



Standard Specification for Joint Compound and Joint Tape for Finishing Gypsum Board¹

This standard is issued under the fixed designation C 475; 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 Department of Defense.

1. Scope

1.1 This specification covers all-purpose, taping and finishing joint compounds, and paper joint tape.

1.2 This specification also covers the minimum requirements for an assembly of taping and all-purpose compound and joint tape.

1.3 The values stated in inch-pound units are to be regarded as the standard.

2. Referenced Documents

2.1 ASTM Standards:

C 11 Terminology Relating to Gypsum and Related Building Materials and Systems²

C 474 Test Methods for Joint Treatment Materials for Gypsum Board Construction²

3. Terminology

3.1 *Definitions*—Definitions shall be in accordance with Terminology C 11.

3.2 Definitions of Terms Specific to This Standard:

3.2.1 *joint-tape, n*—a strip of paper reinforcing material designed to be embedded in the joint compound.

4. Physical Properties

4.1 *General*—The physical properties shall be determined in accordance with Test Methods C 474.

4.2 Joint Compounds.

4.2.1 *Check Cracking*—No cracks in the thinner half of the wedge and no deep fissure cracks in the thicker half of the wedge.

4.2.2 *Putrefaction*—No putrefaction in less than 4 days.

4.2.3 *Shrinkage*—Not more than 35 % by volume.

4.3 Joint Tape:

4.3.1 *Width*—Shall be not less than 1 $\frac{7}{8}$ in. (47.6 mm) nor more than 2 $\frac{1}{4}$ in. (57.2 mm). The width of an individual roll

shall vary not more than $\pm 1/32$ in. (0.8 mm).

4.3.2 *Thickness*—Shall be not more than 0.012 in. (0.30 mm).

4.3.3 *Tensile Strength*—Shall be not less than 30 lbf/in. (524 N/mm) in the cross direction.

4.3.4 *Dimensional Stability*—Shall expand not more than 0.4 % lengthwise and not more than 2.5 % crosswise.

4.4 Assembly of Taping or All-Purpose Compound and Joint Tape:

4.4.1 *Bond* between the joint tape and the joint compound shall be not less than 90 %.

4.4.2 *Edge Cracking* shall be not more than 10 % along the edges of the tape specimen.

5. Sampling

5.1 *Sampling of Joint Compound*—At least 1 %, but not less than one package or container shall be sampled and shall be so selected as to be representative of the shipment. The material so obtained shall be thoroughly blended and divided. Provide not less than one 6-lb (2.72-kg) sample for the test.

5.2 *Sampling of Joint Tape*—At least one roll for every ten cases or a fraction thereof, but not more than ten rolls per shipment shall constitute a sample.

6. Inspection

6.1 Inspection of the joint compound and joint tape shall be agreed upon between the purchaser and the supplier as part of the purchase agreement.

7. Rejection

7.1 Rejection of joint compound and joint tape that fails to conform to requirements of this specification shall be reported to the producer or supplier promptly and in writing. The notice of rejection shall contain a statement documenting how the joint compound or joint tape has failed to conform to the requirements of this specification.

8. Certification

8.1 When specified in the purchase agreement, a producer's or supplier's report shall be furnished at the time of shipment certifying that the product is in compliance with this specification.

¹ This specification is under the jurisdiction of ASTM Committee C-11 on Gypsum and Related Building Materials and Systems and is the direct responsibility of Subcommittee C11.02 on Specifications and Test Methods for Accessories and Related Products.

Current edition approved Aug. 15, 1994. Published October 1994. Originally published as C 475 – 61 T. Last previous edition C 475 – 93.

² *Annual Book of ASTM Standards*, Vol 04.01.