



**SLOVENSKI STANDARD**  
**SIST EN 12467:2013+A1:2016/oprA2:2017**  
**01-april-2017**

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**Vlaknato-cementne ravne plošče - Specifikacija za izdelek in preskusne metode**

Fibre-cement flat sheets - Product specification and test methods

Faserzement-Tafeln - Produktspezifikation und Prüfverfahren

Plaques planes en fibres-ciment - Spécifications du produit et méthodes d'essai

**Ta slovenski standard je istoveten z: EN 12467:2012+A1:2016/prA2**

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**ICS:**

91.100.40	Cementni izdelki, ojačani z vlakni	Products in fibre-reinforced cement
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<b>SIST EN</b> <b>12467:2013+A1:2016/oprA2:2017</b>	<b>en,fr,de</b>
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EUROPEAN STANDARD  
NORME EUROPÉENNE  
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**DRAFT**  
**EN 12467:2012+A1:2016**  
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February 2017

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ICS 91.100.40

English Version

## Fibre-cement flat sheets - Product specification and test methods

Plaques planes en fibres-ciment - Spécifications du produit et méthodes d'essai

Faserzement-Tafeln - Produktspezifikation und Prüfverfahren

This draft amendment is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 128.

This draft amendment A2, if approved, will modify the European Standard EN 12467:2012+A1:2016. 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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EN 12467:2012+A1:2016/prA2:2017 (E)

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## European foreword

This document (EN 12467:2012+A1:2016/prA1:2017) has been prepared by Technical Committee CEN/TC 128 “Roof covering products for discontinuous laying and products for wall cladding”, the secretariat of which is held by NBN.

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, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

EN 12467:2012+A1:2016/prA2:2017 (E)

## **1 Modification to the whole document**

*Replace in the whole document the terms “production method”, “method of manufacture” and “production process” by “manufacturing process”.*

## **2 Modification to Clause 5.1.1, *Composition***

*Replace the last sentence of the first paragraph with the following sentence:*

"The cement shall comply with EN 197-1 or an agreed technical specification relevant in the country of use provided the cement compound composition is in accordance with EN 197-1."

## **3 Modification to Clause 6.2.1, *General***

*Add as 3rd paragraph of 6.2.1 the following text:*

"Testing of mechanical characteristics is normally carried out with the upper face in compression. If required to establish a relationship between upper and under face testing where significant differences are expected or if required for design purposes, the load shall be applied on the under face. Results obtained for under face testing are not relevant for classification."

## **4 Modification to Clause 6.3.5, *Continuous surveillance of FPC***

*Add the following sentence to the 1st paragraph:*

"The significance of any changes shall be assessed."

## **5 Modification to Annex ZA (informative), *Relationship of this European Standard with Regulation (EU) No.305/2011***

*Replace Annex ZA (including change in title) with the following:*

"

## Annex ZA (informative)

### Relationship of this European Standard with Regulation [EU] No.305/2011

(When applying this standard as a harmonized standard under Regulation [EU] No. 305/2011, manufacturers and Member States are obliged by this regulation to use this Annex)

#### ZA.1 Scope and relevant characteristics

This European Standard has been prepared under standardization request M/121 “Internal and external wall and ceiling finishes” given to CEN and CENELEC by the European Commission (EC) and the European Free Trade Association (EFTA).

When this European Standard is cited in the Official Journal of the European Union (OJEU), under Regulation (EU) No 305/2011, it shall be possible to use it as a basis for the establishment of the Declaration of Performance (DoP) and the CE marking, from the date of the beginning of the co-existence period as specified in the OJEU.

Regulation (EU) No 305/2011, as amended, contains provisions for the DoP and the CE marking.

**Table ZA.1.1 — Relevant clauses for fibre-cement flat sheets for internal wall and ceiling finishes**

<b>Product:</b> Fibre cement flat sheets			
<b>Intended use:</b> Internal wall and ceiling finishes			
Essential Characteristics	Clauses of this and other European Standard(s) related to essential characteristics	Classes and/or threshold levels	Notes
Mechanical resistance <sup>a</sup>	5.4.4	-	Minimum MOR Classes 1 to 5
Reaction to fire	5.6.1	A1 to F	Declared class
Release of dangerous substances	5.6.2	-	See 5.6.2
Durability against warm water	5.5.4	-	$R_L \geq 0,75$
Durability against soak / dry	5.5.5	-	$R_L \geq 0,75$
<sup>a</sup> Characteristic which does not apply to wall finishes.			

