საქართველოს სტანდარტი

თერმული იზოლაციის პროდუქტები სამშენებლო მოწყობილობებისა და სამრეწველო გამოყენებისათვის- ქარხანულად დამზადებული პროდუქტები გაფართოებული პოლისტირონის(EPS)- სპეციფიკაციები

საინფორმაციო მონაცემები

- 1 **შემუშავებულია** საქართველოს სტანდარტების და მეტროლოგიის ეროვნული სააგენტოს სტანდარტების დეპარტამენტის მიერ
- 2 დამტკიცებულია და შემოღებულია სამოქმედოდ საქართველოს სტანდარტების და მეტროლოგიის ეროვნული სააგენტოს 2018 წლის 29 აგვისტოს № 86 განკარგულებით
- 3 მიღებულია გარეკანის თარგმნის მეთოდით სტანდარტიზაციის ევროპული კომიტეტის სტანდარტი ენ 14309:2009+A1:2013 ,, თერმული იზოლაციის პროდუქტები სამშენებლო მოწყობილობებისა და სამრეწველო გამოყენებისათვის- ქარხანულად დამზადებული პროდუქტები გაფართოებული პოლისტირონის(EPS)- სპეციფიკაციები"

4 პირველად

5 რეგისტრირებულია საქართველოს სტანდარტების და მეტროლოგიის ეროვნული სააგენტოს რეესტრში: 2018 წლის 29 აგვისტო N268-1.3-014006

აკრძალულია ამ სტანდარტის გადაცემა მესამე პირებისათვის ან/და მისი სხვა ფორმით გავრცელება

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN 14309:2009+A1

January 2013

ICS 91.100.60

Supersedes EN 14309:2009

English Version

Thermal insulation products for building equipment and industrial installations - Factory made products of expanded polystyrene (EPS) - Specification

Produits isolants thermiques pour l'équipement du bâtiment et les installations industrielles - Produits manufacturés en polystyrène expansé (PSE) - Spécification

Wärmedämmstoffe für die technische Gebäudeausrüstung und für betriebstechnische Anlagen in der Industrie -Werkmäßig hergestellte Produkte aus expandiertem Polystyrol (EPS) - Spezifikation

This European Standard was approved by CEN on 29 September 2009 and includes Amendment 1 approved by CEN on 11 November 2012.

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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of 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 United Kingdom.



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

Management Centre: Avenue Marnix 17, B-1000 Brussels

Con	tents	Page
Forew	vord	4
1	Scope	6
2	Normative references	6
3	Terms, definitions, symbols, units and abbreviated terms	8
4	Requirements	11
5	Test methods	20
6	Designation code	24
7	Evaluation of Conformity	25
8	Marking and labelling	26
Annex	A (normative) Factory production control	27
Annex	B (normative) Product classification	34
Annex	C (normative) Determination of minimum service temperature	35
Annex	CD (informative) Additional properties	39
Annex	x ZA (informative) Clauses of this European Standard addressing the provisions of the EU Construction Products Directive	42
Biblio	graphy	50
indire Figure	e A.1 — Relationship between compressive stress at 10 % deformation and apparent decomposition and apparent decompositions; 1 – α = 90; n = 495	31 less and
	mean temperature) and apparent density for indirect testing; $1 - \alpha = 90$; $n = 3.873$	
Tables	e ZA.1 — Example of CE marking information	49
		40
	1 — Dimensional tolerances	
	2 — Classes of dimensional stability under normal laboratory conditions	
	3 — Levels of dimensional stability under specified temperature and humidity conditions	
	4 — Levels for compressive stress at 10 % deformation	
	5 — Levels for tensile strength perpendicular to faces	
	6 — Levels of bending strength	
	7 — Levels for long time water absorption by total immersion	
	8 — Levels for long time water absorption by diffusion	
	9 — Levels for dynamic stiffness	
ı avit	IV — CIGSSES IVI (IIICKIIESS (VIEIGIICES	19

Table 11 — Levels for compressibility	20
Table 12 — Test methods, test specimens, conditions	22
Table A.1 — Minimum product testing frequencies	27
Table A.2 — Minimum product testing frequencies for the reaction to fire characteristics	29
Table A.3 — Thickness effect parameter, L , for the determination of the declared $thermal\ conduction$	-
Table B.1 — Classification of EPS products	34
Table B.2 — Classification of load bearing EPS products with acoustical properties	34
Table D.1 — Correlation between bending strength and shear strength	39
Table D.2 — Tabulated values of water vapour diffusion resistance index and water va	
Table D.3 — Test methods	41
Table ZA.1 — Relevant clauses	43
Table ZA.2 — System(s) of attestation of conformity	4 4
Table ZA.3 — Assignment of evaluation of conformity tasks for products under system 1	45
Table ZA.4 — Assignment of evaluation of conformity tasks for products under system 3 or system binder system 4 for reaction to fire	

Foreword

This document (EN 14309:2009+A1:2013) 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 July 2013, and conflicting national standards shall be withdrawn at the latest by July 2013.

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 supersedes EN 14309:2009.

This document includes Amendment 1 approved by CEN on 2012-11-11.

The start and finish of text introduced or altered by amendment is indicated in the text by tags [A].

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 89/106/EEC.

For relationship with EU Directive 89/106/EEC, see informative Annex ZA, which is an integral part of this document.

Locally responsible authorities and contracting entities, who are bound by EU Directives to specify their requirements using European harmonized product standards, are allowed to demand additional properties outside the provisions of this standard if this is technically necessary because of prevailing operational conditions of the building equipment or the industrial installation projected or because of safety regulations.

This European Standard contains five Annexes:

- Annex A (normative), Factory production control
- Annex B (normative), Product classification
- Annex C (normative), Determination of minimum service temperature
- Annex D (informative), Additional properties
- Annex ZA (informative), Clauses of this European Standard addressing the provisions of the EU Construction Products Directive

This document includes a bibliography.

This European Standard is one of a series of standards for insulation products used in building equipment and industrial installations, but this standard can 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, setting 21 months after availability 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 interrelated standards for the specifications of factory made thermal insulation products, all of which come within the scope of CEN/TC 88:

EN 14303, Thermal insulation products for building equipment and industrial installations — Factory made mineral wool (MW) products — Specification

- EN 14304, Thermal insulation products for building equipment and industrial installations Factory made flexible elastomeric foam (FEF) products Specification
- EN 14305, Thermal insulation products for building equipment and industrial installations Factory made cellular glass (CG) products Specification
- EN 14306, Thermal insulation products for building equipment and industrial installations Factory made calcium silicate (CS) products Specification
- EN 14307, Thermal insulation products for building equipment and industrial installations Factory made extruded polystyrene foam (XPS) products Specification
- EN 14308, Thermal insulation products for building equipment and industrial installations Factory made rigid polyurethane foam (PUR) and polyisocyanurate foam (PIR) products Specification
- EN 14309, Thermal insulation products for building equipment and industrial installations Factory made products of expanded polystyrene (EPS) Specification
- EN 14313, Thermal insulation products for building equipment and industrial installations Factory made polyethylene foam (PEF) products Specification
- EN 14314, Thermal insulation products for building equipment and industrial installations Factory made phenolic foam (PF) products Specification

According to the CEN/CENELEC Internal Regulations, the national standards organizations 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.