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ASTM C653 - 97 Standard Guide for Determination of the Thermal Resistance of Low-Density Blanket-Type Mineral Fiber Insulation

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Abbreviation
ASTM C653 - 97
Valid from
10/02/1997

Information provider
American Society of Testing and Materials
Author
American Society of Testing and Materials
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ASTM Standard
Format
PDF

Cited By
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Description
This guide describes the calculation and interpolation of a thermal resistance value for low-density blanket-type insulation material at a particular density and thickness having been selected as representative of the product.

Scope
This guide describes the calculation and interpolation of a thermal resistance value for low-density blanket-type insulation material at a particular density and thickness having been selected as representative of the product. It requires measured values of this average density and thickness, as well as apparent thermal conductivity values determined by either Test Method C 177, C 518, or C 1114.

This guide applies to a density range for mineral-fiber material of roughly 6.4 to 48 kg/m³ (0.4 to 3.0 lb/ft³). It is primarily intended to apply to low-density, mineral-fiber mass insulation batts and blankets, exclusive of any membrane facings. Apparent thermal conductivity data for these products are commonly reported at a mean temperature of 23.9°C (75°F) and a hot-to-cold plate temperature difference of 27.8°C (50°F) or 22.2°C (40°F).

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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