

Thermal insulating products for building applications — Determination of compressive creep

The European Standard EN 1606:1996, incorporating amendment A1:2006, has the status of a British Standard

ICS 91.100.99; 91.120.10

Committees responsible for this British Standard

The preparation of this British Standard was entrusted by Technical Committee B/540, Energy performance of materials, components and buildings, to Subcommittee B/540/1, European Standards for thermal insulation, upon which the following bodies were represented:

- Association of Building Component Manufacturers
- Association for the Conservation of Energy
- Association of Lightweight Aggregate Manufacturers
- Autoclaved Aerated Concrete Products Association
- Brick Development Association
- British Rigid Urethane Foam Manufacturers' Association
- British Vermiculite Association
- Building Employers' Confederation
- Chartered Institution of Building Services Engineers
- Concrete Block Association
- Cork Industry Federation
- Department of the Environment (Building Research Establishment)
- Department of the Environment (Construction Directorate)
- Department of Trade and Industry (National Physical Laboratory)
- Eurisol (UK Mineral Wool Association)
- European Phenolic Foam Association
- Glass and Glazing Association
- Meteorological Office
- National House-building Council
- Thermal Insulation Contractors' Association
- Thermal Insulation Manufacturers' and Suppliers' Association (TIMSA)
- Wood Wool Slab Manufacturers' Association

This British Standard, having been prepared under the direction of the Sector Board for Building and Civil Engineering, was published under the authority of the Standards Board and comes into effect on 15 June 1997

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The following BSI references relate to the work on this standard:
Subcommittee reference B/540/1
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Amendments issued since publication

Amd. No.	Date	Comments
9745	November 1997	Incorporation of CEN corrigenda. Changes to contents page, Clause 9 and Table B.1
16805	29 December 2006	See national foreword

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National foreword

This British Standard was published by BSI. It is the UK implementation of EN 1606:1996, incorporating amendment A1:2006.

The start and finish of text introduced or altered by amendment is indicated in the text by tags A1 A1. Tags indicating changes to CEN text carry the number of the CEN amendment. For example, text altered by CEN amendment A1 is indicated by A1 A1.

The UK participation in its preparation was entrusted by Technical Committee B/540, Energy performance of materials, components and buildings, to Subcommittee B/540/1, European standards for thermal insulation.

A list of organizations represented on B/540/1 can be obtained on request to its secretary.

This British Standard is one of several general test methods for thermal insulating products for building applications, the EN versions of which are being prepared in CEN/TC 88. This British Standard will be implemented in the United Kingdom, and all conflicting national standards or Parts of standards withdrawn, when the complete series of standards comprising test methods and product specifications has been published.

Cross-reference

Publication referred to	Corresponding British Standard
EN 826:1996	BS EN 826:1996 <i>Thermal insulating products for building applications — Determination of compression behaviour</i>

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard cannot confer immunity from legal obligations.

Descriptors: Buildings, thermal insulation, thermal insulating materials, compression tests, creep tests, testing conditions

English version

Thermal insulating products for building applications — Determination of compressive creep

Produits isolants thermiques destinés aux
applications du bâtiment — Détermination
du fluage en compression

Wärmedämmstoffe für das Bauwesen —
Bestimmung des Langzeit-Kriechverhaltens
bei Druckbeanspruchung

This European Standard was approved by CEN on 1996-10-05. 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.

This European Standard 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 organizations 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

Foreword

This European Standard has been prepared by Technical Committee 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 May 1997, and conflicting national standards shall be withdrawn at the latest by December 1997.

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 contains two annexes:

- Annex A (normative) — Calculation method
- Annex B (informative) — Example of a linear regression analysis

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

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, 1997 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.*

EN 826, *Thermal insulating products for building applications — Determination of compression behaviour.*

EN 1602, *Thermal insulating products for building applications — Determination of the apparent density.*

EN 1603, *Thermal insulating products for building applications — Determination of dimensional stability under constant normal laboratory conditions (23 °C/50 % relative humidity).*

EN 1604, *Thermal insulating products for building applications — Determination of dimensional stability under specified temperature and humidity conditions.*

EN 1605, *Thermal insulating products for building applications — Determination of deformation under specified compressive load and temperature conditions.*

EN 1606, *Thermal insulating products for building applications — Determination of compressive creep.*

EN 1607, *Thermal insulating products for building applications — Determination of tensile strength perpendicular to faces.*

EN 1608, *Thermal insulating products for building applications — Determination of tensile strength parallel to faces.*

EN 1609, *Thermal insulating products for building applications — Determination of short term water absorption by partial immersion.*

prEN 12085, *Thermal insulating products for building applications — Determination of linear dimensions of test specimens.*

prEN 12086, *Thermal insulating products for building applications — Determination of water vapour transmission properties.*

prEN 12087, *Thermal insulating products for building applications — Determination of long term water absorption by immersion.*

prEN 12088, *Thermal insulating products for building applications — Determination of long term water absorption by diffusion.*

prEN 12089, *Thermal insulating products for building applications — Determination of bending behaviour.*

prEN 12090, *Thermal insulating products for building applications — Determination of shear behaviour.*

prEN 12091, *Thermal insulating products for building applications — Determination of freeze-thaw resistance.*

According to the CEN/CENELEC Internal Regulations, the national standards organizations of 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 and the United Kingdom.

Foreword to amendment A1

This document (EN 1606:1996/A1:2006) 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 1606:1996 shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by March 2007, and conflicting national standards shall be withdrawn at the latest by March 2007.

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, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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