Konstruktsiooni betooni katsetamine. Osa 1: Puursüdamikud. Võtmine, ülevaatus ja survekatse

Testing concrete in structures - Part 1: Cored nin, Occurrence of the second specimens - Taking, examining and testing in compression



EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 12504-1:2009 sisaldab Euroopa standardi EN 12504-1:2009 ingliskeelset teksti.

This Estonian standard EVS-EN 12504-1:2009 consists of the English text of the European standard EN 12504-1:2009.

Standard on kinnitatud Eesti Standardikeskuse 27.03.2009 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

This standard is ratified with the order of Estonian Centre for Standardisation dated 27.03.2009 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 11.02.2009.

Date of Availability of the European standard text 11.02.2009.

Standard on kättesaadav Eesti standardiorganisatsioonist.

The standard is available from Estonian standardisation organisation.

ICS 91.100.30

Võtmesõnad: betoon, katsetamine, konstruktsiooni betoon, puursüdamik

Standardite reprodutseerimis- ja levitamisõigus kuulub Eesti Standardikeskusele

Andmete paljundamine, taastekitamine, kopeerimine, salvestamine elektroonilisse süsteemi või edastamine ükskõik millises vormis või millisel teel on keelatud ilma Eesti Standardikeskuse poolt antud kirjaliku loata.

EUROPEAN STANDARD NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 12504-1

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Supersedes EN 12504-1:2000

English Version

Testing concrete in structures - Part 1: Cored specimens - Taking, examining and testing in compression

Essais pour béton dans les structures - Partie 1: Carottes - Prélèvement, examen et essais en compression Prüfung von Beton in Bauwerken - Teil 1: Bohrkernproben - Herstellung, Untersuchung und Prüfung der Druckfestigkeit

This European Standard was approved by CEN on 27 December 2008.

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.

CEN members are the national standards bodies of 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.



EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This document (EN 12504-1:2009) has been prepared by Technical Committee CEN/TC 104 "Concrete and related products", the secretariat of which is held by DIN.

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 August 2009, and conflicting national standards shall be withdrawn at the latest by August 2009.

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 12504-1:2000.

It is recognized good practice to include measurement of density prior to the determination of compressive strength, as a check on compaction of the concrete.

In drafting the standard consideration has been given to the results of the research programme, part funded by the EC under the Measurement and Testing Programme, contract MAT1-CT94-0043.

The standard includes simple guidance on the process of taking cores, but does not consider a sampling plan. It also provides procedures for visual examination and compressive strength testing, but not the interpretation of the results.

This standard is one of a series concerned with testing concrete.

This series EN 12504 includes the following parts:

EN 12504 Testing concrete in structures

- Part 1: Cored specimens Taking, examining and testing in compression;
- Part 2: Non-destructive testing Determination of rebound number;
- Part 3: Determination of pull-out force;
- Part 4: Determination of ultrasonic pulse velocity.

The following amendments have been made to the 2000-03 edition of this standard:

- editorial revision
- compressive strength to be expressed to the nearest 0,1 MPa (N/mm²) instead of 0,5 MPa (N/mm²)
- 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 the United Kingdom.

1 Scope

This European Standard specifies a method for taking cores from hardened concrete, their examination, preparation for testing and determination of compressive strength.

- NOTE 1 This European Standard does not give guidance on the decision to drill cores or on the locations for drilling.
- NOTE 2 This European Standard does not provide procedures for interpreting the core strength results.
- NOTE 3 For the assessment of in-situ compressive strength in structures and precast concrete components EN 13791 may be used.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 12390-1, Testing hardened concrete - Part 1: Shape, dimensions and other requirements for test specimens and moulds

EN 12390-3:2009, Testing hardened concrete - Part 3: Compressive strength of test specimens

EN 12390-4:2000, Testing hardened concrete - Part 4: Compressive strength - Specification for testing machines

EN 12390-7, Testing hardened concrete - Part 7: Density of hardened concrete