



Designation: D2898 – 10 (Reapproved 2024)

Standard Practice for Accelerated Weathering of Fire-Retardant-Treated Wood for Fire Testing¹

This standard is issued under the fixed designation D2898; 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 addresses the durability of a fire-retardant treatment of wood products by exposure to accelerated cycles of wetting, drying, or ultraviolet (UV) exposure, or combination thereof, prior to evaluation by a fire response test. Four conditioning methods are described.

1.2 This practice is applicable to wood products that have been treated with fire-retardant chemicals by pressure impregnation.

1.3 The test specimens are to be in the form of, or suitable for fabrication into, test specimens, such as those described in Test Methods [E84](#), [E108](#), and [E1354](#) and other standard test methods for evaluating the fire performance of fire-retardant-treated wood products.

1.4 The text of these methods references notes and footnotes that provide explanatory material. These notes and footnotes (excluding those in tables and figures) shall not be considered as requirements of these test methods.

1.5 The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

1.6 *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, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

1.7 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

¹ This practice is under the jurisdiction of ASTM Committee [D07](#) on Wood and are the direct responsibility of Subcommittee [D07.07](#) on Fire Performance of Wood.

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2. Referenced Documents

2.1 *ASTM Standards:*²

[D9 Terminology Relating to Wood and Wood-Based Products](#)

[E84 Test Method for Surface Burning Characteristics of Building Materials](#)

[E108 Test Methods for Fire Tests of Roof Coverings](#)

[E176 Terminology of Fire Standards](#)

[E1354 Test Method for Heat and Visible Smoke Release Rates for Materials and Products Using an Oxygen Consumption Calorimeter](#)

2.2 *ICC Evaluation Service Acceptance Criteria:*³

[AC 107 Classified Wood Roof Systems](#)

2.3 *UL Standard:*⁴

[UL 790 Tests for Fire Resistance of Roof Covering Material](#)

3. Terminology

3.1 *Definitions*—Definitions used in this practice are in accordance with Terminologies [D9](#) and [E176](#), unless otherwise indicated.

4. Significance and Use

4.1 This practice describes different methods of exposing fire-retardant-treated wood products or assemblies to controlled accelerated weathering or conditioning.

4.2 The conditioning simulates effects of leaching, drying, temperature, and, in two methods, UV light.

4.3 Method A is the method normally specified for regulatory purposes when testing fire-retardant-treated wood that is intended for exterior applications.

5. Apparatus

5.1 The test apparatus shall be capable of subjecting the specimen uniformly to the test conditions described in Section [7](#).

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

³ Available from ICC Evaluation Service, Inc., 5360 Workman Mill Road, Whittier, CA 90601, <http://icc-es.org>.

⁴ Available from Underwriters Laboratories, Inc., 333 Pfingsten Road, Northbrook, IL 60062, <http://www.ul.com>.