



Designation: ~~C318/C318M – 00 (Reapproved 2010)~~ C318/C318M – 13

Standard Specification for Gypsum Formboard¹

This standard is issued under the fixed designation C318/C318M; 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—Scope*

1.1 This specification covers the minimum requirements for gypsum formboard designed for use as a permanent form for poured-in-place reinforced gypsum concrete roof decks.

1.2 The values stated in either inch-pound units or SI (metric) are to be regarded separately as standard. Within the text, the SI units are shown in brackets. The values stated in each system shall be used independent of the other. Values from the two systems shall not be combined.

1.3 The text of this standard references notes which provide explanatory material. These notes shall not be considered requirements of the standard.

2. Referenced Documents

2.1 *ASTM Standards:*²

[C11 Terminology Relating to Gypsum and Related Building Materials and Systems](#)

[C22 Specification for Gypsum](#)

[C473 Test Methods for Physical Testing of Gypsum Panel Products](#)

[C1264 Specification for Sampling, Inspection, Rejection, Certification, Packaging, Marking, Shipping, Handling, and Storage of Gypsum Panel Products](#)

[G21 Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi](#)

3. Terminology

3.1 *Definitions*—Definitions of terms used in this standard shall be in accordance with Terminology [C11](#).

4. Materials and Manufacture

4.1 Gypsum formboard shall consist of a noncombustible core, essentially ~~gypsum~~, gypsum complying with Specification [C22](#), containing not more than 15 % by weight of fiber, either mineral or organic, synthetic or natural.

4.2 The face surface shall be specifically treated to resist fungus growth.

5. Physical Properties

5.1 Specimens shall be tested in accordance with Test Methods [C473](#).

NOTE 1—Since this product is laid between subpurlins without mechanical attachment, a nail pull requirement is not specified for this gypsum panel product.

5.1.1 Specimens shall be taken from the samples obtained in accordance with Specification [C1264](#).

5.1.2 *Flexural Strength*—The specimens shall be tested face up and face down. The average breaking load shall be not less than the following:

¹ This specification is under the jurisdiction of ASTM Committee [C11](#) on Gypsum and Related Building Materials and Systems and is the direct responsibility of Subcommittee [C11.01](#) Specifications and Test Methods for Gypsum Products.

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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.

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