

## STANDARD INFORMATION

**Standard Number:** ASTM E84

**Standard Name:** Standard Test Method for Surface Burning Characteristics of Building Materials

**Standard Edition and Issue Date:** 2018 Edition Dated April 1, 2018

**Date of Revision:** April 1, 2018

**Date of Previous Revision of Standard:** December 1, 2017

## EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

**Effective Date:** **April 1, 2020**

## IMPACT, OVERVIEW, AND ACTION REQUIRED

**Impact Statement:** A review of all Listing Reports is necessary to determine which products comply with new/revised requirements and which products will require re-evaluation. **NOTE:** Effective immediately, this revised standard will be exclusively used for evaluation of new products unless the Applicant requests in writing that current requirements be used along with their understanding that their listings will be withdrawn on Effective Date noted above, unless the product is found to comply with new/revised requirements.

### Overview of Changes:

- Addition of annex for Textiles
- Addition of annex for Batt or Blanket-Type Insulating Materials

Specific details of new/revised requirements are found in table below.

**If the applicable requirements noted in the table are not described in your report(s), these requirements will need to be confirmed as met and added to your report(s) such as markings, instructions, test results, etc. (as required).**

### Client Action:

**Information** – To assist our Engineer with review of your Listing Reports, please submit technical information in response to the new/revised paragraphs noted in the attached or explain why these new/revised requirements do not apply to your product (s).

***Current Listings Not Active? – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records. We will do this at no charge as long as Intertek is notified in writing prior to the review of your reports.***



## STANDARD INFORMATION

CLAUSE	VERDICT	COMMENT
		<i>Additions to existing requirements are underlined and deletions are shown lined out below.</i>
		<b><i>New annex added;</i></b>
Annex 6		<b>MOUNTING METHOD FOR TESTING TEXTILE MATERIALS TO ASSESS SURFACE BURNING CHARACTERISTICS OF THE MATERIAL ITSELF WITH TEST METHOD E84</b>
A6.1		When textile materials intended for application to walls or ceilings are tested to assess surface burning characteristics, see Practice E2404.
A6.2		<p>Textile Materials with a Back Coating—When the surface burning characteristics of the textile material itself are required, specimens shall be mounted on fiber-cement board adhered with high temperature bonding mortar. For textile materials that have a back coating, the adhesive shall be applied only to the back of the textile material using a 3/32-in. (2.4-mm) V-notched trowel held at an 80 to 90 ° angle and using a random pattern. The textile material specimen shall then be placed on the smooth side of the fiber-cement board, smoothed with a flat 12-in. (305-mm) brush with 1-in. (25.4-mm) nylon bristles, taking care not to force the adhesive into the specimen, or to stretch or physically deform the specimen, and rolled using a roller comprised of three 2.25-in. (57.2-mm) sections, a nominal diameter of 1.5-in. (38.1-mm), and a total length of 7-3/8 in. (187.3 mm). The roller shall have a nominal downward force of 20 lb (89 N) during use. It is acceptable for the prepared samples to be dead-stacked overnight but they shall be transferred to separate storage racks until tested. Each sample shall be vacuumed prior to test.</p>
A6.3		<p>Textile Materials without a Back Coating—When the surface burning characteristics of the textile material itself are required, specimens shall be mounted on fiber-cement board adhered with high temperature bonding mortar. For textile materials that do not have a back coating, the adhesive shall be applied to the smooth side of the fiber-cement board using a 3/32-in. (2.4-mm) V-notched trowel held at an 80 to 90 ° angle and using a random pattern. The textile material specimen shall then be placed into the wet adhesive, smoothed with a flat 12-in. (305-mm) brush with 1-in. (25.4-mm) nylon bristles, taking care not to force the adhesive into the specimen, or to stretch or physically deform the specimen, and rolled using a roller comprised of three 2.25-in. (57.2-mm) sections, a nominal diameter of 1.5-in. (38.1-mm), and a total length of 7-3/8 in. (187.3 mm). The roller shall have a nominal downward force of 20 lb (89 N) during use. It is acceptable for the prepared samples to be dead-stacked overnight but they shall be transferred to separate storage racks until tested. Each sample shall be vacuumed prior to test.</p>



CLAUSE	VERDICT	COMMENT
A6.4		In the event that the textile material cannot be adhered to the fiber-cement board using high temperature bonding mortar, use a two-part epoxy adhesive. The adhesive shall be applied using a 3/32-in. (2.4-mm) V-notched trowel held at an 80 to 90 ° angle using a random pattern. If, due to the physical nature of the textile material, the use of the notched trowel is not appropriate, apply the epoxy adhesive using a 3/8-in. (9.5-mm) napped paint roller.
A6.5		<b>Limitations</b>
A6.5.1		In some instances, due to the porosity or density of some materials, application of the adhesive using the notched trowel will force the adhesive into and through the specimen causing “bleed through.” In such instances, the flame spread index and smoke developed index obtained would not necessarily relate to the corresponding indices obtained by testing without such influence.
A6.5.2		In some other instances, due to the mechanical action of the trowel, severe stretching or physical deformation of some materials will occur, an occurrence especially prevalent with some knitted products. Deformation of a specimen results in a different areal weight and density, and thereby influences the fuel load contributed by the specimen. In such instances, the flame spread index and smoke developed index obtained would not necessarily relate to the corresponding indices obtained by testing without such influence.
Annex 7		<b><i>New annex added</i></b>
		<b>BATT OR BLANKET-TYPE INSULATING MATERIALS</b>
A7.1		Batt or blanket materials that do not have sufficient rigidity or strength to support themselves shall be supported by metal rods inserted through the material and positioned such that the bottom of the rod is approximately 1/4 in. (6.3 mm) from the surface to be exposed to the flame.
A7.2		This mounting method shall not be used for batt or blanket materials less than 1 in. (25.4 mm) thick.
		<b>CUSTOMERS PLEASE NOTE:</b> This Table and column “Verdict” can be used in determining how your current or future production is or will be in compliance with new/revised requirements.