

Standard Practice for Specimen Preparation and Mounting of Wood Products to Assess Surface Burning Characteristics¹

This standard is issued under the fixed designation E2579; 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 reappraisal. A superscript epsilon (ε) indicates an editorial change since the last revision or reappraisal.

1. Scope

1.1 This practice describes procedures for specimen preparation and mounting when testing wood products to assess flames spread and smoke development as surface burning characteristics using Test Method E84.

1.2 This practice applies also to laminated products factory-produced with a wood substrate (see 8.6). This practice does not apply to wood veneers or facings intended to be applied on site over a wood substrate, which are covered by Practice E2404.

1.3 Testing is conducted with Test Method E84.

1.4 Testing for the reporting of the moisture content of the test specimen is conducted with Test Methods D4442.

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

1.6 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.

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

1.8 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 and equipment. This standard gives instructions on specimen preparation and mounting, but the fire-test-response method is given in Test Method E84. See also Section 10.

1.9 The text of this standard references notes and footnotes which provide explanatory materials. These notes and footnotes shall not be considered requirements of the standard.

1.10 *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

C1396/C1396M Specification for Gypsum Board
D9 Terminology Relating to Wood and Wood-Based Products
D1038 Terminology Relating to Veneer and Plywood
D1554 Terminology Relating to Wood-Base Fiber and Particle Panel Materials
D4442 Test Methods for Direct Moisture Content Measurement of Wood and Wood-Base Materials
D4444 Test Method for Laboratory Standardization and Calibration of Hand-Held Moisture Meters
D7438 Practice for Field Calibration and Application of Hand-Held Moisture Meters
E84 Test Method for Surface Burning Characteristics of Building Materials
E176 Terminology of Fire Standards
E2404 Practice for Specimen Preparation and Mounting of Textile, Paper or Polymeric (Including Vinyl) Wall or Ceiling Coverings, and of Facings and Wood Veneers Intended to be Applied on Site Over a Wood Substrate, to Assess Surface Burning Characteristics
IEEE/ASTM SI-10 International System of Units (SI): The Modern Metric System

2.2 CSA Standard:³

CSA O121 Douglas Fir Plywood

2.3 HPVA Standard:⁴

ANSI/HPVA HP-1 American National Standard for Hardwood and Decorative Plywood

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.

³ Available from Canadian Standards Association (CSA), 178 Rexdale Blvd., Toronto, ON Canada M9W 1R3.

⁴ Available from the Hardwood Plywood and Veneer Association, 1825 Michael Faraday Dr., Reston, VA 20190.