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ASTM C687 - 96 Standard Practice for Determination of Thermal Resistance of Loose-Fill Building Insulation

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Abbreviation

ASTM C687 - 96

Valid from

10/03/1996

Information provider

American Society of Testing and Materials

Author

American Society of Testing and Materials

Information type

ASTM Standard

Format

PDF

Cited By

[This resource is cited by 1 document \(show Citations\)](#)

Description

This practice presents a laboratory guide to determine the thermal resistance of loose-fill building insulations at mean temperatures between – 20 and 55°C (–4 to 131 °F).

Scope

This practice applies to a wide variety of loose-fill thermal insulation products including fibrous glass, rock/slag wool, or cellulosic fiber materials; granular types including vermiculite and perlite; pelletized products; and any other insulation material that may be installed pneumatically or poured in place. It does not apply to products that change their character after installation either by chemical reaction or the application of binders or adhesives, nor does it consider the effects of structures, containments, facings, or air films.

Since this practice is designed for reproducible product comparison, it measures the thermal resistance of an insulation material which has been preconditioned to a relatively dry state. Consideration of changes of thermal performance of a hygroscopic insulation by sorption of water is beyond the scope of this practice.

The sample preparation techniques outlined in this practice do not cover the characterization of loose-fill materials intended for enclosed applications. For those applications, a separate sample preparation technique that simulates the installed condition will be required. For those applications, however, other aspects of this practice should be applicable.

The values stated in SI units are to be regarded as the standard. The values given in parentheses are for information only.

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.

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- [AS/NZS 4859.1:2002](#)

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