

საქართველოს ეროვნული სტანდარტი

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English Version

Precast concrete products - Foundation piles

Produits préfabriqués en béton - Pieux de fondation

Betonfertigeteile - Gründungspfähle

This European Standard was approved by CEN on 22 November 2004 and includes Amendment 1 approved by CEN on 6 April 2007.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN Management Centre or to any CEN member.

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 Management Centre has the same status as the official versions.

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Ⓐ 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 is not relevant or included in a more general reference of this European Standard, its number is omitted and this may result in a gap in numbering. Ⓐ

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Foreword

This document (EN 12794:2005+A1:2007) has been prepared by Technical Committee CEN/TC 229 “Precast concrete products”, the secretariat of which is held by AFNOR.

This document was examined by and agreed with a joint working party appointed by the Liaison Group CEN/TC 229 - CEN TC 250, particularly for its compatibility with structural Eurocodes.

This document shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by November 2007 and conflicting national standards shall be withdrawn at the latest by November 2007.

This document includes Amendment 1, approved by CEN on 2007-04-06.

This document supersedes EN 12794:2005.

The start and finish of text introduced or altered by amendment is indicated in the text by tags $\boxed{A_1}$ $\boxed{A_1}$.

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 Construction Products Directives (89/106/EEC).

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

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

The references to EN 13369 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 ENV 13670-1: *Execution of concrete structures — Part 1: Common rules*, 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 of 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 13747, *Precast concrete products — Floor plates for floor systems*

prEN 15037-1, *Precast concrete products — Beam-and-block floor systems — Part 1: Beams*

prEN 15037-2, *Precast concrete products — Beam-and-block floor systems — Part 2: Blocks*

EN 13224, *Precast concrete products — Ribbed floor elements*

EN 13225, *Precast concrete products — Linear structural elements*

EN 12794:2005+A1:2007 (E)

EN 14992, *Precast concrete products — Wall elements : Products properties and performances*

prEN 15258, *Precast Concrete Products — Retaining wall elements*

EN 13693, *Precast concrete products — Special roof elements*

EN 14844, *Precast concrete products — Box culverts*

EN 13978, *Precast concrete products — Precast concrete garages*

EN 14991, *Precast concrete products — Foundation elements*

EN 15050, *Precast concrete bridge elements*

EN 14843, *Precast concrete products — Stairs*

This document defines in Annex ZA the application methods of CE marking to products designed using the relevant EN Eurocodes (EN 1992-1-1). 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, 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 and United Kingdom.

Introduction

This document specifies the requirements, the basic performance criteria and detailing provisions for precast concrete foundation piles manufactured in a factory environment, stored, transported and ultimately installed on a construction site. The design of structural products shall ensure their fitness for the particular application. Particular attention is to be paid to design co-ordination with other parts of the construction.