

საქართველოს სტანდარტი

რკინა-ბეტონის ნაკრები პროდუქცია. ელემენტები შემოღობვისათვის

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თბილისი

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აკრძალულია ამ სტანდარტის გადაცემა მესამე პირებისათვის ან/და მისი სხვა ფორმით გავრცელება

English Version

Precast concrete products - Elements for fences

Produits préfabriqués en béton - Eléments pour clôtures

Betonfertigteile - Betonelemente für Zäune

This European Standard was approved by CEN on 13 November 2011.

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This European Standard exists 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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Contents

Page

The numbering of clauses is strictly related to EN 13369:2004: Common rules for precast concrete products, at least for the first three digits. When a clause of EN 13369:2004 is not relevant or included in a more general reference of this standard, its number is omitted and this may result in a gap on numbering.

Foreword.....4

1 Scope6

2 Normative references6

3 Terms and definitions6

4 Requirements8

4.1 **Material requirements**8

4.2 **Production requirements**9

4.2.1 **Concrete production**9

4.2.2 **Hardened concrete**9

Structural9

4.2.3 **reinforcement**9

4.3 **Finished product requirement**.....9

4.3.1 **Geometrical properties**9

4.3.2 **Surface characteristics** 11

4.3.3 **Mechanical resistance**..... 11

4.3.4 **Resistance and reaction to fire** 15

4.3.5 **Acoustic properties** 15

4.3.6 **Thermal properties** 15

4.3.7 **Durability** 15

4.3.8 **Safety in handling** 16

5 Test methods..... 16

5.1 **Dimensions**..... 16

5.1.1 **Measuring equipment**..... 16

5.1.2 **Posts and rails** 17

5.1.3 **Panels** 19

5.2 **Concrete cover**..... 20

5.3 **Surface characteristic** 20

5.3.1 **Surface finish as cast**..... 20

5.3.2 **Surface finish treated** 20

5.4 **Water absorption** 20

5.5 **Concrete strength** 20

5.6 **Load testing**..... 20

5.7 **Density** 21

6 Evaluation of conformity..... 21

6.1 **General**..... 21

6.2 **Initial type testing** 21

6.2.1 **General**..... 21

6.2.2 **Load bearing capacity and durability** 21

6.2.3 **Other characteristics** 21

6.3 **Factory production control**..... 22

6.3.1 **General**..... 22

6.3.2 **Finished elements**..... 22

6.4 **Independent acceptance testing and compliance criteria**..... 22

7 Marking and labelling 22

7.1 **Information** 22

7.2 **Complementary information**..... 22

საინფორმაციო ნაწილი. სრული ტექსტის სახსრავად შეიძინეთ სტანდარტი.

8	Technical documentation	23
Annex A	(informative) Basic types of fences	24
A.1	General	24
A.2	Solid fence	24
A.3	Open-work fence	25
A.4	Mesh or wire fence	25
A.5	Mixed fence	26
A.6	Rail fence.....	28
A.7	Anti-intruder fence	29
Annex B	(normative) Test method for the determination of the load bearing capacity and the complementary load bearing capacity	32
B.1	Load testing	32
Annex C	(normative) Factory production control procedures	38
Annex D	(informative) Acceptance testing of a consignment at delivery	39
D.1	General	39
D.2	Sampling.....	39
D.3	Places and dates of inspection and acceptance testing.....	39
D.4	Compliance	39
Annex ZA	(informative) Relationship between this European Standard and the essential requirements of EU Directive 89/106/EEC, EU Construction Products Directive	41
ZA.1	Scope and relevant characteristics	41
ZA.2	Procedure for attestation of conformity of precast concrete elements for boundary fences.....	42
ZA.3	CE marking and labelling.....	44
	Bibliography.....	52

Foreword

This document (EN 12839:2012) has been prepared by Technical Committee CEN/TC 229 "Precast concrete products", the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by July 2012, and conflicting national standards shall be withdrawn at the latest by October 2013.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 12839:2001.

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.

This standard is one of a series of product standards for precast concrete products.

For common aspects reference is made to EN 13369:2004, *Common rules for precast concrete products*, from which also the relevant requirements of EN 206-1, *Concrete — Part 1: Specification, performance, production and conformity*, are taken.

The references to EN 13369:2004 by CEN/TC 229 product standards are intended to make them homogeneous and to avoid repetitions of similar requirements.

Eurocodes are taken as a common reference for design aspects. The installation of some structural precast concrete products is dealt with by EN 13670-1, *Execution of concrete structures*, which has at the moment the status of an European prestandard. In all countries, it can be accompanied by alternatives for national application and it shall not be treated as an European standard.

The programme of standards for structural precast concrete products comprises the following standards, in some cases consisting on several parts:

- EN 1168, *Precast concrete products — Hollow core slabs*;
- EN 12794, *Precast concrete products — Foundation piles*;
- EN 12843, *Precast concrete products — Masts and poles*;
- EN 13224, *Precast concrete products — Ribbed floor elements*;
- EN 13225, *Precast concrete products — Linear structural elements*;
- EN 13693, *Precast concrete products — Special roof elements*;
- EN 13747, *Precast concrete products — Floor plates for floor systems*;
- EN 13978 (all parts), *Precast concrete products — Precast concrete garages*;
- EN 14843, *Precast concrete products — Stairs*;

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- EN 14844, *Precast concrete products — Box culverts*;
- EN 14991, *Precast concrete products — Foundation elements*;
- EN 14992, *Precast concrete products — Wall elements*;
- EN 15037-1, *Precast concrete products — Beam-and-block floor systems — Part 1: Beams*;
- EN 15037-2, *Precast concrete products — Beam-and-block floor systems — Part 2: Concrete blocks*;
- EN 15037-3, *Precast concrete products — Beam-and-block floor systems — Part 3: Clay blocks*;
- EN 15050, *Precast concrete products — Bridge elements*;
- EN 15258, *Precast concrete products — Retaining wall elements*.

This standard defines in Annex ZA the application methods of CE marking to products designed using the relevant EN Eurocodes (EN 1992-1-1 and EN 1992-1-2). Where, in default of applicability conditions of EN Eurocodes to the works of destination, design Provisions other than EN Eurocodes are used for mechanical strength, the conditions to affix CE marking to the product are described in ZA.3.4.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.