# Autoklaavse mullbetooni survetugevuse määramine

Determination of the compressive strength of autoclaved aerated concrete

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

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| Käesolev Eesti standard EVS-EN 679:1999 sisaldab Euroopa standardi EN 679:1993 ingliskeelset teksti. | This Estonian standard EVS-EN 679:1999 consists of the English text of the European standard EN 679:1993. |
| Standard on kinnitatud Eesti Standardikeskuse 23.11.1999 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas. | This standard is ratified with the order of Estonian Centre for Standardisation dated 23.11.1999 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 . | Date of Availability of the European standard text . |
| Standard on kättesaadav Eesti standardiorganisatsioonist. | The standard is available from Estonian standardisation organisation. |



**ICS** 91.100.30

Võtmesõnad: betoon, mullbetoon, määramine, surveteimid, survetugevus,

Inglisekeelsed võtmesõnad: cellular concrete, compression tests, compressive strength, concrete, determination,

EUROPEAN STANDARD

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Descriptors: Concrete, cellular concrete, compression tests, determination, compressive strength

English version

# Determination of the compressive strength of autoclaved aerated concrete

Détermination de la résistance à la compression du béton cellulaire autoclavé

Bestimmung der Druckfestigkeit von dampfgehärtetem Porenbeton

This European Standard was approved by CEN on 1993-12-07. 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 Central Secretariat or to any CEN member.

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

**CEN**

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

**Central Secretariat: rue de Stassart,36 B-1050 Brussels**

## Contents



### Foreword

This European Standard has been prepared by CEN/TC 177 "Prefabricated reinforced components of autoclaved aerated concrete or lightweight aggregate concrete with open structure".

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 June 1994, and conflicting national standards shall be withdrawn at the latest by June 1994.

The Standard was approved and in accordance with the CEN/CENELC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom.

## 1 Scope

This European Standard specifies the procedure for the determination of the compressive strength of autoclaved aerated concrete.

## 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 the amendment or revision. For undated references the latest edition of the publication referred to applies.

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| ISO 4012:1978 | Concrete - Determination of compressive strength of test specimens |
| EN 678 | Determination of dry density of autoclaved aerated concrete |
| EN 1353[1)] | Determination of moisture content of autoclaved aerated concrete. |

## 3 Principle

The compressive strength is determined on test specimens as the ratio between the rupture load in axial compression and the section of the test specimen perpendicular to the loading direction.

## 4 Apparatus

a) a saw for cutting test specimens;

b) a compression testing machine, preferably hydraulically operated, which meets the requirements of ISO 4012:1978, clause 5;

c) calipers, capable of reading the dimensions of the test specimens to an accuracy of 0,1 mm;

d) a ventilated drying oven, capable of maintaining a temperature of (105 ± 5)°C;

e) a straight edge, at least 200 mm long, a 0,1 mm-feeler gauge, a 1 mm-feeler gauge, and a square;

f) a balance, capable of determining the mass of the test specimens to an accuracy of 0,1 %.

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1) At present at the draft stage