
**Thermal insulating products
for building applications —
Determination of thickness for
floating-floor insulating products**

*Produits isolants thermiques destinés aux applications du bâtiment —
Détermination de l'épaisseur des produits d'isolation pour sol flottant*



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ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 163, *Thermal performance and energy use in the built environment*, Subcommittee SC 1, *Test and measurement methods*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 88, *Thermal insulating materials and products*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 29770:2008), which has been technically revised.

The main changes are as follows:

- the terms and definitions in [Clause 3](#) have been removed and replaced in [7.2.2](#) and [7.2.3](#);
- some editorial corrections.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Thermal insulating products for building applications — Determination of thickness for floating-floor insulating products

1 Scope

This document specifies the equipment and procedures for determining the thickness of thermal insulating products for impact sound insulation in floating-floor applications.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 29768, *Thermal insulating products for building applications — Determination of linear dimensions of test specimens*

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

4 Principle

The thickness is determined as the distance measured between a rigid, flat base plate on which the test specimen rests and a rigid, flat pressure plate exerting different specified pressures on the top surface of the test specimen.

5 Apparatus

5.1 Dial gauge, allowing readings to 0,1 mm, mounted on a rigid frame fastened to a rigid, flat base plate.

A device with the same accuracy for two readings of the thickness/deformation is placed symmetrically on a diagonal on the upper square plate of the device. The mean of these two readings is the thickness/deformation.

5.2 Base plate and pressure plate, at least as large as the test specimen.

5.3 Pressure device, capable of exerting a total pressure on the test specimen of $(0,250 \pm 0,05)$ kPa, including the force exerted by the dial gauge.

5.4 Pressure device, capable of exerting a total pressure on the test specimen of $(2 \pm 0,020)$ kPa, including the force exerted by the dial gauge.