



SLOVENSKI STANDARD
SIST EN 13172:2002/A1:2005
01-december-2005

Toplotnoizolacijski proizvodi – Ugotavljanje skladnosti

Thermal insulating products - Evaluation of conformity

Wärmedämmstoffe - Konformitätsbewertung

Produits isolants thermiques - Evaluation de la conformité

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Ta slovenski standard je istoveten z: EN 13172:2001/A1:2005

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ICS:

91.100.60 Thermal and sound insulating materials

SIST EN 13172:2002/A1:2005 en

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EUROPEAN STANDARD

EN 13172:2001/A1

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2005

ICS 91.100.60

English version

Thermal insulating products - Evaluation of conformity

Produits isolants thermiques - Evaluation de la conformité

Wärmedämmstoffe - Konformitätsbewertung

This amendment A1 modifies the European Standard EN 13172:2001; it was approved by CEN on 24 March 2005.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for inclusion of this amendment into the relevant 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.

This amendment exists 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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This European Standard (EN 13172:2001/A1:2005) has been prepared by Technical Committee CEN/TC 88 “Thermal insulating materials and products”, the secretariat of which is held by DIN.

This Amendment to the European Standard EN 13172:2001 shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by December 2005, and conflicting national standards shall be withdrawn at the latest by December 2005.

This amendment to EN 13172:2001 makes some corrections and clarifications and a re-arrangement to the text, viz,

- Terms and definitions have been modified and information on grouping have been added in Clause 4;
- Clause 7 is renamed as Annex F (informative) and the content has been revised;
- Annex A (informative, for voluntary certification) has been updated to avoid unnecessary testing in the case of nonconformity and Table A.1 has been updated to cover both the standards for factory made building products and for products for building equipment and industrial installations.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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EN 13172:2001/A1:2005 (E)**1 Scope**

This European Standard makes some corrections and clarifications as well as a rearrangement of some of its clauses as follows:

3 Terms and definitions**3.1****product**

item or good produced under conditions which are presumed uniform to a given specification and placed on the market

“Renumber 3.3 as 3.6”

“Renumber 3.4 as 3.7”

Three new definitions are added as follows:

3.3**production line**

assemblage of equipment that produces products using a continuous process

3.4**production unit**

assemblage of equipment that produces products using a discontinuous process

3.5**production plant/factory**

production equipment on the same site including all production lines and units

4 General requirements

Replace the following amended text of "4 General requirements":

The evaluation of conformity involves either a manufacturer or a manufacturer in conjunction with a third party. The procedure is given either in the relevant product standard or agreed between parties; it shall include at least those tasks given in Clause 5. The tasks for the third party and/or the manufacturer shall be carried out in accordance with the requirements of Clause 7 of the product standard, which makes reference to this standard and one or more of the Annexes B, C, or D for the purposes of CE marking.

NOTE Annex A is included for the purposes of voluntary product certification.

The content of Clause 5 will also be met by supplementing the provisions of EN ISO 9001 with requirements of this standard.

Products may be collected into product groups for *declaration and testing purposes* subject to the following conditions:

- they shall have the same type of production process and shall be derived from the same family of raw material; a distinction is made between glass wool and rock wool and between foams with different blowing agents;
- they shall differ only in aspects that do not influence the properties required in the relevant product standard;

- they shall be covered by a single thermal insulation standard, e.g. from the series EN 13162 to EN 13171;
- products which differ only with regard to some properties may be grouped together by their common properties;
- products which are identical except the facing and for which the different facings have been shown to have the same effect on the declared characteristics (e.g. regarding thermal properties, the gas tight facings of some PUR products), may be grouped.

Products covered by more than one European Standard may be grouped for *testing purposes only* providing that,

- they have a common production specification and that they are from the same type of production process and the same family of raw material, e.g. cellular glass for the EN 13167 and prEN 14305.

The properties outside this (these) common group(s) shall be tested product by product.

Products which are outside the scope of a product standard cannot be grouped for declaration purposes with products declared under the scope of that standard.

Providing that a product within the group meets the requirements of the product standard then all products within the same group shall be deemed to comply with the product standard for the properties concerned. If the same product fails to comply with the product standard then the whole group shall be assumed to have failed to comply with the product standard.”

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Annex A (informative)

Certification of conformity (not for CE marking purposes)

Delete A.2.4.3 and substitute the following:

A.2.4.3 Audit testing

Audit samples shall be taken for checking conformity with the product standard. Samples shall be taken at random normally during a routine inspection at the factory and they shall be representative of the normal production. Only if it is agreed between the approved body and the manufacturer, shall samples be taken from elsewhere.

The representative of the approved body shall ensure that the manufacturer is aware of his responsibility to forward the selected samples to the testing laboratory in proper condition and without undue delay.

Audit testing shall be conducted for the characteristics listed in Table A.1 at least once a year, except for the reaction to fire and lambda curve characteristics, where the frequency shall be once every 2 years. For each product group the approved body shall select one sample for test (from each factory).

Audit testing shall only be performed for the characteristics from Table A.1 if they are declared.

Testing shall be carried out in accordance with the relevant product standard bearing in mind the number of tests necessary to achieve one test result.

Where appropriate a comparison shall be made between the manufacturer's routine test results, results of witness testing, and the results of testing by the approved body.

Table A.1 - Audit testing to be performed in each factory

Characteristic	Test method
Thermal resistance – Thermal conductivity	EN 12667, Thermal performance of building materials and products – Determination of thermal resistance by means of guarded hot plate and heat flow meter methods – Products of high and medium thermal resistance and EN 12939, Thermal performance of building materials and products – Determination of thermal resistance by means of guarded hot plate and heat flow meter methods – Thick products of high and medium thermal resistance EN ISO 8497, Thermal insulation – Determination of steady-state thermal transmission properties of thermal insulation for circular pipes (where relevant)
Thickness	EN 823, Thermal insulating products for building applications – Determination of thickness or EN 12431, Thermal insulating products for building applications – Determination of thickness for floating floor insulation products EN 13467, Thermal insulation for building equipment and industrial installations – Determination of the dimensions, squareness and linearity of preformed pipe insulation (where relevant)
Reaction to fire	EN 13501-1, Fire classification of construction products and building elements – Part 1: Classification using test data from reaction to fire tests
Compressive stress or compressive strength	EN 826, Thermal insulating products for building applications – Determination of compression behaviour (where relevant)

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Delete A.2.4.4 and substitute the following:

A.2.4.4 Actions in the case of nonconformity

Identified cases of nonconformity are:

- defects that have been revealed by the approved body in the factory production control process/measurements;
- the manufacturer has not met his commitments according to A.2.4.2, thus preventing the approved body from performing its surveillance tasks properly;
- a product tested has failed to achieve the declared value in one or more of the properties listed in Table A.1.

In the case of nonconformity the following actions are required:

In the case of a) or b) the certification body shall ask the manufacturer to rectify the nonconformity and to report within four weeks. The approved body shall take further action depending on the particular circumstances. Such activities may include extraordinary inspection, in particular after failure of a routine inspection, or the approved body may accept documentary evidence that the fault has been rectified. If such a rectification is not documented, A.3.3.1 applies.

In the case of c) the approved body shall take a new sample of the product concerned within four weeks and retest all relevant characteristics without delay, in accordance with Table A.1, for this particular product. If some characteristics by nature of the product are not influenced (no change in the declared value) by changes in the characteristics that failed, those characteristics shall not be retested.