



Designation: D5572 – 95 (Reapproved 2019)

Standard Specification for Adhesives Used for Finger Joints in Nonstructural Lumber Products¹

This standard is issued under the fixed designation D5572; 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 specification establishes performance levels for adhesives to be used in finger joints in nonstructural bonded-lumber products. Such products include, but are not limited to, interior and exterior mouldings, window and door components or parts, and bonded-lumber panels. Adhesives that meet the requirements of the various performance classes are considered capable of providing an adequate bond for use under the conditions described for the class. This specification is to be used to evaluate adhesives as well as the adhesive bonds in the finger joints. See Section 5, Significance and Use, for limitations when using this specification to evaluate industrially manufactured finger joints.

NOTE 1—This specification supersedes the finger-joint portion of the 1990 edition of Specification D3110.

1.2 The following index is provided as a guide to the test methods in this specification:

	Section
Apparatus	6
Equipment, Material, and Preparation of Assemblies and Specimens	7
Conditioning for Factory-Manufactured Assemblies, Laboratory-Made Assemblies, and Test Specimens	8
Testing in Flexure	9
Testing in Tension	10
Exposure Conditions and Treatments	11
1. Dry Use Tests: Dry, 3-cycle Soak, Elevated Temperature, and Temperature-Humidity	11.1
2. Wet Use Tests: Dry, Boil, Elevated Temperature, and Vacuum-Pressure	11.2

NOTE 2—The conditioning needed for various stages in the preparation of both types of specimens and for the exposure tests are given.

NOTE 3—Specific guidelines for specimen size, exposure conditions, testing, calculation, and reporting are given for flexure specimens in Sections 9 and 11, and for tension specimens in Sections 10 and 11.

1.3 For the definitions of *dry use* and *wet use*, see 3.2.1.1 and 3.2.1.2.

1.4 The values stated in inch-pound units are to be regarded as standard. The SI units given in parentheses are for information only.

¹ This specification is under the jurisdiction of ASTM Committee D14 on Adhesives and is the direct responsibility of Subcommittee D14.30 on Wood Adhesives.

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1.5 The following precautionary caveat pertains only to the apparatus and test methods portions, Sections 6 – 11 of this specification: *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.*

1.6 *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:²

- D143 Test Methods for Small Clear Specimens of Timber
- D907 Terminology of Adhesives
- D3110 Specification for Adhesives Used in Laminate Joints for Nonstructural Glued Lumber Products (Withdrawn 1996)³
- D4442 Test Methods for Direct Moisture Content Measurement of Wood and Wood-Based Materials
- D4688 Test Method for Evaluating Structural Adhesives for Finger Jointing Lumber
- D5266 Practice for Estimating the Percentage of Wood Failure in Adhesive Bonded Joints
- E4 Practices for Force Verification of Testing Machines
- E6 Terminology Relating to Methods of Mechanical Testing
- E41 Terminology Relating to Conditioning (Withdrawn 2019)³
- E177 Practice for Use of the Terms Precision and Bias in ASTM Test Methods
- E691 Practice for Conducting an Interlaboratory Study to Determine the Precision of a Test Method

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 The last approved version of this historical standard is referenced on www.astm.org.