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Astm e84 test report

Meaning and use 4.1 This test method is intended only to provide comparative measurements of surface flame propagation and smoke density measurements with measurement of red oak and fibre-cement plate surfaces of a selection class under the specific fire exposure conditions described in this document. 4.2 This test method exposes a nominal 24-ft (7.32 m) long 20-inch long, (508 mm) a wide sample for controlled airflow and fire exposure treated to spread the flame over the entire length of the sample of red oak of the selected class in 51/2 min. 4.3 This test method is not included: 4.3.1 Measurement of heat transfer through the test surface. 4.3.2 The effect of the deteriorated flame has extended the behaviour of the assembly resulting from the proximity of flammable walls and ceilings. 4.3.3 Classification or definition of the material as non-combinable by means of the flame propagation index itself. 1. Scope 1.1 This fire test reaction standard for the comparative combustion behaviour of construction materials shall apply to exposed surfaces such as walls and ceilings. The test shall be carried out with the sample in the ceiling position with the surface to be evaluated face down to the source of ignition. The material, product or assembly must be able to be installed in the test position during the test. The sample must therefore be either self-personal in its own design quality, held in place by added supports along the test surface, or secured from the rear. 1.2. Test method E84 is a 10-minute fire test response method. These standards apply to the testing of materials in accordance with test methods which are applications or variations of the test method or apparatus used for test method E84: 1.2.1 The materials required by the user to meet the test tunnel with an extended duration of 30 minutes shall be tested in accordance with test method E2768. 1.2.2. Conductors and cables for use in air handling areas shall be tested in accordance with NFPA 262. 1.2.3. Pneumatic hoses for control systems shall be tested in accordance with UL 1820. 1.2.4. Combustible sprayer pipes shall be tested in accordance with UL 1887. 1.2.5. Optical fibre pathways and communications for use in air handling areas shall be tested in accordance with UL 2024. 1.3. The flame propagation and smoke index shall be reported. However, there is not necessarily a relationship between the two measurements. 1.4. The use of supporting materials on the underside of the test specimen has the ability to reduce the flame propagation index from those that could be obtained if the sample could be tested without such support. These test results do not necessarily relate to indices obtained by test materials without such support. 1.5 Testing of materials which are melted, dripping or delaminated to such an extent that continuity of the front of the flame is destroyed, resulting in low flame spread which do not relate directly to indices obtained by test materials which remain valid. 1.6. The values given in units of inch pound shall be considered as standard. The values shown in brackets are mathematical conversions to SI units that are provided for information only and are not considered standard. 1.7 The text of this standard refers to footnotes and footnotes which provide explanatory information. These footnotes and footnotes, other than those in tables and numbers, shall not be considered as requirements of the standard. 1.8. This standard is used to measure and describe the response of materials, products or reports to heat and flame under controlled conditions, but does not in itself include all factors necessary to assess the fire hazard or the risk of fire of materials, products or reports under actual fire conditions. 1.9 This standard does not cover all safety concerns, if any, associated with its use. The user of this standard shall be responsible for establishing appropriate safety, health and environmental practices and for determining the applicability of regulatory restrictions prior to use. 1.10 Fire testing is inherently dangerous. In carrying out these tests, appropriate safeguards shall be used for personnel and property. 1.11 This international standard has been brought up in accordance with the internationally recognised principles of standardisation established in the Decision on the principles for the development of international standards, manuals and recommendations issued by the World Trade Organisation Committee on Technical Barriers to Trade (TBT). 2. Referenced documents (purchase separately) The documents listed below shall be referenced within the scope of the standard but shall not be provided as part of the standard. ASTM Standard A390 Specifications for Zinc-Coated (Galvanized) Steel Poultry Fence Fabrics (Hexagonal and Straight Lines) C1186 Specifications for Flat Fiber-Cement Sheets C1288 Specifications for Fiber-Cement Inner Base Sheets C 1396/C1396M Drywall Specification D4442 Test methods for measuring the content of direct humidity of wood and wood-based materials D4444 Test method for laboratory standardisation and calibration of hand humidity meters E69 Test method for flammable Properties of treated Wood by means of fire tube apparatus E160 Test method for flammable properties of treated wood by nativity test 3 E162 Test method for surface flammability of materials using radiant heat energy sources E176 Terminology fire standards E286 Test method for surface flammability of construction materials using 8-ft (2.44-m) tunnel furnace E2231 Practice of sample preparation and assembly of piping and piping insulation materials to assess the characteristics of surface combustion E2404 Practice of sample preparation and textile assembly, paper or polymeric (including vinyl) and wood wall or ceiling coverings, tiles and veneers to assess the characteristics of surface combustion E2573 Practice of sample preparation installation of on-site stretch systems to assess surface combustion characteristics E2579 Practice of sample preparation and assembly of wood products to assess surface combustion characteristics E2599 Practice of sample preparation and installation of reflective insulation, Radiant barriers and vinyl stretch ceiling materials for construction applications to assess surface combustion characteristics E2686 Practice for sample preparation and assembly of tapes to assess surface combustion characteristics E2690 Practice for sample preparation and installation of caulks and putty to assess surface combustion characteristics E2768 Test Method for longer duration Surface characteristics of building materials (30 min Tunnel Test) E2988 Practice of sample preparation and installation of flexible fibrous glass insulation for metal buildings to assess surface combustion characteristics E3202 Practice of sample preparation and installation of plastic composites for use as dashboards, stairway treads, guards or handrails for the assessment of surface combustion characteristics nipa standard NFPA 262 Code ICS code number code 13.220.50 (Fire resistance of building materials and elements); 91.100.01 (Building materials) UNSC code UNSCR 30130000 (Construction products) Referring to this STANDARD DOI: 10.1520/E0084-20 Citation format ASTM E84-20, Standard Test Method for Surface Burning Properties of Building Materials, ASTM International, West Conshohocken, PA, 2020, www.astm.org Back to Top

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