



SLOVENSKI STANDARD
SIST EN 13163:2013+A1:2015/kFprA2:2016
01-maj-2016

Toplotnoizolacijski proizvodi za stavbe - Proizvodi iz ekspaniranega polistirena (EPS) - Specifikacija

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

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

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

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Ta slovenski standard je istoveten z: EN 13163:2012+A1:2015/FprA2

ICS:

91.100.60	Materiali za toplotno in zvočno izolacijo	Thermal and sound insulating materials
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SIST EN
13163:2013+A1:2015/kFprA2:2016

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

FINAL DRAFT
EN 13163:2012+A1:2015
FprA2

March 2016

ICS 91.100.60

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 draft amendment is submitted to CEN members for unique acceptance procedure. It has been drawn up by the Technical Committee CEN/TC 88.

This draft amendment A2, if approved, will modify the European Standard EN 13163:2012+A1:2015. If this draft becomes an amendment, 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.

This draft amendment was established by CEN 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.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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European foreword

This document (EN 13163:2012+A1:2015/FprA2:2016) has been prepared by Technical Committee CEN/TC 88 “Thermal insulating materials and products”, the secretariat of which is held by DIN.

This document is currently submitted to the Unique Acceptance Procedure.

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 Regulation 305/2011.

The main changes to EN 13163:2012+A1:2015 are:

- the adjustment of dimensions;
- the modification of several clauses;
- the addition of a symbol.

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EN 13163:2012+A1:2015/FprA2:2016 (E)**1 Modification to Clause 1, Scope**

In the last paragraph, replace "FprEN 16025-1 and -2" with "EN 16025-1 and -2".

2 Modification to 3.2, Symbols, units and abbreviated terms

Between the table rows dedicated to T and TR, add the following table row:

"
TC is the symbol for the declared class for thickness tolerance of EPS T products

3 Modification to 4.3.4, Compressive stress at 10 % deformation

Replace the whole Table 3 with the following one:

"Table 3 — Levels for compressive stress at 10 % deformation

Level	Requirement kPa
CS(10)30	30
CS(10)50	50
CS(10)60	60
CS(10)70	70
CS(10)80	80
CS(10)90	90
CS(10)100	100
CS(10)150	150
CS(10)200	200
CS(10)250	250

From a minimum of 30 kPa higher values with steps of 10 kPa may be declared.

4 Modification to 4.3.5, Bending strength

Replace Table 4 with the following one:

"Table 4 — Levels for bending strength

Level	Requirement kPa
BS50	50
BS75	75
BS100	100
BS115	115
BS125	125
BS135	135
BS150	150
BS200	200
BS250	250
BS350	350

From a minimum of 50 kPa, higher values with steps of 5 kPa may be declared.

5 Modification to 4.3.7, Deformation under specified compressive load and temperature conditions (standards.iteh.ai)

In the 1st paragraph, replace the last sentence with the following one: "For each test condition the difference between the relative deformation, ϵ_1 , after step A and ϵ_2 after step B as described in EN 1605 shall not exceed the values given in Table 5 for the declared level."

6 Modification to 4.3.15.2, Thickness, d_L

Replace the whole Table 7 with the following one:

Table 7 — Classes for thickness tolerances

Class	Tolerances	
	Minimum	Maximum
TC(1)	-5 % or -1 mm ^a	+15 % or +3 mm ^a
TC(0)	0	+10 % or +2 mm for $d_L < 35$ mm ^a +15 % or +3 mm for $d_L \geq 35$ mm ^a

^a Whichever gives the greatest numerical tolerance.

7 Modification to Clause 6, Designation code

In the EXAMPLE, replace "T2 - L3 - W2 - Sb5" with "T(2) - L(3) - W(2) - Sb(5)".

