Designation: E2988 – 15

StandardPractice for Specimen Preparation and Mounting of Flexible Fibrous Glass Insulation for Metal Buildings to Assess Surface Burning Characteristics[1]

This standard is issued under the fixed designation E2988; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This practice describes a procedure for specimen preparation and mounting when testing Flexible Fibrous Glass Insulation for Metal Buildings to assess flame spread and smoke development as surface burning characteristics using Test Method E84.

1.2 This practice applies to products described in Specification C991.

1.3 This practice provides instructions for the testing of both un-faced insulation (Specification C991 Type I) and face insulation (Specification C991 Type II).

1.4 This practice does not provide pass/fail criteria that can be used as a regulatory tool.

1.5 Use the values stated in inch-pound units as the standard in referee decisions. The values in the SI system of units are given in parentheses, for information only; see IEEE/ASTM SI-10 for further details.

1.6 This fire standard cannot be used to provide quantitative measures.

1.7 Fire testing of products and materials is inherently hazardous and adequate safeguards for personnel and property shall be employed in conducting these tests. Fire testing involves hazardous materials, operations and equipment.

1.8 This practice gives instructions on specimen preparation and mounting but the fire-test-response method shall be conducted in accordance with Test Method E84. See also Section 8 for information on operator safety.

1.9 *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.*

2. Referenced Documents

2.1 *ASTM Standards:*[2]

C168 Terminology Relating to Thermal Insulation

C991 Specification for Flexible Fibrous Glass Insulation for Metal Buildings

E84 Test Method for Surface Burning Characteristics of Building Materials

E176 Terminology of Fire Standards

IEEE/ASTM SI-10 American National Standard for Use of the International System of Units (SI): The Modern Metric System

3. Terminology

3.1 *Definitions*—For definitions of terms used in this practice and associated with insulation issues, refer to terminology contained in Terminology C168 or Specification C991. For definitions of terms used in this practice and associated with fire issues, refer to Terminology E176.

3.2 *Definitions of Terms Specific to This Standard:*

3.2.1 *metal rods, n—as related to fire testing*, steel rods, ¼ in. (6.3 mm) diameter and between 23 and 24 in. (0.58 and 0.61 m) long.

4. Summary of Practice

4.1 This practice describes a procedure for specimen preparation and mounting when testing flexible fibrous glass insulation for metal buildings to assess flame spread and smoke development as surface burning characteristics using Test Method E84.

4.2 Flexible fibrous glass insulation for metal buildings is a fibrous glass insulation, furnished in two types as described in Specification C991. Type I is an un-faced insulation blanket. Type II is a Type I blanket that is post-processed by a laminating process that applies an adhesive bonded facing to one surface.

[1] This practice is under the jurisdiction of ASTM Committee E05 on Fire Standards and is the direct responsibility of Subcommittee E05.22 on Surface Burning.

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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.