INTERNATIONAL STANDARD

ISO 29465

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Thermal insulating products for building applications — Determination of length and width

Produits isolants thermiques destinés aux applications du bâtiment — Détermination de la longueur et de la largeur

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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.

ISO 29465 was prepared by Technical Committee ISO/TC 163, *Thermal performance and energy use in the built environment*, Subcommittee SC 1, *Test and measurement methods*.

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Introduction

This International Standard comprises the original EN 822:1994 prepared by Technical Committee CEN/TC 88, *Thermal insulating materials and products*, which has been amended by ISO/TC 163/SC 1 with reference to conditioning and testing conditions in tropical countries.

This International Standard is one of a series of documents specifying test methods, based on existing European Standards, that are being adopted by ISO. This "package" of standards includes the following group of interrelated documents.

International Standard	Respective EN standard
ISO 29465, Thermal insulating products for building applications — Determination of length and width	EN 822
ISO 29466, Thermal insulating products for building applications — Determination of thickness	EN 823
ISO 29467, Thermal insulating products for building applications — Determination of squareness	EN 824
ISO 29468, Thermal insulating products for building applications — Determination of flatness	EN 825
ISO 29469, Thermal insulating products for building applications—Determination of compression behaviour ISO 29465:2008	EN 826
ISO 29470, Thermal insulating products for building applications 3-0 Determination of the apparent density	EN 1602
ISO 29471, Thermal insulating products for building applications — Determination of dimensional stability under constant normal laboratory conditions (23°C/50 % relative humidity)	EN 1603
ISO 29472, Thermal insulating products for building applications — Determination of dimensional stability under specified temperature and humidity conditions	EN 1604
ISO 29764, Thermal insulating products for building applications — Determination of deformation under specified compressive load and temperature conditions	EN 1605
ISO 29765, Thermal insulating products for building applications — Determination of tensile strength perpendicular to faces	EN 1607
ISO 29766, Thermal insulating products for building applications — Determination of tensile strength parallel to faces	EN 1608
ISO 29767, Thermal insulating products for building applications — Determination of short-term water absorption by partial immersion	EN 1609
ISO 29768, Thermal insulating products for building applications — Determination of linear dimensions of test specimens	EN 12085
ISO 29769, Thermal insulating products for building applications — Determination of behaviour under point load	EN 12430

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ISO 29770, Thermal insulating products for building applications — Determination of thickness for floating-floor insulating products	EN 12431
ISO 29771, Thermal insulating materials for building applications — Determination of organic content	EN 13820
ISO 29803, Thermal insulation products for building applications — Determination of the resistance to impact of external thermal insulation composite systems (ETICS)	EN 13497
ISO 29804, Thermal insulation products for building applications — Determination of the tensile bond strength of the adhesive and of the base coat to the thermal insulation material	EN 13494
ISO 29805, Thermal insulation products for building applications — Determination of the mechanical properties of glass fibre meshes	EN 13496

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Thermal insulating products for building applications — Determination of length and width

1 Scope

This International Standard specifies the equipment and procedures for determining the length and width of full-size products. It is applicable to thermal insulating products.

2 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

2.1

length

i

longer linear dimension of the major surface of the test specimen.

2.2

width

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shorter linear dimension of the major surface of the test specimen, measured at right angles to the length https://standards.iteh.ai/catalog/standards/sist/79f73e23-0f4e-4434-a265-c0b56063b8ff/iso-29465-2008

3 Principle

A specimen is placed on a flat surface and direct linear measurement is made with a metal rule or a metal tape.

4 Apparatus

4.1 Flat surface.

4.2 Metal rule or **metal tape**, graduated in millimetres and permitting reading to an accuracy of 0,5 mm.

Any test equipment that provides the same result with at least the same accuracy may be used.

5 Test specimens

5.1 Dimensions of test specimens

The test specimen shall be the full-size product.

5.2 Number of test specimens

The number of test specimens shall be as specified in the relevant product standard.

In the absence of a product standard, the number of test specimens may be agreed between parties.

1

5.3 Conditioning of test specimens

The test specimens shall be stored for at least 6 h at (23 ± 5) °C. In cases of dispute, they shall be stored at (23 ± 2) °C and (50 ± 5) % relative humidity for the time specified in the relevant product standard.

In tropical countries, different conditioning and testing conditions can be relevant. In this case, the conditions shall be 27° C and 65 % RH, and be stated clearly in the test report.

6 Procedure

6.1 Test conditions

The test shall be carried out at (23 ± 5) °C. In case of dispute, it shall be carried out at (23 ± 2) °C and (50 ± 5) % relative humidity.

In tropical countries, different conditioning and testing conditions can be relevant. In this case, the conditions shall be 27 °C and 65 % RH, and be stated clearly in the test report.

6.2 Test procedure

Lay the test specimen carefully on a flat surface.

For test specimens with both dimensions less than or equal to 1,5 m, take one measurement of length, *l*, and one measurement of width, *b*, at the positions shown in Figure 1.

For test specimens greater than 1,5 m long, make one additional width measurement for each extra metre of length, up to a maximum of five measurements, with the measurements equally spaced as shown in Figure 2. In this case, b is the mean value of all measured values of the width.

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For test specimens greater than 1,5 m wide, make one additional length measurement for each extra 1 m of width, with the measurements equally spaced.

All lengths and widths shall be read to the nearest millimetre.

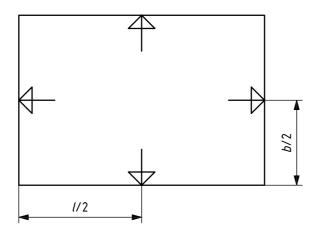
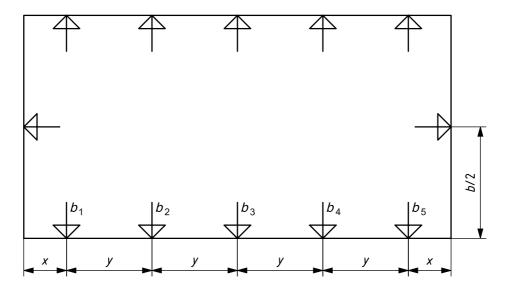


Figure 1 — Positions for measuring length and width of a test specimen where $l \le 1.5$ m and $b \le 1.5$ m



b is the mean value of all measured values of the width.

Figure 2 — Positions for measuring length and width of a test specimen where $l \geqslant$ 4,5 m and $b \leqslant$ 1,5 m

7 Calculation and expression of results D PREVIEW

The length and width shall be expressed in millimetres, to the nearest millimetre, as the mean value for each specimen.

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For products 3 m longron greater the mean length value shall be reported to the nearest 5 mm. c0b56063b8ff/iso-29465-2008

8 Accuracy of measurement

NOTE It has not been possible to include a statement of the accuracy of the method in this edition of this International Standard, but it is intended to include such a statement when this International Standard is next revised.

9 Test report

The test report shall include the following information:

- a) reference to this International Standard;
- b) product identification:
 - 1) product name, factory, manufacturer or supplier,
 - 2) production code number,
 - 3) type of product,
 - 4) packaging,
 - 5) form in which the product arrived at the laboratory,
 - 6) other information as appropriate, e.g. nominal thickness, nominal density;

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