საქართველოს სტანდარტი

თერმული იზოლაციის პროდუქტები სამშენებლო მოწყობილობებისა და სამრეწველო გამოყენებისათვის- ქარხანულად დამზადებული მყარი პოლიურეთანის (PUR) და პოლიზიოვანური ქაფის (PIR) პროდუქტები-სპეციფიკაციები

სსტ ენ 14308:2009+A1:2013/2018

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 14308:2009+A1:2013 ,, თერმული იზოლაციის პროდუქტები სამშენებლო მოწყობილობებისა და სამრეწველო გამოყენებისათვის- ქარხანულად დამზადებული მყარი პოლიურეთანის (PUR) და პოლიზიოვანური ქაფის (PIR) პროდუქტები-სპეციფიკაციები"

4 პირველად

5 რეგისტრირებულია საქართველოს სტანდარტების და მეტროლოგიის ეროვნული სააგენტოს რეესტრში: 2018 წლის 29 აგვისტო №268-1.3-014005

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN 14308:2009+A1

January 2013

ICS 91.100.60

Supersedes EN 14308:2009

English Version

Thermal insulation products for building equipment and industrial installations - Factory made rigid polyurethane foam (PUR) and polyisocyanurate foam (PIR) products - Specification

Produits isolants thermiques pour l'équipement du bâtiment et les installations industrielles - Produits manufacturés en mousse rigide de polyuréthane (PUR) et en mousse polyisocyanurate (PIR) - Spécification

Wärmedämmstoffe für die technische Gebäudeausrüstung und für betriebstechnische Anlagen in der Industrie -Werkmäßig hergestellte Produkte aus Polyurethan-Hartschaum (PUR) und Polyisocyanurat-Schaum (PIR) -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

Cont	ents	Page
Forewo	ord	4
1	Scope	6
2	Normative references	6
3	Terms, definitions, symbols, units and abbreviated terms	7
4	Requirements	11
5	Test methods	17
6	Designation code	20
7	Evaluation of conformity	21
8	Marking and labelling	22
Annex	A (normative) Factory production control	23
Annex	B (normative) Determination of minimum service temperature	27
Annex	C (normative) Determination of the aged value of thermal conductivity and thermal resistance	33
Annex	D (informative) Additional properties	41
Annex	ZA (informative) Clauses of this European Standard addressing the provisions of the EU Construction Products Directive	43
Bibliog	graphy	51
Figure		
Figure	B.1 — Dimensions of test specimens	32
Figure	C.1 — Flow chart of the alternative ageing procedures	34
Figure	ZA.1 — Example of CE marking information	50
Tables		
Table 1	1 — Dimensional tolerances	12
Table 2	2 — Levels for dimensional stability	13
Table 3	3 — Levels for compressive stress or compressive strength	15
Table 4	4 — Test methods, test specimens and conditions	18
Table A	A.1 — Minimum product testing frequencies	23
Table /	A.2 — Minimum product testing frequencies for the reaction to fire characteristics	25
Table (C.1 — Increments for calculating the aged value of thermal conductivity	36
Table (C.2 — Increments for calculating the aged value of thermal conductivity T_{mean} = - 120 °C	36

Table C.3 — Increments for calculating the aged value of thermal conductivity T _{mean} = + 10 °C	37
Table C.4 — Increments for calculating the aged value of thermal conductivity T_{mean} = + 120 °C	37
Table C.5 — Safety increments to be added to the measured accelerated aged value of th conductivity	
Table D.1 — Test methods, test specimens, conditions and minimum testing frequencies	42
Table ZA.1 — Relevant clauses	44
Table ZA.2 — System(s) of attestation of conformity	45
Table ZA.3 — Assignment of evaluation of conformity tasks for products under system 1	46
Table ZA.4 — Assignment of evaluation of conformity tasks for products under system 3 or sys	

Foreword

This document (EN 14308:2009+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 14308:2009.

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), Determination of minimum service temperature
- Annex C (normative), Determination of the aged value of thermal conductivity
- Annex D (normative), 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 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 package of European 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 expanded polystyrene (EPS) products — 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.