



Standard Test Methods for Joint Treatment Materials for Gypsum Board Construction¹

This standard is issued under the fixed designation C474; 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 These test methods cover the physical testing of joint compound, paper joint tape, glass-mesh joint tape, and an assembly of joint compound and paper joint tape.

1.1.1 Joint treatment materials are specified in Specification **C475/C475M**.

1.1.2 The joint treatment material described in this standard are for use with gypsum board installed in accordance with Specification **C840**.

1.2 The test methods appear in the following order:

	Section
Joint Compound Tests:	
Viscosity	5
Shrinkage	6
Check Cracking	7
Putrefaction	8
Joint Tape Tests:	
Tensile Strength	9
Width	10
Thickness	11
Paper Joint Tape Tests	
Dimensional Stability	12
Assemblages of Paper Joint Tape and Joint Compound:	
Bond of Paper Joint Tape to Joint Compound	15
Cracking of Joint Compound at Tape Edges	14
Glass-Mesh Joint Tape Test	
Skewness	13

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

1.4 The text of this standard 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 the standard.

1.5 *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.*

¹ These test methods are under the jurisdiction of ASTM Committee **C11** on Gypsum and Related Building Materials and Systems and are the direct responsibility of Subcommittee **C11.02** on Specifications and Test Methods for Accessories and Related Products.

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2. Referenced Documents

2.1 ASTM Standards:²

C11 Terminology Relating to Gypsum and Related Building Materials and Systems

C472 Test Methods for Physical Testing of Gypsum, Gypsum Plasters and Gypsum Concrete

C475/C475M Specification for Joint Compound and Joint Tape for Finishing Gypsum Board

C840 Specification for Application and Finishing of Gypsum Board

C1396/C1396M Specification for Gypsum Board

D685 Practice for Conditioning Paper and Paper Products for Testing

D828 Test Method for Tensile Properties of Paper and Paperboard Using Constant-Rate-of-Elongation Apparatus (Withdrawn 2009)³

D1000 Test Methods for Pressure-Sensitive Adhesive-Coated Tapes Used for Electrical and Electronic Applications

D3699 Specification for Kerosine

D3882 Test Method for Bow and Skew in Woven and Knitted Fabrics

E100 Specification for ASTM Hydrometers

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

2.2 TAPPI Standard:

T 411 Thickness (Caliper) of Paper, Paperboard, and Combined Board⁴

3. Terminology

3.1 **Definitions**—For definitions of terms relating to gypsum, see Terminology **C11**.

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

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.

⁴ Available from Technical Association of the Pulp and Paper Industry, Technology Park, P.O. Box 105113, Atlanta, GA 30348.

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