



SLOVENSKI STANDARD

SIST EN 822:1997

01-december-1997

Toplotno izolacijski proizvodi za uporabo v gradbeništvu - Določanje širine in dolžine

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

Wärmedämmstoffe für das Bauwesen - Bestimmung der Länge und Breite

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

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Ta slovenski standard je istoveten z: EN 822:1994
SIST EN 822:1997
<https://standards.iteh.ai/catalog/standards/sist/5791b118-f270-46fa-9314-ed3ca16f6cfb/sist-en-822-1997>

ICS:

91.100.60	Materiali za toplotno in zvočno izolacijo	Thermal and sound insulating materials
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EUROPEAN STANDARD

EN 822

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 1994

UDC 699.86:691:620.1:531.71

Descriptors: Buildings, thermal insulation, thermal insulating materials, dimensional measurements, length, width

English version

**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

Wärmedämmstoffe für das Bauwesen - Bestimmung
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This European Standard was approved by CEN on 1994-07-22. CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

The European Standards exist in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

European Committee for Standardization.
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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Foreword

This European Standard has been prepared by CEN/TC 88 "Thermal Insulating Materials and Products", the secretariat of which is held by DIN.

This European Standard shall be given the status of a National Standard, either by publication of an identical text or by endorsement, at the latest by January 1995, and conflicting national standards shall be withdrawn at the latest by December 1996.

This European Standard is one of a series of standards which specify test methods for determining dimensions and properties of thermal insulating materials and products. It supports a series of product standards for thermal insulating materials and products which derive from the Council Directive of 21 December 1988 on the approximation of laws, regulations and administrative provisions of the Member States relating to construction products (Directive 89/106/EEC) through the consideration of the essential requirements.

This European Standard has been drafted for applications in buildings but it may also be used in other areas where it is relevant.

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EC Directive(s).

In pursuance of Resolution BT 20/1993 Revised CEN/TC 88 has proposed defining the standards listed below as a European "package" of standards, setting December 31, 1996 as the date of withdrawal (dow) of national standards which conflict with the European Standards of this package.

The "package" of standards comprises the following group of inter-related standards on test methods for determining dimensions and properties of thermal insulation materials and products, all of which come within the scope of CEN/TC 88:

- | | |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EN 822 | Thermal insulating products for building applications - Determination of length and width |
| EN 823 | Thermal insulating products for building applications - Determination of thickness |
| EN 824 | Thermal insulating products for building applications - Determination of squareness |
| EN 825 | Thermal insulating products for building applications - Determination of flatness |
| prEN 826 | Thermal insulating products for building applications - Determination of compression behaviour |
| | Thermal insulating products for building applications - Determination of the apparent density 1) |
| | Thermal insulating products for building applications - Determination of dimension and shape stability under constant normal laboratory conditions (23°C/50% relative humidity) 1) |

1) Standards are in preparation.

Thermal insulating products for building applications - Determination of dimensional stability under specified temperature and humidity conditions 1)

Thermal insulating products for building applications - Determination of deformation under specified compressive load and temperature conditions 1)

Thermal insulating products for building applications - Determination of compressive creep 1)

Thermal insulating products for building applications - Determination of tensile strength perpendicular to faces 1)

Thermal insulating products for building applications - Determination of tensile strength parallel to faces 1)

Thermal insulating products for building applications - Determination of short term water absorption by partial immersion 1)

Thermal insulating products for building applications - Determination of linear dimensions of test specimens 1)

Thermal insulating products for building applications - Determination of water vapour transmission properties 1)

Thermal insulating products for building applications - Determination of long term water absorption by immersion 1)
<https://standards.iteh.ai/catalog/standards/sist/379fb1f8-1270-46fa-9314-12e1168c8b7a/en-822-1997>

Thermal insulating products for building applications - Determination of long term water absorption by diffusion 1)

Thermal insulating products for building applications - Determination of bending behaviour 1)

Thermal insulating products for building applications - Determination of shear behaviour 1)

Thermal insulating products for building applications - Determination of freeze-thaw resistance 1)

According to the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom.

1) Standards are in preparation.

1 Scope

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

2 Normative references

This European Standard contains no normative references.

3 Definitions

For the purposes of this standard, the following definitions apply:

3.1 length, l : the longer linear dimension of the major surface of the test specimen.

