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AS 2464.6-1983 Methods of testing thermal insulation - Method 6: Steady-state thermal transmission properties by means of the guarded hot plate

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Abbreviation

AS 2464.6-1983

Valid from

04/07/1983

Information provider

SAI Global

Author

Standards Australia

Information type

Australian Standard

Format

PDF

Cited By

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Description

This standard sets out the method for determining the steady-state thermal transmission properties of thermal insulating specimens using a guarded hotplate, within the limits set by Clauses 2.1, 2.2 and 2.3. For purposes of certification, this method is limited to specimens with thermal resistances greater than 0.017 m².K/W in all directions (see Note 1).

Scope

Notes:

1. Special techniques may be required for measuring surface temperatures with specimens having thermal resistances less than 0.1 m².K/W.
2. The accuracy of measurement on specimens of low-density thermal insulation by this standard may be difficult to verify and may require an extensive analysis of the equipment and/or a performance check using calibration standards having heat transmission characteristics and thickness similar to the test specimens. This standard is a primary method for measuring the thermal transmission properties of specimens, as only measurements of length, electrical power, and temperature difference are required.

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