EESTI STANDARD EVS-EN 990:2002

Test methods for verification of corrosion protection of reinforcement in autoclaved aerated concrete and lightweight aggregate concrete with open structure

Test methods for verification of corrosion protection of reinforcement in autoclaved aerated concrete and lightweight aggregate concrete with open structure

EESTI STANDARDIKESKUS

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 990:2002 sisaldab Euroopa standardi EN 990:2002 ingliskeelset teksti. Käesolev dokument on jõustatud 18.10.2002 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes. Standard on kättesaadav Eesti standardiorganisatsioonist.	This Estonian standard EVS-EN 990:2002 consists of the English text of the European standard EN 990:2002. This document is endorsed on 18.10.2002 with the notification being published in the official publication of the Estonian national standardisation organisation. The standard is available from Estonian standardisation organisation.

Käsitlusala: This European Standard specifies methods for verification of the effectiveness of the corrosion protection of reinforcing steel embedded in autoclaved aerated concrete (AAC) components according to prEN 12602 or components of lightweight aggregate concrete with open structure (LAC) according to prEN 1520.	**Scope:** This European Standard specifies methods for verification of the effectiveness of the corrosion protection of reinforcing steel embedded in autoclaved aerated concrete (AAC) components according to prEN 12602 or components of lightweight aggregate concrete with open structure (LAC) according to prEN 1520.

ICS 91.100.30

Võtmesõnad: concrete, effectivness, endurance, examination, examination (quality assurance), fatigue tests, inspection, lightweight concrete, manufacturing, production, quality control, reinforcement, steels, structures, test equipment, test specimens, testing

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 990

September 2002

ICS 91.100.30

Supersedes EN 990 : 1995.

English version

Test methods for verification of corrosion protection of reinforcement in autoclaved aerated concrete and lightweight aggregate concrete with open structure

Méthodes d'essai pour la vérification de la protection contre la corrosion des armatures dans le béton cellulaire autoclavé et le béton de granulats légers à structure ouverte

Prüfverfahren zur Überprüfung des Korrosionsschutzes der Bewehrung in dampfgehärtetem Porenbeton und in haufwerksporigem Leichtbeton

This European Standard was approved by CEN on 2002-07-21.

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 Management Centre or to any CEN member.

The European Standards exist 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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Management Centre: rue de Stassart 36, B-1050 Brussels

Ref. No. EN 990 : 2002 E

Contents

Foreword

This document (EN 990:2002) has been prepared by Technical Committee CEN /TC 177 "Prefabricated reinforced components of autoclaved aerated concrete or light-weight aggregate concrete with open structure", 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 March 2003, and conflicting national standards shall be withdrawn at the latest by March 2003.

This document supersedes EN 990:1995.

In order to meet the performance requirements as laid down in the product standards for prefabricated reinforced components of autoclaved aerated concrete or for prefabricated reinforced components of lightweight aggregate concrete with open structure a number of standardised test methods are necessary.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This European Standard specifies the test methods for verification of the effectiveness of the corrosion protection of reinforcing steel embedded in components of autoclaved aerated concrete (AAC) according to prEN 12602 or in components of lightweight aggregate concrete with open structure (LAC) according to prEN 1520.

Tests according to this European Standard are not required for LAC-components if corrosion protection is achieved by embedding the reinforcing bars completely in a zone of concrete with closed structure according to prEN 1520:2002, 5.8.3.3.

Three different methods of short-term tests (methods 1 to 3) are provided.

The test methods can be used to examine the fundamental suitability of a corrosion protective system in combination with a defined manufacturing process for the production of reinforced components. They can also be used for current production control.

NOTE The specification of three different short-term test methods is based on historical reasons and established procedures rather than on technical needs.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text, and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

prEN 1520:2002, *Prefabricated reinforced components of lightweight aggregate concrete with open structure.*

prEN 12602, *Prefabricated reinforced components of autoclaved aerated concrete.*