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Standard Guide for Product Selection/Delivery Systems for Aerosol Foam Sealants and Adhesives¹

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1. Scope

1.1 This guide covers the general use of aerosol polyurethane and aerosol latex foams extruded from pressurized containers intended for building envelope air barrier sealant and adhesive applications in building construction. It also provides an overview of associated standards and test methods that quantify key physical properties that are useful to design professionals, engineers, specifiers, and end users.

1.2 Currently two main foam sealant types are applicable to this practice, single component polyurethane and latex types.

1.3 The values stated in inch-pound units are to be regarded as standard. SI units provided are for information only and are not considered standard.

1.4 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.* For specific safety considerations see Section 7.

2. Referenced Documents

2.1 ASTM Standards:²

- C168 Terminology Relating to Thermal Insulation
- C557 Specification for Adhesives for Fastening Gypsum Wallboard to Wood Framing
- C717 Terminology of Building Seals and Sealants
- C1536 Test Method for Measuring the Yield for Aerosol Foam Sealants
- C1620 Specification for Aerosol Polyurethane and Aerosol Latex Foam Sealants
- C1642 Practice for Determining Air Leakage Rates of Aerosol Foam Sealants and Other Construction Joint Fill and Insulation Materials

- C1643 Test Method to Measuring the Post Dispensing Volumetric Expansion of Aerosol Foam Sealants
- C1737 Guide for Evaluating Temperature Effects to Aerosol Foam Sealant During and After Dispensing
- D883 Terminology Relating to Plastics
- D3498 Specification for Adhesives for Field-Gluing Plywood to Lumber Framing for Floor Systems
- D6464 Specification for Expandable Foam Adhesives for Fastening Gypsum Wallboard to Wood Framing
- E72 Test Methods of Conducting Strength Tests of Panels for Building Construction
- E84 Test Method for Surface Burning Characteristics of Building Materials
- E119 Test Methods for Fire Tests of Building Construction and Materials
- E283 Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen
- E814 Test Method for Fire Tests of Penetration Firestop Systems
- E2112 Practice for Installation of Exterior Windows, Doors and Skylights

2.2 Other Standards:

- AFG-01 Adhesives for Field-Gluing Plywood to Wood Framing³
- UL 723 Test for Surface Burning Characteristics of Building Materials⁴
- UL 1715 Fire Test of Interior Finish Material⁴
- AAMA 812 Voluntary Practice for Assessment of Single Component Aerosol Expanding Polyurethane Foams for Sealing Rough Openings of Fenestration Installations⁵
- NFPA 286: Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth⁶

¹ This test method is under the jurisdiction of ASTM Committee C24 on Building Seals and Sealants and is the direct responsibility of Subcommittee C24.61 on Aerosol Foam Sealants.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

³ Available from APA: www.apawood.org/.

⁴ Available from Underwriters Laboratories (UL), 2600 N.W. Lake Rd., Camas, WA 98607-8542, <http://www.ul.com>.

⁵ Available from American Architectural Manufacturers Association (AAMA), 1827 Walden Office Square, Suite 550, Schaumburg, IL 60173-4268, <http://www.aamanet.org>.

⁶ Available from National Fire Protection Association (NFPA), 1 Batterymarch Park, Quincy, MA 02169-7471, <http://www.nfpa.org>