



Designation: C728 – 15

Standard Specification for Perlite Thermal Insulation Board¹

This standard is issued under the fixed designation C728; 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 U.S. Department of Defense.

1. Scope

1.1 This specification covers the composition and physical properties for perlite thermal insulation board used principally above structural roof decks and as a base for built-up, modified, and elastomeric membrane roofing in building construction.

1.2 When adopted by an authority having jurisdiction, codes that address fire properties in many applications regulate the use of the thermal insulation materials covered by this specification. Fire properties are controlled by job, project, or other specifications where codes or government regulations do not apply.

1.3 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.

1.4 *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.*

2. Referenced Documents

2.1 The following standards, of the issue in effect on the date of material purchase, form a part of this specification to the extent specified herein:

2.2 *ASTM Standards:*²

C165 Test Method for Measuring Compressive Properties of Thermal Insulations

C168 Terminology Relating to Thermal Insulation

C177 Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of

the Guarded-Hot-Plate Apparatus

C203 Test Methods for Breaking Load and Flexural Properties of Block-Type Thermal Insulation

C209 Test Methods for Cellulosic Fiber Insulating Board

C390 Practice for Sampling and Acceptance of Thermal Insulation Lots

C518 Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus

C1289 Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board

E84 Test Method for Surface Burning Characteristics of Building Materials

C1763 Test Method for Water Absorption by Immersion of Thermal Insulation Materials

3. Terminology

3.1 For complete descriptions of terms used in this specification, refer to Terminology **C168**.

4. Classification

4.1 Perlite thermal insulation board is classified as follows:

4.1.1 *Type 1, Roof Insulation Board*—A perlite based roof insulation cover board.

4.1.2 *Type 2, Roof Cover or Recover Board*—This is used primarily as a field-applied cover board over other roof insulations or in reroofing applications. The product is also available to manufacturers of laminated rigid foam products as specified in Specification **C1289**, Type III.

4.1.3 *Type 3, Roof Cover or Recover Board*—A perlite based cover board that is field applied over other roof insulations or in re-roofing and recover applications. The product is also available to manufacturers of laminated rigid foam products as specified in Specification **C1289**, Type III.

5. Ordering Information

5.1 Orders shall at least include the following information:

5.1.1 Title and designation Specification C728.

5.1.2 Product name, nominal thickness and dimensions.

5.1.3 Quantity of material ordered.

5.1.4 Manufacturer's name, address, and telephone number.

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.