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**Toplotnoizolacijski proizvodi za stavbe - Proizvodi iz polietilenske pene (PEF) -  
Specifikacija**

Thermal insulation products for buildings - Factory made products of polyethylene foam (PEF) - Specification

Wärmedämmstoffe für Gebäude - Werkmäßig hergestellte Produkte aus Polyethylenschaum (PEF) - Spezifikation

Produits isolants thermiques pour le bâtiment - Produits manufacturés en mousse de polyéthylène (PEF) - Spécification

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**Ta slovenski standard je istoveten z: EN 16069:2012+A1:2015/prA2**

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**ICS:**

91.100.60	Materiali za toplotno in zvočno izolacijo	Thermal and sound insulating materials
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**SIST EN**  
**16069:2013+A1:2015/oprA2:2018**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**DRAFT**  
**EN 16069:2012+A1:2015**  
**prA2**

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ICS 91.100.60

English Version

## Thermal insulation products for buildings - Factory made products of polyethylene foam (PEF) - Specification

Produits isolants thermiques pour le bâtiment -  
Produits manufacturés en mousse de polyéthylène  
(PEF) - Spécification

Wärmedämmstoffe für Gebäude - Werkmäßig  
hergestellte Produkte aus Polyethylenschaum (PEF) -  
Spezifikation

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

This draft amendment A2, if approved, will modify the European Standard EN 16069:2012+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

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<b>Contents</b>	<b>Page</b>
European foreword.....	3
1 Modification to the European foreword .....	4
2 Modifications to the Scope .....	5
3 Modification to Clause 2, Normative references.....	5
4 Modification to 3.1, Terms and definitions.....	5
5 Modification to 3.2.2, Abbreviated terms used in this European Standard.....	5
6 Modification to Clause 4, Requirements.....	5
7 Modification to 4.1, General .....	5
8 Modification to 4.3.13, Release of dangerous substances.....	5
9 Modification to 4.3.15, Continuous glowing combustion .....	5
10 Modification to 5.3.2, Thermal resistance and thermal conductivity.....	6
11 Modification to Clause 6, Designation Code.....	7
12 Modification to Clause 7, Assessment and Verification of the Constancy of Performance (AVCP) .....	7
13 Modification to Annex B, Product type determination (PTD) and factory production control (FPC).....	8
14 Modification to C.2, Requirements.....	12
15 Modification to E.10, Peel strength.....	12
16 Modification to Annex ZA, Clauses of this European Standard addressing the provisions of the EU Construction Products Regulation.....	12

## European foreword

This document (EN 16069:2012+A1:2015/prA2:2018) 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 CEN Enquiry.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

For relationship with EU Regulations, see informative Annex ZA which is an integral part of this document.

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## EN 16069:2012+A1:2015/prA2:2018 (E)

**1 Modification to the European foreword**

*In the seventh paragraph, delete "*, and supports essential requirements of EU Directive(s).".

*Replace the ninth and tenth paragraphs with the following:*

"Amendment A2 modifies EN 16069:2012 and its A1 amendment. This amendment introduces or corrects:

- a) Modified the clause "Release of Dangerous substance";
- b) Modified the definition for "class F" in the clause "reaction to fire";
- c) Editorial modifications in different parts of the text and linked to the above modification;
- d) Modifications to be in line with the CPR, e.g. PTD replaced by TT ;
- e) Modified the Annex ZA."

*After the eleventh paragraph, add the following paragraphs:*

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

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*

EN 16069, *Thermal insulation products for buildings — Factory made products of polyethylene foam (PEF) — Specification*".

## 2 Modifications to the Scope

*In the first paragraph, replace the word "requirements" with "characteristics".*

*In the second paragraph, replace the term "evaluation of conformity" with "assessment and verification of constancy of performance (AVCP)".*

## 3 Modification to Clause 2, Normative references

*Add the following reference:*

"EN 16516, Construction products — Assessment of release of dangerous substances — Determination of emissions into indoor air"

## 4 Modification to 3.1, Terms and definitions

*Delete the terms "3.1.2 level" and "3.1.3 class" and renumber the remaining terms accordingly.*

## 5 Modification to 3.2.2, Abbreviated terms used in this European Standard

*Add the following abbreviated terms:*

"

TT is **Type testing** (previously named ITT for Initial Type Test)

CWFT is Classification without further testing

".

*Delete the abbreviated terms "PTD" and "VCP".*

<https://standards.iteh.ai/catalog/standards/sist/96c03692-fec3-42ac-91f2-88f136410c10/en-16069-2012-a1-2015-opra2-2018>

## 6 Modification to Clause 4, Requirements

*In the title of the clause, replace the term "Requirements" with "Characteristics".*

## 7 Modification to 4.1, General

*Throughout the subclause, replace the term "requirements" with "characteristics".*

## 8 Modification to 4.3.13, Release of dangerous substances

*Replace the text in the clause with the following:*

"If the release of dangerous substances<sup>1)</sup> into indoor air is tested, this shall be done according to EN 16516.

