



**SLOVENSKI STANDARD**  
**SIST EN 771-5:2011/kFprA1:2014**  
**01-oktober-2014**

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**Specifikacija za zidake - 5. del: Zidaki iz umetnega kamna**

Specification for masonry units - Part 5: Manufactured stone masonry units

Festlegungen für Mauersteine - Teil 5: Betonwerksteine

Spécifications pour éléments de maçonnerie - Partie 5: Eléments de maçonnerie en pierre reconstituée

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**Ta slovenski standard je istoveten z: EN 771-5:2011/FprA1**

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**ICS:**

91.100.15      Mineralni materiali in izdelki      Mineral materials and products

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## Specification for masonry units - Part 5: Manufactured stone masonry units

Spécifications pour éléments de maçonnerie - Partie 5:  
Éléments de maçonnerie en pierre reconstituée

Festlegungen für Mauersteine - Teil 5: Betonwerksteine

This draft amendment is submitted to CEN members for unique acceptance procedure. It has been drawn up by the Technical Committee CEN/TC 125.

This draft amendment A1, if approved, will modify the European Standard EN 771-5:2011. 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.

**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: Avenue Marnix 17, B-1000 Brussels

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## Foreword

This document (EN 771-5:2011/FprA1:2014) has been prepared by Technical Committee CEN/TC 125 "Masonry", the secretariat of which is held by BSI.

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 Directive(s).

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

**NOTE** Due to fact that the Framework Partnership Agreement between the Commission and CEN & CENELEC is not signed yet, there are currently no New Approach Consultants in place for 2014. Therefore the provisions of CEN-CENELEC Guide 15 cannot be met.

This shall not prevent the processing of draft standards nor the offering of harmonized standards to the Commission. In particular, draft standards can be sent to vote without Consultant assessment.

This note will be removed from the Foreword of the finalized publication.

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**EN 771-5:2011/FprA1:2014 (E)****1 Modification to the Foreword**

*Replace the 5<sup>th</sup> and the 6<sup>th</sup> paragraphs with the following:*

“This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association and supports basic requirements for construction works of the EU Construction Products Regulation (Regulation (EU) No 305/2011).

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

**2 Modification to the Scope**

*In the 3<sup>rd</sup> paragraph, replace “evaluation of conformity” with “assessment and verification of constancy of performance (AVCP)”.*

**3 Modification to 5.1, General**

*In the 3<sup>rd</sup> paragraph, replace “initial type testing” with “product type determination”.*

**4 Modification to 5.5.1, Declared value**

*In 2<sup>nd</sup> paragraph, delete “shall be declared”*

**5 Addition of a new subclause 5.14**

*Add a new clause*

**“5.14 Dangerous substances**

National regulations on dangerous substances may require verification and declaration on release, and sometimes content, when construction products covered by this standard are placed on those markets.

In the absence of European harmonized test methods, verification and declaration of release/content should be done taking into account national provisions in the place of use.

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/enterprise/construction/cpd-ds/>.”.

**6 Modification to Clause 8, Evaluation of conformity**

*Replace the title with the following:*

“Assessment and verification of constancy of performance (AVCP)”.

**7 Modifications to 8.1, General**

*In the 1<sup>st</sup> paragraph, replace the word “values” with “performance”.*

*In the list, replace “initial type testing of the product” with “product type determination”.*

*In the 2<sup>nd</sup> paragraph, replace “initial type tests” with “product type determination tests”.*

## **8 Modifications to 8.2, Initial type testing**

*Replace the title with the following:*

“Product type determination”.

*Replace the 1<sup>st</sup> and 2<sup>nd</sup> paragraphs with:*

“After completion of the development of a new product type and before placing on the market, appropriate product type determination shall be carried out to confirm that the properties predicted from the development meet the requirements of this standard and the performance of the characteristics to be declared for the product.

Whenever a major change in the source, blend, or nature of raw materials occurs, or when there is a change in processing conditions, leading to what the manufacturer considers will constitute a new product type being produced, the appropriate product type determination shall be repeated.”.

*Replace the 4<sup>th</sup> and 5<sup>th</sup> paragraphs with:*

“In the product type determination process a manufacturer may take into consideration pre-existing results.

A manufacturer may use the product type determination results carried out by someone else (e.g. another manufacturer or a Research, Technology & Development service provider) to justify his own declaration of performance regarding a product that is manufactured according to the same design and with raw materials, constituents and manufacturing methods of the same kind, provided that permission is given by the owner of the results, and the results are valid for both products.”.

[SIST EN 771-5:2011/kFprA1:2014](https://standards.iteh.ai/catalog/standards/sist/5826c917-5217-4ae8-a8b2-dfd1e532608/sist-en-771-5-2011-kfpra1-2014)

*Delete the NOTE.* <https://standards.iteh.ai/catalog/standards/sist/5826c917-5217-4ae8-a8b2-dfd1e532608/sist-en-771-5-2011-kfpra1-2014>

*Replace the 7<sup>th</sup> and 8<sup>th</sup> paragraphs with:*

“Sampling for product type determination shall be in accordance with Annex A.