3.2 width, b : the shorter linear dimension of the major surface of the test specimen, measured at right angles to the length.

4 Principle

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

5 Apparatus

5.1 A flat surface.

5.2 Metal rule or metal tape graduated in millimetres and permitting reading to 0,5 mm.

NOTE: Any test equipment which provides the same result with at least the same accuracy may be used.

6 Test specimens

6.1 Dimensions of test specimens

The test specimen shall be the full-size product.

6.2 Number of test specimens

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

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

6.3 Conditioning of test specimens

The test specimens should be stored for at least 6 h at $(23 \pm 5)^\circ\text{C}$. In case of dispute they shall be stored at $(23 \pm 2)^\circ\text{C}$ and $(50 \pm 5)\%$ relative humidity for the time specified in the relevant product standard.

7 Procedure

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7.1 Test conditions

The test should be carried out at $(23 \pm 5)^\circ\text{C}$. In case of dispute it shall be carried out at $(23 \pm 2)^\circ\text{C}$ and $(50 \pm 5)\%$ relative humidity.

7.2 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 in length, 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.

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

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

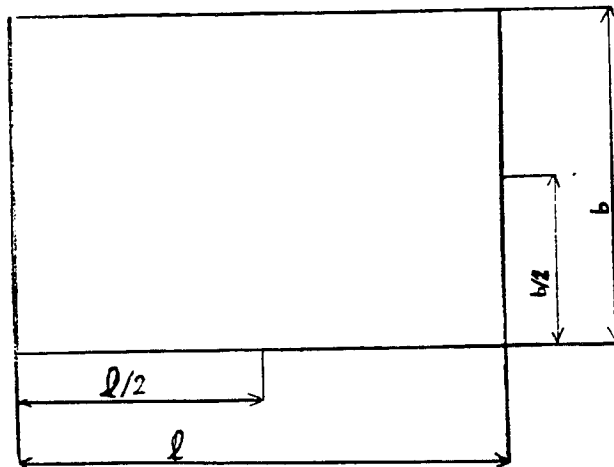


Figure 1: Positions for measurements of length and width of test specimens where both l and $b \leq 1,5$ m

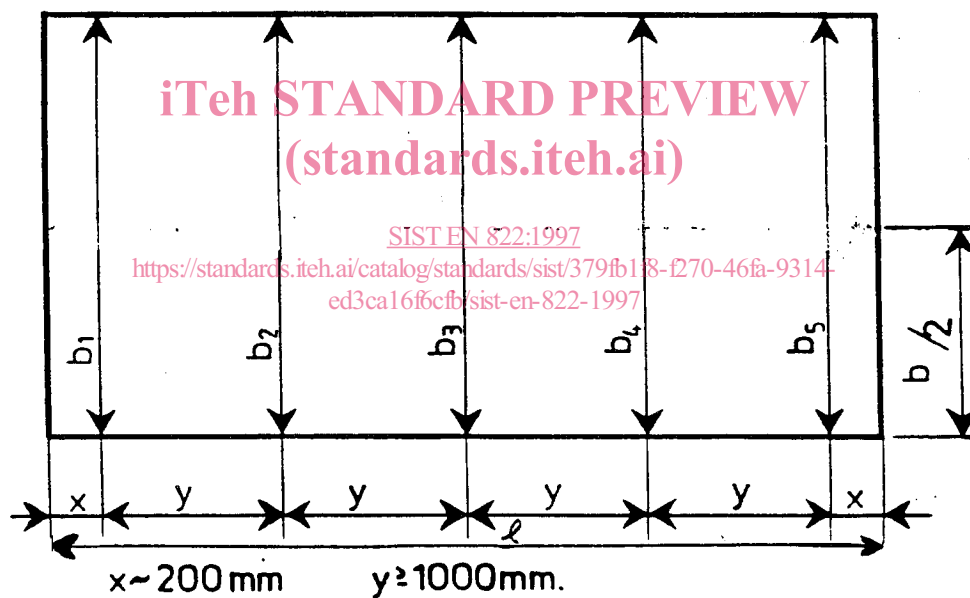


Figure 2: Positions for measurement of length and width of a test specimen where $l \geq 4,5$ m and $b \leq 1,5$ m
 b is the mean value of all measured values of width.

8 Calculation and expression of results

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

For products 3 m in length or greater, the length value shall be rounded to the nearest 5 mm.