
**Toplotnoizolacijski proizvodi za opremo stavb in industrijske inštalacije -
Proizvodi iz penjenega stekla (CG) - Specifikacija**

Thermal insulation products for building equipment and industrial installations - Factory made cellular glass (CG) products - Specification

Wärmedämmstoffe für die technische Gebäudeausrüstung und für betriebstechnische Anlagen in der Industrie - Werkmäßig hergestellte Produkte aus Schaumglas (CG) - Spezifikation

Produits isolants thermiques pour l'équipement du bâtiment et les installations industrielles - Produits manufacturés en verre cellulaire (CG) - Spécification

Ta slovenski standard je istoveten z: EN 14305:2015/prA1

ICS:

91.100.60	Materiali za toplotno in zvočno izolacijo	Thermal and sound insulating materials
-----------	---	--

SIST EN 14305:2016/oprA1:2019 **en,fr,de**

ITeh STANDARD PREVIEW
(standards.iteh.ai)

Full standard:
<https://standards.iteh.ai/catalog/standard/sist/556791cc-4daa-462d-b640-58f03e18e9c/sist-en-14305-2016-oprA1-2019>

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

DRAFT
EN 14305:2015
prA1

November 2018

ICS 91.100.60

English Version

Thermal insulation products for building equipment and industrial installations - Factory made cellular glass (CG) products - Specification

Produits isolants thermiques pour l'équipement du bâtiment et les installations industrielles - Produits manufacturés en verre cellulaire (CG) - Spécification

Wärmedämmstoffe für die technische Gebäudeausrüstung und für betriebstechnische Anlagen in der Industrie - Werkmäßig hergestellte Produkte aus Schaumglas (CG) - 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 A1, if approved, will modify the European Standard EN 14305:2015. 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.

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, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.

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.

Warning : This document is not a European Standard. It is distributed for review and comments. It is subject to change without notice and shall not be referred to as a European Standard.



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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents

	Page
European foreword.....	3
1 Modification to the European foreword	4
2 Modifications to the Scope	4
3 Modification to Clause 2, "Normative references"	4
4 Modifications to 3.1.2, "Additional terms and definitions"	4
5 Modifications to 3.2.2, "Abbreviated terms used in this standard"	4
6 Modification to Clause 4, "Requirements"	4
7 Modification to 4.1, "General"	4
8 Modification to 4.2.1, "Thermal conductivity"	4
9 Modifications to 4.2.4, "Reaction to fire of the product as placed on the market"	5
10 Modification to 4.3.1, "General"	5
11 Modifications to 4.3.4, "Compressive strength"	5
12 Modification to 4.3.14, "Release of dangerous substances"	5
13 Modification to 4.3.15, "Continuous glowing combustion"	6
14 Modifications to 5.3.1, "General"	6
15 Modification to 5.3.2, "Thermal conductivity"	6
16 Modification to Clause 6, "Designation code"	6
17 Modifications to Clause 7, "Assessment and verification of constancy of performance — AVCP"	6
18 Modification to Clause 8, "Marking and labelling"	7
19 Modifications to Annex A, "Factory production control"	7
20 Modification to Annex C, "Additional properties"	10
21 Modification to Annex ZA	10

European foreword

This document (EN 14305:2015/prA1:2018) 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 amendment modifies EN 14305:2015 identifying those clauses of the standard which are needed for the compliance of this European Standard with the Construction Products Regulation (CPR).

This amendment introduces:

- a) an update for the normative references;
- b) an update for 4.3.14 Release of dangerous substances by referencing EN 16516 and corresponding adaptations in the document;
- c) the deletion of 4.3.15 Continuous glowing combustion;
- d) the reaction to fire class "F" in Annex A;
- e) the new Annex ZA;
- f) editorial changes.

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

For relationship with Regulation (EU) No. 305/2011, see informative Annex ZA, which is an integral part of this document.

EN 14305:2015/prA1:2018 (E)**1 Modification to the European foreword**

Delete "and supports essential requirements of Regulation (EU) No. 305/2011" from the 7th paragraph.

The European foreword will be updated using the latest template texts and listing the modifications as described in the foreword of this document.

2 Modifications to the Scope

Replace "requirements" with "characteristics" in the 1st paragraph.

Replace "evaluation of conformity" with "assessment and verification of constancy of performance (AVCP)" in the 4th paragraph".

Replace "declared" with "measured" in the 7th paragraph.

Replace "European Standard" with "document" in the whole Scope.

3 Modification to Clause 2, "Normative references"

Add:

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

4 Modifications to 3.1.2, "Additional terms and definitions"

Delete term 3.1.2.1 "level".

Delete term 3.1.2.2 "class".

Renumber the other terms accordingly.

5 Modifications to 3.2.2, "Abbreviated terms used in this standard"

Delete the abbreviations "PTD" and "VCP" and their explanations.

Add:

"

CWFT is Classification without further testing

"

6 Modification to Clause 4, "Requirements"

Replace the title of Clause 4 with the following: "Characteristics".

7 Modification to 4.1, "General"

Delete the second sentence from the first paragraph.

8 Modification to 4.2.1, "Thermal conductivity"

Delete "by the manufacturer" from the 2nd paragraph (two times).