The results of product type determination shall be recorded.”.

*Add the following NOTE after the last paragraph:*

“NOTE For the performance characteristics to be determined in order to address the Declaration of Performance and CE marking provisions, see Table ZA.1.”.

## **9 Modification to 8.3.1, General**

*In the 1<sup>st</sup> paragraph, replace “values” with “performance of the characteristics”.*

## **10 Modification to 8.3.10**

*Replace the 1<sup>st</sup> paragraph with:*

“The procedure for dealing with nonconforming products shall be documented. Products that do not conform with the requirements or the performance of the product type shall be segregated and marked accordingly. However, these products may be reassessed by the manufacturer and assigned to a different product type.”.

**EN 771-5:2011/FprA1:2014 (E)****11 Modification to Annex A**

Replace the heading by the following:

“Sampling for determination of product type and for independent testing of consignments”.

**12 Modifications to A.1**

In the 1<sup>st</sup> paragraph, replace “for initial type testing” with “for product type determination”.

In the 2<sup>nd</sup> paragraph, replace “properties” with “characteristics”.

In the NOTE, replace “conformity control” with “assessment and verification of constancy of performance”.

**13 Modification to A.2.5**

Replace the last row in Table A.1 with:

“

Bond strength	5.12	EN 1052-3	Type I specimen	Type II specimen
		Procedure A	27	18
		Procedure B	18	12

”

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**14 Modification to Annex ZA**

Replace Annex ZA with the following new annex:

“

## Annex ZA (informative)

### Clauses of this European Standard addressing the provisions of the EU Construction Products Regulation

**ZA.1 Scope and relevant characteristics**

This European Standard has been prepared under a mandate M/116 (as amended) Masonry and related products given to CEN by the European Commission and the European Free Trade Association.

If this European standard is cited in the Official Journal of the European Union (OJEU), the clauses of this standard, shown in this annex, are considered to meet the provisions of the relevant mandate, under the Regulation (EU) No. 305/2011.



This annex deals with the CE marking of manufactured stone masonry units intended for the uses indicated in Table ZA 1 and shows the relevant clauses applicable.

This annex has the same scope as in Clause 1 of this standard related to the aspects covered by the mandate and is defined by Table ZA.1.

**Table ZA.1 — Relevant clauses for manufactured stone masonry units in masonry walls, columns and partitions**

<b>Product:</b> Manufactured stone masonry units			
<b>Intended use:</b> In masonry walls, columns and partitions			
<b>Essential Characteristics</b>	<b>Clauses in this European Standard related to essential characteristics</b>	<b>Regulatory levels and/or classes</b>	<b>Notes</b>
Dimensions and dimensional tolerances (for units intended to be used in elements subject to structural requirements)	5.2.1 Dimensions 5.2.2 Dimensional tolerances	None	Declared values, in mm, and tolerance category
Configuration (for units intended to be used in elements subject to structural requirements)	5.3.2 Configuration	None	Declared configuration as illustrated or described
Compressive strength (for units intended to be used in elements subject to structural requirements)	5.5 Compressive strength	None	Declared value, in N/mm <sup>2</sup> (with indication of mean or characteristic, preparation, direction of load and unit category)
Dimensional stability (for units intended to be used in elements subject to structural requirements)	5.9 Moisture movement	None	Declared value of moisture movement, in mm/m
Bond strength (for units intended to be used in elements subject to structural requirements)	5.12 Shear bond strength	None	Fixed value; or
	5.13 Flexural bond strength	None	Declared value of initial shear strength, in N/mm <sup>2</sup>
Reaction to fire (for units intended to be used in elements subject to fire requirements)	5.11 Reaction to fire	Euroclass A1 to F	Declared reaction to fire Class A1 to F
Water absorption (for units intended to be used in damp proof courses or in external elements with exposed face)	5.8.1 Water absorption by capillarity	None	Declared value, in g/m <sup>2</sup> ·s
Water vapour permeability (for units intended to be used in external elements)	5.10 Water vapour permeability	None	Declared coefficient
Direct airborne sound insulation (in end use conditions)/ [Density and configuration] (for units to be used in elements subject to acoustic requirements)	5.4 Density	None	Declared value of gross density in kg/m <sup>3</sup> and tolerance category
	5.3.2 Configuration		Declared configuration as illustrated or described
	5.2 Dimensions and tolerances		
Thermal resistance/ [Density and configuration] (for units intended to be used in elements subject to thermal insulation requirements)	5.6 Thermal properties	None	Declared value of thermal conductivity in W/mK and the means of evaluation or configuration and density (see 5.3 and 5.4)
Durability against freeze-thaw	5.7 Durability	None	Declared value <sup>a</sup>
Dangerous substances	5.14 Dangerous substance	None	

<sup>a</sup> As requested by assessment method used.