



Practical thermal properties of building materials and products

Caractéristiques thermiques utiles des matériaux et des produits de construction

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- type 2, when the subject is still under technical development requiring wider exposure;
- type 3, when a technical committee has collected data of a different kind from that which is normally published as an International Standard ("state of the art", for example).

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ISO/TR 9165 was prepared by Technical Committee ISO/TC 163, *Thermal insulation*.

The reasons which led to the decision to publish this document in the form of a Technical Report type 2 are explained in the Introduction.

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0 Introduction

Whilst the technical committee accepts the need for an International Standard in this field, it recommends immediate publication in the form of a Technical Report which is urgently needed as guidance for developing national standards in this field. The technical committee will discuss this matter further to develop an International Standard.

1 Scope and field of application

This Technical Report deals only with the thermal characteristics of building materials and products related to thermal conductivity or thermal resistance. It gives the procedures needed to correct laboratory test values to practical values for building materials or products.

These practical thermal values are needed for use in calculations of thermal properties of building components, but the procedures given here may not be applicable to composite structures.

The procedures are in general applicable in the temperature range -30 to $+30$ °C.

No specific procedures for allowing for the influence of workmanship are given.

2 References

ISO 2859, *Sampling procedures and tables for inspection by attributes.*

ISO 3951, *Sampling procedures and charts for inspection by variables for percent defective.*

ISO 7345, *Thermal insulation — Physical quantities and definitions.*