

Nederlandse norm

NEN-EN 13163+A1

(en)

Producten voor thermische isolatie van gebouwen
- Fabrieksmatig vervaardigde producten van
geëxpandeerd polystyreen (EPS) -
Specificatie

Thermal insulation products for buildings -
Factory made expanded polystyrene (EPS)
products - Specification

Vervangt NEN-EN 13163:2012;
NEN-EN 13163:2012/Ontw. A1:2014

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Als Nederlandse norm is aanvaard:
 - EN 13163:2012+A1:2015,INT

Normcommissie 353033 "Thermische isolatiematerialen"



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Nederlands voorwoord

Voor de in deze norm vermelde normatieve verwijzingen bestaan in Nederland de volgende equivalenten:

<u>vermelde norm</u>	<u>Nederlandse norm</u>	<u>titel</u>
EN 822	NEN-EN 822	Materialen voor de thermische isolatie van gebouwen - Bepaling van lengte en breedte
EN 823	NEN-EN 823	Materialen voor de thermische isolatie van gebouwen - Bepaling van de dikte
EN 824	NEN-EN 824	Materialen voor de thermische isolatie van gebouwen - Bepaling van de haaksheid
EN 825	NEN-EN 825	Materialen voor de thermische isolatie van gebouwen - Bepaling van de vlakheid
EN 826	NEN-EN 826	Materialen voor de thermische isolatie van gebouwen - Bepaling van de samendrukbaarheid
EN 1602	NEN-EN 1602	Materialen voor de thermische isolatie van gebouwen - Bepaling van de schijnbare dichtheid
EN 1603	NEN-EN 1603	Materialen voor de thermische isolatie van gebouwen - Bepaling van de dimensionele stabiliteit bij constante laboratoriumomstandigheden (23°C/50% relatieve vochtigheid)
EN 1604	NEN-EN 1604	Materialen voor de thermische isolatie van gebouwen - Bepaling van de dimensionele stabiliteit bij gespecificeerde temperatuurs- en vochtigheidsomstandigheden
EN 1605	NEN-EN 1605	Materialen voor de thermische isolatie van gebouwen - Bepaling van de vervorming bij gespecificeerde drukbelasting en temperatuursomstandigheden
EN 1606	NEN-EN 1606	Materialen voor de thermische isolatie van gebouwen - Bepaling van de kruip bij drukbelasting
EN 1607	NEN-EN 1607	Materialen voor de thermische isolatie van gebouwen - Bepaling van de treksterkte loodrecht op de oppervlakte
EN 12085	NEN-EN 12085	Materialen voor de thermische isolatie van gebouwen - Bepaling van de lineaire afmetingen van proefstukken
EN 12086:1997	NEN-EN 12086:1997	Materialen voor de thermische isolatie van gebouwen - Bepaling van de waterdampdoorlatendheidseigenschappen
EN 12087	NEN-EN 12087	Materialen voor de thermische isolatie van gebouwen - Bepaling van de wateropname bij langdurige onderdompeling
EN 12088	NEN-EN 12088	Materialen voor de thermische isolatie van gebouwen - Bepaling van de wateropname door diffusie
EN 12089	NEN-EN 12089	Materialen voor de thermische isolatie van gebouwen - Bepaling van het gedrag bij belasting op buiging
EN 12090	NEN-EN 12090	Materialen voor de thermische isolatie van gebouwen - Bepaling van het gedrag bij belasting op afschuiving
EN 12091	NEN-EN 12091	Materialen voor de thermische isolatie van gebouwen - Bepaling van de weerstand tegen bevrozing en dooien
EN 12429	NEN-EN 12429	Materialen voor de thermische isolatie van gebouwen - Conditionering tot evenwichtsvochtgehalte bij gegeven temperatuur en vochtigheid
EN 12431	NEN-EN 12431	Materialen voor de thermische isolatie van gebouwen - Bepaling van de dikte van isolatieproducten in zwevende vloeren
EN 12667	NEN-EN 12667	Thermische eigenschappen van bouwmaterialen en producten - Bepaling van de warmte weerstand volgens de methode met afgeschermd "hot plate" en de methode met warmtestroommeter - Producten met een gemiddelde en een hoge warmte weerstand

