



Designation: C 208 – 08

Standard Specification for Cellulosic Fiber Insulating Board¹

This standard is issued under the fixed designation C 208; 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 the principal cellulosic fiber insulating board types, grades, and sizes. Requirements are specified for composition, construction, physical properties, tolerances, sampling procedures, and test methods.

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

1.3 When the installation or use of thermal insulation materials, accessories, and systems may pose safety or health problems, the manufacturer shall provide the user appropriate current information regarding any known problems associated with the recommended use of the company's products and shall also recommend protective measures to be employed in their safe utilization. The user shall establish appropriate safety and health practices and determine the applicability of regulatory requirements prior to use.

2. Referenced Documents

2.1 ASTM Standards:²

- C 168 Terminology Relating to Thermal Insulation
- C 209 Test Methods for Cellulosic Fiber Insulating Board
- C 390 Practice for Sampling and Acceptance of Thermal Insulation Lots
- C 846 Practice for Application of Cellulosic Fiber Insulating Board for Wall Sheathing
- D 1037 Test Methods for Evaluating Properties of Wood-Base Fiber and Particle Panel Materials
- D 1554 Terminology Relating to Wood-Base Fiber and Particle Panel Materials
- D 2164 Methods of Testing Structural Insulating Roof Deck³

¹ This specification is under the jurisdiction of ASTM Committee C16 on Thermal Insulation and is the direct responsibility of Subcommittee C16.22 on Organic and Nonhomogeneous Inorganic Thermal Insulations.

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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.

³ Withdrawn.

E 72 Test Methods of Conducting Strength Tests of Panels for Building Construction

2.2 Federal Standard:

4900.1 Rev-1 U.S. Dept. of Housing and Urban Development Minimum Property Standards, One and Two Family Dwellings⁴

3. Terminology

3.1 For definitions of terms used in this specification, see Terminology C 168 and Definitions D 1554.

3.2 Definitions of Terms Specific to This Standard:

3.2.1 *cellulosic fiber insulating board*—a fibrous-felted, homogeneous panel made from ligno-cellulosic fibers (usually wood or cane) and having a density of less than 31 lb/ft³ (497 kg/m³) but more than 10 lb/ft³ (160 kg/m³).

3.2.1.1 *Discussion*—Cellulosic fiber insulating board is characterized by an integral bond which is produced by interfelting of the fibers, but which has not been consolidated under heat and pressure as a separate stage in manufacture. Other materials may be added during manufacture to improve certain properties.

4. Classification

4.1 Insulating board covered by this specification consists of six types:

4.1.1 *Type I*—Sound deadening board, for use in wall assemblies to control sound transmissions.

4.1.2 *Type II*—Roof insulation board, for use in various roofing systems.

4.1.2.1 *Grade 1*—Primarily for use under built up roof systems.

4.1.2.2 *Grade 2*—Primarily for use under single-ply roofing systems.

4.1.3 *Type III*—Ceiling tiles and panels.

4.1.3.1 *Grade 1*—Nonacoustical, for use as decorative wall and ceiling coverings.

4.1.3.2 *Grade 2*—Acoustical, for use as decorative, sound absorbing wall and ceiling coverings.

4.1.4 *Type IV*—Wall Sheathing.

⁴ Available from the U.S. Department of Housing and Urban Development, Construction Standards Division, HUD Building, Washington, DC 20410.

