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**Toplotnoizolacijski proizvodi za opremo stavb in industrijske inštalacije -  
Proizvodi iz mineralne volne (MW) - Specifikacija**

Thermal insulation products for building equipment and industrial installations - Factory made mineral wool (MW) products - Specification

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

Produits isolants thermiques pour l'équipement du bâtiment et les installations industrielles - Produits manufacturés à base de laines minérales (MW) - Spécification

**Ta slovenski standard je istoveten z: EN 14303:2015/prA1**

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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 14303:2016/oprA1:2019****en,fr,de**

**iTeh STANDARD PREVIEW**  
(standards.iteh.ai)

Full standard:  
<https://standards.iteh.ai/catalog/standards/sist/07cedbb6-498e-4a55-9816-caa7dd7528a/sist-en-14303-2016-oprA1-2019>

EUROPEAN STANDARD  
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**prA1**

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ICS 91.100.60

English Version

## Thermal insulation products for building equipment and industrial installations - Factory made mineral wool (MW) products - Specification

Produits isolants thermiques pour l'équipement du bâtiment et les installations industrielles - Produits manufacturés à base de laines minérales (MW) - Spécification

Wärmedämmstoffe für die technische Gebäudeausrüstung und für betriebstechnische Anlagen in der Industrie - Werkmäßig hergestellte Produkte aus Mineralwolle (MW) - 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 14303:2015. 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.

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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: Rue de la Science 23, B-1040 Brussels**

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## European foreword

This document (EN 14303:2015/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 14303:2015 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 4.3.9 Release of dangerous substances by referencing EN 16516 and corresponding adaptations in the document;
- c) the adaption of 4.3.10 in order to reference EN 16733 for the continuous smouldering 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 14303:2015/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 1<sup>st</sup> 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 Modifications to Clause 2, "Normative references"**

Replace the reference to EN 12086 with the reference to:

"EN ISO 12572, Hygrothermal performance of building materials and products – Determination of water vapour transmission properties – Cup method (ISO 12572:2016)".

Add the following references:

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

EN 16733:2016, Reaction to fire tests for building products – Determination of a building product's propensity to undergo continuous smouldering".

**4 Modifications to 3.1.2, "Additional terms and definitions"**

Delete term 3.1.2.3 "level".

Delete term 3.1.2.4 "class".

Renumber the other terms accordingly.

**5 Modification to 3.2.1, "Symbols and units used in this standard"**

Add the following:

"

S – NoS is the symbol of the declared continuous smouldering performance (NoS means no Smouldering and S means Smouldering)

ANP is the symbol of the declared continuous smouldering performance when the assessment is not possible

".

**6 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

"

## **7 Modification to Clause 4, "Requirements"**

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

## **8 Modification to 4.1, "General"**

*Delete the second sentence from the first paragraph.*

## **9 Modification to 4.2.1, "Thermal conductivity"**

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

## **10 Modification 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.

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."

## **11 Modification to 4.3.1, "General"**

*Delete "by the manufacturer".*

## **12 Modification to 4.3.8, "Water vapour transmission"**

*Replace the reference to "EN 12086" with a reference to "EN ISO 12572".*

## **13 Modification to 4.3.9, "Release of dangerous substances"**

*Replace the paragraphs and the NOTE with the following:*

"If declared, the release of dangerous substances<sup>1)</sup> 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/>."

## **14 Modifications to 4.3.10, "Continuous glowing combustion"**

*Replace the title of 4.3.10 with the following: "Propensity to undergo continuous smouldering".*

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<sup>1)</sup> 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 14303:2015/prA1:2018 (E)**

*Replace the paragraphs and the NOTE with the following:*

"When declared, the propensity to undergo continuous smouldering of factory made mineral wool (MW) products shall be tested according to EN 16733.

The following conditions and parameters shall be considered within the tests:

- the type of binder and additives;
- organic content (in percentage per mass), to be determined by tests according to EN 13820;
- absolute organic content expressed in  $[\text{kg}/\text{m}^3]$ ;
- density according to EN 1602 for flat products, according to EN 13470 for preformed pipe insulation;
- thickness to be determined by test according to EN 823 for flat products or to EN 13467 for preformed pipe insulation;
- fibre orientation.

Pipe sections shall be tested in a vertical direction, separately from flat products.

The test is intended for naked core products. Any facings or coatings are removed when preparing the test specimen.

The tests shall be done without consideration of the intended end-use conditions. If EN 16733:2016, 6.2.5 applies, a permanent contact between the pieces shall be assured.

If there are pipe sections with an outer diameter of more than 100 mm, cut sections shall be used for preparing the test specimen, taken into account the listed parameters.

The results of tests considering the aforementioned parameters in fully are also valid for products:

- of same binder type and additives;
- having tested absolute organic content in  $[\text{kg}/\text{m}^3]$  identical or lower, when the organic content in [%] is the same or lower as tested
- with equal or lower density up to a tested density of  $115 \text{ kg}/\text{m}^3$ ;
- if tested density is higher than  $115 \text{ kg}/\text{m}^3$ , can be applicable to lower density if additionally tested with a density of  $100 \text{ kg}/\text{m}^3 (\pm 15 \%)$ ;
- with lower thickness and also with higher thickness when 100 mm thick specimens were tested;
- with all fibre orientations, if all relevant orientations had been tested;
- with any facings or coatings or suchlike;
- for any end-use conditions.

If the test according to EN 16733:2016, Clause 11 has been passed, declare: "the product does not show propensity for continuous smouldering combustion". If the test according to Clause 11 of EN 16733:2016 has been failed, declare: "the product shows propensity for continuous smouldering



combustion". If the assessment was not possible according to EN 16733:2016, Clause 11, declare: "assessment of the propensity for continuous smouldering combustion is not possible".

If a Designation code is given, the following abbreviations shall be used:

- the product does not show propensity for continuous smouldering combustion: NoS;
- the product shows propensity for continuous smouldering combustion: S;
- the assessment of the propensity for continuous smouldering combustion is not possible: ANP."

## 15 Modification to 5.3, "Testing"

In Table 5 "Test methods, test specimens and conditions" replace the lines "4.3.9 (release of dangerous substances)" and "4.3.10 (Continuous glowing combustion)" with the following:

"

Clause		Test method		Test specimen dimensions <sup>a</sup>	Minimum number of measurements to get one test result	Specific conditions
No.	Title	Flat	Cylindrical			
4.3.9	Release of dangerous substances	EN 16516	EN 16516	see EN 16516	see EN 16516	see EN 16516
4.3.10	Propensity to undergo continuous smouldering	EN 16733	EN 16733	see EN 16733	see EN16733	see EN 16733

".

Delete footnote "c" from Table 5.

## 16 Modification to 5.3.2, "Thermal conductivity"

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

## 17 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:"

Add at the end of the enumeration:

"

- Continuous Smouldering S NoS ANP

"

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

Replace subclauses 7.1 and 7.2 with the following: