dated August 26, 1999, signed by Donald W. Belles, P.E.

- 6.8 Evaluation of fire testing results, prepared by Koffel Associates, Inc., dated June 15, 2000, signed by Donald W. Belles, P.E.
- 6.9 Test report of Standard Test Method for Fire Tests of Through-Penetration Fire Stops in accordance with ASTM E814, prepared by Omega Point Laboratories, Project No. 16445-109138, dated July 19, 2001.
- 6.10 Test report of Standard Test Method for Fire Tests of Through-Penetration Fire Stops in accordance with ASTM E814, prepared by Omega Point Laboratories, Project No. 16445-109740, dated November 6, 2001.
- 6.11 Test report on foamed plastic caulking and sealant in accordance with ASTM E84, prepared by Underwriters Laboratories Inc., File R13655, Project 91NK-21989, Project 01NK28740, dated January 27, 1992, Revised November 21, 2001.
- 6.12 Letter report on testing performed in accordance with ASTM E84, prepared by Underwriters Laboratories Inc., Reference R14540/01NK28740, dated January 30, 2002.
- 6.13 Test report of Standard Test Method for Fire Tests of Through-Penetration Fire Stops in accordance with ASTM E814, prepared by Omega Point Laboratories, Project No. 16445-110121, dated January 30, 2002.

7.0 CONDITIONS OF USE

The ICC-ES Subcommittee for the National Evaluation Service finds that the Great Stuff™ Gaps & Cracks, Great Stuff™ Window & Door, Great Stuff™ Big Gap Filler, Great Stuff™ Pro Gaps & Cracks, Great Stuff™ Pro Window & Door, Great Stuff™ Pro 10/16/23 Pound, Insta-Seal™ 10/16/23 Pound, and ENERFoam™ polyurethane foams as described in this report comply with or is suitable alternates to that specified in the 2000 *International Building Code*®, the 2000 *International Residential Code*®, and the 2002 *Accumulative Supplement to the International Codes*™, the BOCA® *National Building Code/1999*, the 1999 *Standard Building Code*®, the 1997 *Uniform Building Code*™ and the 1998 *International One- and Two-Family Dwelling Code*®, subject to the following conditions:

- 7.1 The foams shall not be used in applications where it will be exposed to sunlight or weather.
- 7.2 Use of the foams as a component of fire-resistance-rated assemblies is outside the scope of this report.
- 7.3 The exposed width of the foam, or the annular space of penetrations to be sealed, shall not exceed 1 5/16 in. (33 mm).
- 7.4 In jurisdictions adopting the 2000 *International Building Code*® or the 1997 *Uniform Building Code*™, the foams shall be limited to use with fireblocking in buildings of Type V (Combustible) construction. In jurisdictions adopting the BOCA® *National Building Code/1999* or 1999 *Standard Building Code*®, the foams shall be limited to use in construction types where combustible fireblocking is permitted.
- 7.5 This report is subject to periodic re-examination. For information on the current status of this report, contact ICC-ES.

This report is subject to re-examination in two years.