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**Table ZA.1.2 — Relevant clauses for fibre-cement flat sheets for external wall, roof covering and ceiling finishes**

<b>Product:</b> Fibre cement flat sheets			
<b>Intended use:</b> External wall, roof covering and ceiling finishes			
<b>Essential Characteristics</b>	<b>Clauses of this and other European Standard(s) related to essential characteristics</b>	<b>Classes and/or threshold levels</b>	<b>Notes</b>
Mechanical resistance	5.4.4	-	Minimum MOR Classes 1 to 5
Reaction to fire	5.6.1	A1 to F	Declared class
Release of dangerous substance	5.6.2	-	See 5.6.2
Water impermeability	5.4.5	-	No water drops
Durability against warm water	5.5.4	-	$R_L \geq 0,75$
Durability against soak / dry	5.5.5	-	$R_L \geq 0,75$
Durability against freeze-thaw	5.5.2	-	$R_L \geq 0,75$
Durability against heat-rain	5.5.3	-	Pass – see 5.5.3

## **ZA.2 System of Assessment and Verification of Constancy of Performance [AVCP]**

The AVCP systems of fibre-cement flat sheets, indicated in Tables ZA.1.1 and ZA.1.2, can be found in the EC legal acts adopted by the EC: 98/437/EC of 1998-06-30 (OJEU L194 of 1998-07-10), as corrected (OJEU L278 of 1998-10-15) and amended by 2001/596/EC of 2001-01-08 (OJEU L209 of 2001-08-02).

Micro-enterprises are allowed to treat products under AVCP system 3 covered by this standard in accordance with AVCP system 4, applying this simplified procedure with its conditions, as foreseen in Article 37 of Regulation [EU] No.305/2011.

## **ZA.3 Assignment of AVCP tasks**

The AVCP systems of fibre-cement flat sheets as provided in Tables ZA.1.1 to ZA.1.2 are defined in Tables ZA.3.1 to ZA.3, resulting from application of the clauses of this or other European Standards indicated therein. The content of the tasks assigned to the notified body shall be limited to those essential characteristics, if any, as provided for in Annex III of the relevant standardisation request and to those that the manufacturer intends to declare.

Taking into account the AVCP systems defined for the products and intended uses the following tasks are to be undertaken by the manufacturer and the notified body respectively for the assessment and verification of the constancy of performance of the product.



**Table ZA.3.1 — Assignment of AVCP tasks for fibre cement flat sheets (for reaction to fire classes A1\*, A2\*, B\* and C\*) under system 1**

Tasks		Content of the task	AVCP clauses to apply
Tasks for the manufacturer	Factory production control (FPC)	Parameters related to essential characteristics of Table ZA.1.1 and/or ZA.1.2 relevant for the intended use which are declared	6.3
	Further testing of samples taken at the manufacturing plant by the manufacturer in accordance with the prescribed test plan	Essential characteristics of Table ZA.1.1 and/or ZA.1.2 relevant for the intended use which are declared	6.3
Tasks for the notified product certification body	An assessment of the performance of the construction product carried out on the basis of testing (including sampling), calculation, tabulated values or descriptive documentation of the product	Reaction to fire	6.2
	Initial inspection of manufacturing plant and of FPC	Parameters related to essential characteristics of Table ZA.1.1 and/or ZA.1.2, relevant for the intended use which are declared, namely Reaction to fire. Documentation of the FPC.	6.3 and 6.3.4
	Continuing surveillance, assessment and evaluation of FPC	Parameters related to essential characteristics of Table ZA.1.1 and/or ZA.1.2, relevant for the intended use which are declared, namely reaction to fire. Documentation of FPC	6.3 and 6.3.5
* Products/materials for which a clearly identifiable stage in the production process results in an improvement of the reaction to fire classification (e.g. an addition of fire retardants or a limiting of organic material).			