



Standard Specification for Sound-Absorbing Board, Fibrous Glass, Perforated Fibrous Glass Cloth Faced¹

This standard is issued under the fixed designation F2154; 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 This specification covers fibrous glass sound-absorbing board with a perforated fibrous glass cloth facing for sound reduction in ship spaces with high noise levels. This specification is primarily for materials used on ships. Additional requirements, testing, and certification are required for use of this material aboard U.S. Coast Guard inspected vessels in the United States.

1.2 This standard measures and describes the response of materials, products, or assemblies to heat and flame under controlled conditions, but does not by itself incorporate all factors required for fire hazard or fire risk assessment of materials, products, or assemblies under actual fire conditions.

1.3 *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 requirements prior to use.*

2. Referenced Documents

2.1 *ASTM Standards:*²

[C423 Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method](#)

[C634 Terminology Relating to Building and Environmental Acoustics](#)

[D3951 Practice for Commercial Packaging](#)

[E84 Test Method for Surface Burning Characteristics of Building Materials](#)

¹ This specification is under the jurisdiction of ASTM Committee F25 on Ships and Marine Technology and is the direct responsibility of Subcommittee F25.02 on Insulation/Processes.

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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.

2.2 *ANSI Standard:*

[ANSI/ASQC Z1.4 Sampling Procedures and Tables for Inspection by Attributes](#)³

2.3 *Other Documents:*

[46 CFR 164.012 Code of Federal Regulations—Interior Finishes for Merchant Vessels](#)⁴

[Navigation and Vessel Inspection Circular \(NVIC\) 9-97](#)⁵

3. Terminology

3.1 For definitions of terms used in this specification, see Terminology [C634](#).

4. Ordering Information

4.1 Title, number, and date of this specification.

4.2 First article sample, when required (see [7.1](#)).

4.3 Width and length required, if other than 24- by 36-in. (609.6- by 914.4-mm) board (see [8.1](#)).

4.4 Thickness required (see [8.2](#)).

4.5 Density of waffle board (see [10.1](#)).

4.6 Conformance inspection reports required (see [11.1](#)).

5. Materials and Manufacture

5.1 See typical construction details located in Supplementary Requirements Section S3.

6. Performance Requirements

6.1 *Surface Flame Spread and Smoke Generation Properties*—The sound-absorbing board shall meet the requirements for surface flame spread and smoke generation properties for

³ Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036, <http://www.ansi.org>.

⁴ Available from U.S. Government Printing Office Superintendent of Documents, 732 N. Capitol St., NW, Mail Stop: SDE, Washington, DC 20401, <http://www.access.gpo.gov>.

⁵ Available from Superintendent of Documents, P.O. Box 371954, Pittsburgh, PA 15250-7954.

an U.S. Coast Guard Approved Interior Finish in accordance with 46 CFR 164.012 or NVIC Circular 9-97.

6.2 *Facing Separation*—When the sound-absorbing board is cut or sawed, the threads of the fibrous glass cloth facing across

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