9 Modifications to 4.2.4, "Reaction to fire of the product as placed on the market"

Replace the last paragraph with the following:

"Reaction to fire class A1 without further test is declared when it is demonstrated by testing in accordance with EN 13820 that the products do not contain more than 1,0 % by weight or volume (whichever is the more onerous) of organic matter."

Replace NOTE 2 with the following:

"NOTE 2 The European Commission Decision 96/603/EC amended by Decision 2000/605/EC and 2003/424/EC gives the conditions for classification A1 without the need for testing."

10 Modification to 4.3.1, "General"

Delete "by the manufacturer".

11 Modifications to 4.3.4, "Compressive strength"

Please replace the first sentence with the following:

"Compressive strength, σ_m , shall be determined in accordance with EN 826."

Add the following NOTES and paragraph at the end of the clause:

"

NOTE 1 The estimated standard deviation of compressive strength can be needed. In this event, it will be calculated from at least five test results.

For cellular glass, EN 826:2013 compressive behaviour test method Annex A shall be respected in which test specimens shall be capped with hot bitumen to cover the open cut cells. In absence of hot bitumen, an alternative capping shall be foreseen having the same smoothness and cell filling capacity as hot bitumen, e.g. soft butyl or other elastomeric thin foils or membranes.

NOTE 2 EN 826 compressive behaviour test method calls for a capping made of bitumen and a well-defined foil; the results can be used directly where cellular glass is installed with hot bitumen or bitumen based cold adhesive. For some applications, different cappings or no cappings are used, for instance when the operating temperature does not allow for bitumen application. In these cases, compressive strength will be different and tests will be run simulating the actual application conditions."

12 Modification to 4.3.14, "Release of dangerous substances"

Replace the paragraphs and the note with the following:

"If declared, the release of dangerous substances¹⁾ into indoor air shall be tested according to EN 16516.

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

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)

EN 14305:2015/prA1:2018 (E)

13 Modification to 4.3.15, "Continuous glowing combustion"

Delete subclause 4.3.15.

14 Modifications to 5.3.1, "General"

In Table 6 "Test methods, test specimens and conditions" replace the lines "4.3.14 (release of dangerous substances)" with the following:

"

Clause		Test method		Test specimen dimensions ^a	Minimum number of measurements to get one test result	Specific conditions
No.	Title	Flat	Cylindrical			
4.3.14	Release of dangerous substances	EN 16516	EN 16516	see EN 16516	see EN 16516	see EN 16516

".

In Table 6, delete the line "4.3.15 (Continuous glowing combustion)".

In Table 6, delete footnote 'b'.

15 Modification to 5.3.2, "Thermal conductivity"

Replace 'PTD' with 'type testing' in the fourth paragraph.

16 Modification to Clause 6, "Designation code"

Replace the first paragraph with the following:

"If a designation code is provided it shall be given as follows:"

17 Modifications to Clause 7, "Assessment and verification of constancy of performance — AVCP"

Replace subclauses 7.1 and 7.2 with the following clauses:

"

7.1 General

In accordance with EN 13172, the compliance of the factory made cellular glass (CG) products with the requirements of this standard and with the performances declared by the manufacturer in the DoP shall be demonstrated by:

- Determination of the product type (Type testing);
- Factory Production Control (FPC) by the manufacturer, including product assessment;
- Initial inspection of manufacturing plant and of Factory Production Control (FPC);
- Continuing surveillance, assessment and evaluation of Factory Production Control (FPC).

The manufacturer shall always retain the overall control and shall have the necessary means to take responsibility for the conformity of the product with its declared performance(s).

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

7.2 Type testing

All performances related to characteristics included in this standard shall be determined when the manufacturer intends to declare the respective performances unless the standard gives provisions for declaring them without performing tests. (e.g. use of previously existing data, CWFT and conventionally accepted performance).

Type testing for the thermal conductivity curve shall be carried out in accordance with EN ISO 13787.

For Type testing only one test result is required for the thermal conductivity curve and the maximum and minimum service temperature.

For the relevant characteristics, type testing on products corresponding also to EN 13167 may be used for the purpose of type testing and Declaration of Performance (DoP) according to this standard."

Add the following paragraph as first paragraph to subclause 7.3, Factory Production Control (FPC).

"The manufacturer shall establish, document and maintain an FPC system to ensure that the products placed on the market comply with the declared performance of the essential characteristics."

Add the following subclauses:

"

7.4 Initial inspection of factory and of FPC

The initial inspection of the factory and of FPC shall be done in accordance with EN 13172.

7.5 Continuous surveillance of FPC

The continuous surveillance of FPC shall be done in accordance with EN 13172."

18 Modification to Clause 8, "Marking and labelling"

Delete the NOTE.

19 Modifications to Annex A, "Factory production control"

In Table A.1 "Minimum product testing frequencies" replace line "4.3.14 (release of dangerous substances)" with the following:

"

Clause		Minimum testing frequency ^a
No.	Title	
4.3.14	Release of dangerous substances	1 per 5 years and indirect testing with manufacturer's method 1 per week

In Table A.1, delete line "4.3.15 (Continuous glowing combustion)".

In Table A.1, replace 'PTD' with 'type testing' in the footnote 'a' and NOTE.

In Table A.1, delete footnote 'c'.

Replace Table A.2 "Minimum product testing frequencies for the reaction to fire characteristics" with the following: