

SLOVENSKI STANDARD
SIST EN 15037-4:2010/FprA1:2012
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**Montažni betonski izdelki - Stropni sistemi iz nosilcev in polnil - 4. del: Polnila iz
ekspandiranega polistirena**

Precast concrete products - Beam-and-block floor systems - Part 4: Expanded
polystyrene blocks

Betonfertigteile - Balkendecken mit Zwischenbauteilen - Teil 4: Zwischenbauteile aus
Polystyrolhartschaum

Produits préfabriqués en béton - Systèmes de planchers à poutrelles et entrevous -
Partie 4: Entrevous en polystyrène expansé

Ta slovenski standard je istoveten z: EN 15037-4:2010/FprA1

ICS:

91.060.30	Stropi. Tla. Stopnice	Ceilings. Floors. Stairs
91.100.30	Beton in betonski izdelki	Concrete and concrete products

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Precast concrete products - Beam-and-block floor systems - Part 4: Expanded polystyrene blocks

Produits préfabriqués en béton - Systèmes de planchers à
poutrelles et entrevous - Partie 4: Entrevous en polystyrène
expansé

Betonfertigteile - Balkendecken mit Zwischenbauteilen -
Teil 4: Zwischenbauteile aus Polystyrolhartschaum

This draft amendment is submitted to CEN members for unique acceptance procedure. It has been drawn up by the Technical Committee CEN/TC 229.

This draft amendment A1, if approved, will modify the European Standard EN 15037-4:2010. 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

Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents

Page

Foreword.....	3
1 Modification to Clause 2, Normative references	4
2 Modification to 4.3.5.2, Reaction to fire	4
3 Addition of a new sub-clause, 4.3.9,Dangerous substances	4
4 Addition of a new sub-clause, 5.4 Reaction to fire test	4
5 Deletion of the requirement of “Dangerous substances” in Annex ZA	4
6 Modifications to Table ZA.1 Relevant clauses for EPS blocks used in beam-and-block floor systems.....	5
7 Modification to ZA.2 Procedure for attestation of conformity of EPS blocks for beam-and- block floor systems	5

Foreword

This document (EN 15037-4:2010/FprA1:2012) has been prepared by Technical Committee CEN/TC 229 "Precast concrete products", the secretariat of which is held by AFNOR.

This document is currently submitted to the Unique Acceptance Procedure.

This amendment deals with the reaction to fire issue and the dangerous substances requirement. It introduces corrections including title of Annex ZA and reference to European Commission decision.

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 15037-4:2010/FprA1:2012 (E)**1 Modification to Clause 2, Normative references**

Add the following reference:

"EN ISO 11925-2, *Reaction to fire tests — Ignitability of products subjected to direct impingement of flame — Part 2: Single-flame source test (ISO 11925-2)*"

2 Modification to 4.3.5.2, Reaction to fire

Replace the existing text with the following:

"The manufacturer shall declare a Euroclass reaction to fire in accordance with EN 13501-1.

NOTE The experience shows that EPS on the market are classified E or F."

3 Addition of a new sub-clause, 4.3.9, Dangerous substances

Add the following text which has been approved by the European Commission:

"4.3.9 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 on 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/>"

4 Addition of a new sub-clause, 5.4 Reaction to fire test

After 5.3 Compressive resistance test, add the following new sub-clause:

"5.4 Reaction to fire test

For the determination of Euroclass E and F, ignability shall be tested according to EN ISO 11925-2."

Renumber the following sub-clauses accordingly. Replace throughout the text the cross references to 5.4 with 5.5 and the cross references to 5.5 with 5.6.

5 Deletion of the requirement of "Dangerous substances" in Annex ZA

Delete the Warning and Notes 1 and 2 in ZA.1, and the paragraph and the two notes under Figure ZA.2 (starting with "In addition...") in ZA.3.

(As requested recently by the European Commission the mandated requirement of "Dangerous substances" is no longer considered in Annex ZA).

6 Modifications to Table ZA.1 Relevant clauses for EPS blocks used in beam-and-block floor systems

Add the following footnote a to Level and/or class(es) for reaction to fire:

"a The experience shows that EPS on the market are classified E or F."

For the requirement "dangerous substances" in the second column replace "ZA.1 Note" with "4.3.9 Dangerous substances" and delete "according to ZA.3" in the right column.

To be consistent with the other parts of EN 15037 (Part 2, 3 and 5) delete for the requirement "thermal conductivity and thermal resistance" in the last column the words "of the floor".

7 Modification to ZA.2 Procedure for attestation of conformity of EPS blocks for beam-and-block floor systems

Replace the existing text with the following:

"

ZA.2.1 System of attestation of conformity

The system of attestation of conformity of EPS blocks for beam-and-block floor systems, for the essential characteristics indicated in Table ZA.1, in accordance with the decision of the Commission 1999/94/EC of 25 January 1999 as amended by Commission Decision 2012/202/EU of 29 March 2012 (published as L109 the 21 April 2012) and as given in Annex III of the Mandate M/100 "Precast concrete products", is shown in Table ZA.2, for the indicated intended use and relevant levels or classes:

EN 15037-4:2010/FprA1:2012 (E)

Table ZA.2 — System of attestation of conformity

Product	Intended use	Level or class	Attestation of conformity system
Precast normal/lightweight/autoclaved aerated concrete products : EPS blocks for beam-and-block floor systems	for structural use	-	2+
Beam/block floor units and elements incorporating organic materials	For uses subject to regulations on reaction to fire	(A1, A2, B, C) *	1
		(A1, A2, B, C)**, D, E	3
		(A1 to E)***, F	4
System 1: See Directive 89/106/EEC (CPD) Annex III.2.(i), without audit testing of samples.			
System 2+: See Directive 89/106/EEC (CPD) Annex III.2.(ii), First possibility, including certification of the factory production control by an approved body on the basis of initial inspection of factory production and of factory production control as well as of its continuous surveillance, assessment and approval.			
System 3: See Directive 89/106/EEC (CPD) Annex III.2.(ii), Second possibility.			
System 4: See Directive 89/106/EEC (CPD) Annex III.2.(ii), third possibility			
* 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).			
** Products/materials not covered by footnote (*).			
*** Products/materials that do not require to be tested for reaction to fire (e.g. Products/materials of Class A1 according to the Decision 96/603/EC, as amended).			

The attestation of conformity of EPS blocks for beam-and-block floor systems, for the essential characteristics indicated in Table ZA.1, shall be based on the evaluation of conformity procedure indicated in Tables ZA.3a to ZA.3c, resulting from the application of the clauses of this or other European Standards indicated therein.

Table ZA.3.a — Assignment of evaluation of conformity tasks for EPS blocks for beam-and-block floor systems under system 2+ , classified (A1, A2, B, C)* for reaction to fire under system 1

Tasks		Content of the task	Evaluation of conformity clauses to apply
Tasks under the responsibility of the manufacturer	Factory production control (FPC)	Parameters related to all characteristics of Table ZA.1 relevant for the intended use	6.3
	Further testing of samples taken at factory	All characteristics of Table ZA.1 relevant for the intended use	6.3
	Initial type testing by the manufacturer	Parameters related to all characteristics of Table ZA.1 relevant for the intended use except reaction to fire	6.2
Tasks under the responsibility of the product certification body	Initial type testing	Reaction to fire	6.2
	Initial inspection of factory and of FPC	Reaction to fire	6.3
	Continuous surveillance, assessment and approval of FPC	Reaction to fire	6.3
Tasks under the responsibility of the FPC certification body	Initial inspection of factory and of FPC	Parameters related to the relevant characteristics of Table ZA.1, i.e.	6.3
	Continuous surveillance, assessment and approval of FPC	<ul style="list-style-type: none"> — dimensions; — mechanical resistance; — resistance to fire; — durability. 	6.3

Table ZA.3.b— Assignment of evaluation of conformity tasks for EPS blocks for beam-and-block floor systems under system 2+ , classified (A1, A2, B, C), D, E for reaction to fire under system 3**

Tasks		Content of the task	Evaluation of conformity clauses to apply
Tasks under the responsibility of the manufacturer	Factory production control (FPC)	Parameters related to all characteristics of Table ZA.1 relevant for the intended use	6.3
	Initial type testing	All characteristics of Table ZA.1 relevant for the intended use except the reaction to fire	6.2
	Initial type testing by a notified laboratory	Reaction to fire	6.2
	Further testing of samples taken at factory according to the prescribed test plan	Parameters related to all characteristics of Table ZA.1 relevant for the intended use	6.2
Tasks under the responsibility of the FPC certification body	Initial inspection of factory and of FPC	Parameters related to the relevant characteristics of Table ZA.1, i.e.	6.3
	Continuous surveillance, assessment and approval of FPC	<ul style="list-style-type: none"> — dimensions; — mechanical resistance; — resistance to fire; — durability. 	6.3