EN 12939	NEN-EN 12939	Thermische eigenschappen van bouwmaterialen en producten - Bepaling van de warmteweerstand volgens de methoden met de afgeschermd "hot plate" en de warmtestroommeter - Dikke producten met een hoge en een gemiddelde warmteweerstand
EN 13172:2012	NEN-EN 13172:2012	Producten voor thermische isolatie - Conformiteitsbeoordeling
EN 13501-1	NEN-EN 13501-1+A1	Brandclassificatie van bouwproducten en bouwdelen - Deel 1: Classificatie op grond van resultaten van beproeving van het brandgedrag
EN 13793	NEN-EN 13793	Materialen voor de thermische isolatie van gebouwen - Bepaling van het gedrag onder cyclische belasting
EN 13820	NEN-EN 13820	Materialen voor de thermische isolatie van gebouwen - Bepaling van het gehalte aan organische bestanddelen
EN 13823	NEN-EN 13823+A1	Bepaling van het brandgedrag van bouwproducten - Bouwproducten, met uitzondering van vloerafwerkingen, blootgesteld aan een thermische aanval met een brandend voorwerp
EN 15715:2009	NEN-EN 15715:2009	Thermische isolatieproducten - Instructies voor bevestigingen en aansluitingen voor reacties op brandbeproevingen - Fabrieksmatig vervaardigde producten
EN 29052-1	NEN-ISO 9052-1	Akoestiek - Bepaling van de dynamische stijfheid - Deel 1: Materialen gebruikt onder zwevende vloeren in woningen
EN ISO 1182	NEN-EN-ISO 1182	Bepaling van het brandgedrag van bouwproducten - Beproeving van de onbrandbaarheid
EN ISO 1716	NEN-EN-ISO 1716	Bepaling van het brandgedrag van bouwproducten - Bepaling van de verbrandingswarmte
EN ISO 9229:2007	NEN-EN-ISO 9229:2007	Thermische isolatie - Termen en definities
EN ISO 11925-2	NEN-EN-ISO 11925-2	Brandgedragproeven - Ontvlambaarheid van bouwproducten bij directe blootstelling aan vlammen - Deel 2: Beproeving met vlammen uit één bron
ISO 16269-6:2005	NEN-ISO 16269-6:2005	Statistische interpretatie van gegevens - Deel 6: Bepaling van statistische tolerantie-intervallen

EUROPEAN STANDARD

EN 13163:2012+A1

NORME EUROPÉENNE

EUROPÄISCHE NORM

February 2015

ICS 91.100.60

Supersedes EN 13163:2012

English Version

Thermal insulation products for buildings - Factory made expanded polystyrene (EPS) products - Specification

Produits isolants thermiques pour le bâtiment - Produits manufacturés en polystyrène expansé (EPS) - Spécification

Wärmedämmstoffe für Gebäude - Werkmäßig hergestellte Produkte aus expandiertem Polystyrol (EPS) - Spezifikation

This European Standard was approved by CEN on 6 October 2012 and includes Amendment 1 approved by CEN on 15 December 2014.

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Foreword

This document (EN 13163:2012+A1:2015) 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 August 2015, and conflicting national standards shall be withdrawn at the latest by November 2016.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

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

A1 For relationship with EU Construction Products Regulation (CPR), see informative Annex ZA, which is an integral part of this standard. **A1**

This document supersedes **A1** EN 13163:2012 **A1**.

This document includes Amendment 1 approved by CEN on 2014-12-15.

The start and finish of text introduced or altered by amendment is indicated in the text by tags **A1** **A1**.

The main changes to EN 13163:2008 are:


- a) better harmonisation between the individual standards of the package (EN 13162 to EN 13171) on definitions, requirements, classes and levels;
- b) new annex on multi-layered products;
- c) new annex on voluntary verification of the reaction to fire classification of raw materials;
- d) changes on some editorial and technical content and addition of information on some specific items such as for EPS dimensional stability, compressibility;
- e) addition of links to EN 15715, *Thermal insulation products — Instructions for mounting and fixing for reaction to fire testing — Factory made products*;
- f) changes to the Annex ZA.

A1 Amendment 1 modifies EN 13163:2012 identifying those clauses of the standard which are needed for the compliance of the European Standard with the Construction Products Regulation (CPR).

This amendment introduces

- g) an addition to the foreword;
- h) an addition in 3.2;
- i) a new subclause 4.3.19;
- j) modification of Clause 7;
- k) modification of Clause 8;

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- l) modification of Annex B;
- m) modification of Annex E;
- n) a new Annex ZA. 