EN 13163:2012+A1:2015/FprA2:2016 (E)

8 Modification to Annex B (normative), **A1** Product type determination **A1** (**A1** PTD **A1**) and factory production control (FPC)

Replace the whole Table B.2 with the following one:

"Table B.2 — Minimum product testing frequencies for the reaction to fire characteristics

Clause		Minimum testing frequency ^a								
No	Title	Direct testing ^b		Indirect testing ^{c, d}						
	Reaction to fire			Product	Components ^e					
					Substantial		Non-substantial			
4.2.6	class	Test method	Frequency	Test method	Frequency	Test method	Frequency	Test method	Frequency	
	A1 without testing ^h	EN 13820	1 per 3 months ^h or	-	-	-	-	-	-	
			1 per 2 years and indirect testing	-	-	Loss on ignition	1 per 4 h	Weight per unit area	1 per 1 h	
	A1	EN ISO 1182 and EN ISO 1716 (and EN 13823)	1 per 2 years and indirect testing	-	-	Loss on ignition	1 per 4 h	Either loss on ignition or calorific potential	1 per 4 h	
						Apparent density	1 per 1 h	weight per unit area	1 per 1 h	
	A2	EN ISO 1182 or EN ISO 1716 and EN 13823	1 per 2 years and indirect testing	-	-	Loss on ignition	1 per 4 h	Either loss on ignition or calorific potential	1 per 4 h	
						Apparent density	1 per 1 h	Weight per unit area	1 per 1 h	
	B C D	EN 13823 and EN ISO 11925-2 (exposure = 30 s)	1 per month							
			or 1 per 2 years and indirect testing	EN ISO 11925-2 (exposure = 30 s)	1 per week ^f	EN ISO 11925-2 (exposure = 30 s)	1 per week ^g	Manufacturer's method	1 per week	
			1 per week ^f							

Clause		Minimum testing frequency ^a							
No	Title	Direct testing ^b		Indirect testing ^{c, d}					
	Reaction to fire			Product	Components ^e				
					Substantial		Non-substantial		
4.2.6	class	Test method	Frequency	Test method	Frequency	Test method	Frequency	Test method	Frequency
			or 1 per 2 years and indirect testing			EN ISO 11925-2 (exposure = 30 s)	1 per week ^g	Manufacturer's method	1 per week
	E	EN ISO 11925-2 (exposure = 15 s)	1 per week ^{f, g} or 1 per 2 years and indirect testing	-	-	-	-	-	-
	F	-	-	-	-	EN ISO 11925-2 (exposure = 15 s)	1 per week ^g	Manufacturer's method	1 per week

NOTE Not all Euroclasses may apply for the products conforming to this standard.

^a The minimum testing frequencies, expressed in test results, shall be understood as the minimum for a product or a product group for each production unit/line under stable conditions. In addition to the testing frequencies given above, testing of relevant properties of the product shall be repeated when changes or modifications are made that are likely to affect the conformity of the product.

^b Direct testing may be conducted either by third party or by the manufacturer.

^c Indirect testing shall be either on the product or on its components.

^d Indirect testing is only possible in the case of products falling within the system 1 for attestation of conformity of reaction to fire, or by having a notified body verifying the correlation to the direct testing.

^e Definition as given in the Euroclasses Decision, 2000/147/EC:

- Substantial component: A material that constitutes a significant part of a non-homogeneous product. A layer with a mass per unit area $\geq 1,0 \text{ kg/m}^2$ or a thickness $\geq 1,0 \text{ mm}$ is considered to be a substantial component.

- Non-substantial component: A material that does not constitute a significant part of a non-homogeneous product. A layer with a mass per unit area $< 1,0 \text{ kg/m}^2$ and a thickness $< 1,0 \text{ mm}$ is considered to be a non-substantial component.

^f Unfaced products, i.e. uncovered insulating board, as in footnote ^g below.

^g Products from raw materials without verification by a 3rd party of the reaction to fire classification shall be tested at a frequency of once per day.

NOTE See Annex E for verification of raw materials.

^h European Decision 96/603/EC: Materials to be considered as reaction to fire class A provided for in Decision 94/611/EC without the need for testing (of reaction to fire characteristics).