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NSAI Standards

Standard Recommendation
S.R. CR 245:1986

# Thermal insulation - Classification of building materials according to their thermal insulation properties

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*This document replaces:*

*This document is based on:*
CR 245:1986

*Published:*
13 May, 1986

This document was published
under the authority of the NSAI
and comes into effect on:
24 September, 2011

ICS number:
91.100.99
91.120.10

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CEN

REPORT
RAPPORT
BERICHT

# CR 245

April 1986

UDC 699.86:691:620.1

**Key words :** Thermal insulation, Construction materials, Classifications, Characteristics, Reference to standards.

**English version**

## Thermal insulation. Classification of building materials according to their thermal insulation properties

Isolation thermique. Classification des matériaux utilisés dans la construction des bâtiments suivant leurs propriétés d'isolation thermique

Wärmeschutz. Klassifizierung von Baustoffen gemäss ihren Wärmedämmeigenschaften

This **CEN REPORT** has been established by Technical Committee CEN/TC 88 and has been approved on 1985-10-30 by the Technical Board on behalf of the Administrative Board of the European Committee for Standardization in accordance with CEN Internal Regulations.

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**European Committee for Standardization**
**Comité Européen de Normalisation**
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## BRIEF HISTORY

- This CEN Report was prepared by CEN/TC 88 "Classification of Building Materials according to their Thermal Insulation Properties", the Secretariat of which is assumed by DIN.

- Beginning of work: May 1977

- Decision to present the results to the CEN Secretariat as a CEN Report - Resolution 25 (Berlin 1982-5)-.

- Decision not to prepare test methods - Resolution 22 (Berlin 1982-2) - and to ask ISO/TC 163 to do this work - Resolution 24 (Berlin 1982-4)-.

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## 1 SCOPE AND FIELD OF APPLICATION

This Report has been prepared with a view to harmonizing trade in building materials used primarily for the thermal insulation of buildings. It enables building materials to be classified (Clause 2), using a code to designate the different form, structure and chemical composition of the materials with particular regard to their thermal insulation properties. These materials may be produced in the factory or on site.

A standard form for a summarized description of the properties of a particular product is given in Clause 3.

Not all properties listed in the form will be applicable to each product. Therefore the number of properties to be specified in each individual case shall be subject to agreement.

In addition, a list is provided of those properties which can be of significance in terms of thermal insulating properties of the various building products (Clause 5). Test methods are also indicated, with the aid of which the relevant physical characteristics can be determined.

Wherever they exist, ISO test methods shall be used but since few relevant ISO test methods exist, the test methods published by the Standards Organizations of CEN Members may be used by agreement between manufacturer and user. Where these do not exist, the test methods of other bodies such as ASTM may be used. In all cases the test method used shall be stated.

This Report does not take into account any aspects pertaining to fire protection or sound insulation.

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