This standard is one of a series of standards for thermal insulation products used in buildings, but this standard may be used in other areas where appropriate.

In pursuance of Resolution BT 20/1993 revised, CEN/TC 88 have proposed defining the standards listed below as a European package of standards.

The package of standards comprises the following group of interrelated standards for the specifications of factory made thermal insulation products, all of which come within the scope of CEN/TC 88:

EN 13162, *Thermal insulation products for buildings — Factory made mineral wool (MW) products — Specification*

EN 13163, *Thermal insulation products for buildings — Factory made expanded polystyrene (EPS) products — Specification*

EN 13164, *Thermal insulation products for buildings — Factory made extruded polystyrene foam (XPS) products — Specification*

EN 13165, *Thermal insulation products for buildings — Factory made rigid polyurethane foam (PU) products — Specification*

EN 13166, *Thermal insulation products for buildings — Factory made phenolic foam (PF) products — Specification*

EN 13167, *Thermal insulation products for buildings — Factory made cellular glass (CG) products — Specification*

EN 13168, *Thermal insulation products for buildings — Factory made wood wool (WW) products — Specification*

EN 13169, *Thermal insulation products for buildings — Factory made expanded perlite board (EPB) products — Specification*

EN 13170, *Thermal insulation products for buildings — Factory made products of expanded cork (ICB) — Specification*

EN 13171, *Thermal insulation products for buildings — Factory made wood fibre (WF) products — Specification*

The reduction in energy used and emissions produced during the installed life of insulation products exceeds by far the energy used and emissions made during the production and disposal processes.

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

1 Scope

This European Standard specifies the requirements for factory made expanded polystyrene products, with or without rigid or flexible facings or coatings, which are used for the thermal insulation of buildings. The products are manufactured in the form of boards or rolls or other preformed ware (flat, tapered, tongue and grooves, shiplap, profiled etc.).

Products covered by this standard are also used for sound insulation and in prefabricated thermal insulation systems and composite panels; the performance of systems incorporating these products is not covered.

This standard describes product characteristics and includes procedures for testing, evaluation of conformity, marking and labelling.

This standard does not specify the required class or level of a given property to be achieved by a product to demonstrate fitness for purpose in a particular application. The classes and levels required for a given application are to be found in regulations or non-conflicting standards.

Products with a declared thermal resistance lower than 0,25 m²·K/W or a declared thermal conductivity at 10 °C greater than 0,060 W/(m·K) are not covered by this standard.

This standard does not cover in-situ insulation products (covered by FprEN 16025-1 and -2), products intended to be used for the insulation of building equipment and industrial installations (covered by EN 14309), products intended to be used in civil engineering applications (covered by EN 14933) and products intended to be used in beam and block systems in floors (covered by EN 15037-4).

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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*

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

EN 12086:1997, *Thermal insulating products for building applications — Determination of water vapour transmission properties*

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

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

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

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

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

EN 12429, *Thermal insulating products for building applications — Conditioning to moisture equilibrium under specified temperature and humidity conditions*

EN 12431, *Thermal insulating products for building applications — Determination of thickness for floating floor insulation products*

EN 12667, *Thermal performance of building material and products — Determination of thermal resistance by means of guarded hot plate and heat flow meter methods — Products of high and medium thermal resistance*

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 13172:2012, *Thermal insulation products — Evaluation of conformity*

EN 13501-1, *Fire classification of construction products and building elements — Part 1: Classification using data from reaction to fire tests*

EN 13793, *Thermal insulating products for building applications — Determination of behaviour under cyclic loading*

EN 13820, *Thermal insulating materials for building applications — Determination of organic content*

EN 13823, *Reaction to fire tests for building products — Building products excluding floorings exposed to the thermal attack by a single burning item*

EN 15715:2009, *Thermal insulation products — Instructions for mounting and fixing for reaction to fire testing - Factory made products*

EN 29052-1, *Acoustics — Determination of dynamic stiffness — Part 1: Materials used under floating floors in dwellings (ISO 9052-1)*

EN ISO 1182, *Reaction to fire tests for building products — Non-combustibility test (ISO 1182)*

EN ISO 1716, *Reaction to fire tests for products — Determination of the gross heat of combustion (calorific value) (ISO 1716)*

EN ISO 9229:2007, *Thermal insulation — Vocabulary (ISO 9229:2007)*

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