



Designation: D1006/D1006M – 21

## Standard Practice for Conducting Exterior Exposure Tests of Hand and Factory Applied Paints on Wood and Wood Composite Materials<sup>1</sup>

This standard is issued under the fixed designation D1006/D1006M; 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.

*This standard has been approved for use by agencies of the U.S. Department of Defense.*

### 1. Scope\*

1.1 This practice covers procedures to be followed for direct exposure of house and trim paints on new, previously unpainted wood and wood composite materials to the environment. When originators of a weathering test have the actual exposure conducted by a separate agency, the specific conditions for the exposure of test and control specimens should be clearly defined and mutually agreed upon between all parties.

1.2 This standard covers specimen preparation including the application of the test paint to the wood substrate.

1.3 The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system are not necessarily exact equivalents; therefore, to ensure conformance with the standard, each system shall be used independently of the other, and values from the two systems shall not be combined.

1.4 *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.*

1.5 *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.*

### 2. Referenced Documents

#### 2.1 ASTM Standards:<sup>2</sup>

D523 Test Method for Specular Gloss

D660 Test Method for Evaluating Degree of Checking of Exterior Paints  
D661 Test Method for Evaluating Degree of Cracking of Exterior Paints  
D714 Test Method for Evaluating Degree of Blistering of Paints  
D772 Test Method for Evaluating Degree of Flaking (Scaling) of Exterior Paints  
D2244 Practice for Calculation of Color Tolerances and Color Differences from Instrumentally Measured Color Coordinates  
D4214 Test Methods for Evaluating the Degree of Chalking of Exterior Paint Films  
D5237 Guide for Evaluating Fabric Softeners  
D6132 Test Method for Nondestructive Measurement of Dry Film Thickness of Applied Organic Coatings Using an Ultrasonic Coating Thickness Gage  
D7787 Practice for Selecting Wood Substrates for Weathering Evaluations of Architectural Coatings  
E122 Practice for Calculating Sample Size to Estimate, With Specified Precision, the Average for a Characteristic of a Lot or Process  
E1677 Specification for Air Barrier (AB) Material or Assemblies for Low-Rise Framed Building Walls  
G7 Practice for Atmospheric Environmental Exposure Testing of Nonmetallic Materials  
G113 Terminology Relating to Natural and Artificial Weathering Tests of Nonmetallic Materials  
G147 Practice for Conditioning and Handling of Nonmetallic Materials for Natural and Artificial Weathering Tests

### 3. Terminology

3.1 *Definitions*—The definitions given in Terminology G113 are applicable to this practice.

#### 3.2 Definitions of Terms Specific to This Standard:

3.2.1 *rainscreen, n*—a system of construction where the siding stands off from the moisture-resistant surface of a building wall, creating an air gap to allow drainage and ventilation.

<sup>1</sup> This practice is under the jurisdiction of ASTM Committee D01 on Paint and Related Coatings, Materials, and Applications and is the direct responsibility of Subcommittee D01.27 on Accelerated Testing.

Current edition approved June 1, 2021. Published June 2021. Originally approved in 1951. Last previous edition approved in 2013 as D1006/D1006M – 13. DOI: 10.1520/D1006\_D1006M-21.

<sup>2</sup> 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.

\*A Summary of Changes section appears at the end of this standard