NOTE An informative database covering European and national provisions on dangerous substances is available at the Construction web site on EUROPA accessed through: <http://ec.europa.eu/growth/tools-databases/cp-ds>".

## 9 Modification to 4.3.15, Continuous glowing combustion

*Delete the clause.*

1) See for reference the LCI list of the European Commission "Agreed EU-LCI values" ([http://ec.europa.eu/growth/sectors/construction/eu-lci/values\\_en](http://ec.europa.eu/growth/sectors/construction/eu-lci/values_en)).

## EN 16069:2012+A1:2015/prA2:2018 (E)

## 10 Modification to 5.3.2, Thermal resistance and thermal conductivity

Replace Table 6 with the following:

"Table 6 — Test methods, test specimens and conditions

Dimensions in millimetres

Clause		Test method	Test specimen Length and width <sup>a</sup>	Minimum number of measurements to get one test result	Specific conditions
No.	Title				
4.2.1	Thermal resistance and thermal conductivity	EN 12667 or EN 12939	See EN 12667 or EN 12939	1	See <sup>b</sup>
4.2.2	Length, width	EN 822	Full size	1	—
4.2.3	Thickness	EN 823	Full size	1	100 Pa
4.2.4	Squareness	EN 824	Full size	1	—
4.2.5	Flatness	EN 825	Full size	1	—
4.2.6	Reaction to fire of the product as placed on the market	See EN 13501-1 and EN 15715			See Clause 5 of EN 15715:2009
4.3.2	Dimensional stability	EN 1603	Full-size	3	—
		EN 1604	200 × 200 or Full size	3	—
4.3.3.	Compressive stress Compressive strength	EN 826	100 × 100	3	—
4.3.4	Tensile strength and elongation in length and width direction	EN ISO 1798	As defined in type 1 of EN ISO 1798	5	—
4.3.5	Point load	EN 12430	300 × 300	3	—
4.3.6	Compressive creep	EN 1606	100 × 100	3	—
4.3.7.	Long term water absorption by immersion	EN 12087	200 × 200	3	Total: method 2 B Partial: method 1A
4.3.8.	Water vapour transmission	EN 12086	See 6.1 in EN 12086:1997	3	Set A
4.3.9	Dynamic stiffness	EN 29052-1	200 × 200	3	—
4.3.10.2	Thickness, $d_L$	EN 12431	200 × 200	3	120 s
4.3.10.3	Thickness, $d_B$	EN 12431			
4.3.10.5	Long term thickness reduction	EN 1606			Level CP2
4.3.11	Sound absorption	EN ISO 354	Minimum 10 m <sup>2</sup>	1	To be reported
4.3.12	Width, length of preformed products	EN 822	Full size	1	—
	Thickness of preformed products	EN 823	Full size	1	Load of 100 Pa



Clause		Test method	Test specimen Length and width <sup>a</sup>	Minimum number of measurements to get one test result	Specific conditions
No.	Title				
4.3.13	Release of dangerous substances	EN 16516	See EN 16516	See EN 16516	See EN 16516
4.3.14	Reaction to fire of the product in standardized assemblies simulating end-use applications	See EN 13501-1 and EN 15715			See Clause 6 of EN 15715:2009

a Full-size product thickness except for 4.3.14 and except when the limits of the test methods are exceeded.

b The level of remaining hydrocarbon gas should be determined with a gas chromatograph following approved laboratory methods. Literature reference – S. Lohmeyer, G. Müller: "Determination of the cell gas amount and composition in polyurethane foams"; Journal for cooling technic and air conditioning (Kältetechnik Klimatisierung), 22nd year, volume 3, (1970), pp 291–295.

## 11 Modification to Clause 6, Designation Code

Replace the first sentence by the following:

"If a designation code is provided, the following shall be included except when there is no requirement for a property described in 4.3:": (standards.iteh.ai)

## 12 Modification to Clause 7, Assessment and Verification of the Constancy of Performance (AVCP)

Replace the subclauses with the following:

### "7.1 General

The manufacturer or his authorized representative shall be responsible for the conformity of his product with the requirements of this European Standard. The Assessment and Verification of Constancy of Performance (AVCP) shall be carried out in accordance with EN 13172 and shall be based on Type testing (TT), Factory Production Control (FPC) by the manufacturer, including product assessment and tests on samples taken at the factory.

The compliance of the product with the requirements of this standard and with the stated values (including classes) shall be demonstrated by:

- Type testing (TT),
- Factory Production Control (FPC) by the manufacturer, including product assessment.

If a manufacturer decides to group his products, it shall be done in accordance with EN 13172.

### 7.2 Type testing (TT)

All characteristics defined in 4.2 and those in 4.3 if declared, shall be subject to Type testing (TT) in accordance with Annex B.

For the relevant characteristics, TT on products corresponding also to EN 14313 may be used for the purpose of TT and Declaration of Performance (DoP) according to this standard.