

**Betoonvalmistooted. Klaaskiudbetooni
teimimismeetod. Osa 4:
Paindetugevuse määramise lihtsustatud
meetod**

Precast concrete products - Test method for glass-fibre reinforced cement - Part 4: Measuring bending strength, "Simplified bending test" method

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 1170-4:2000 sisaldab Euroopa standardi EN 1170-4:1997 ingliskeelset teksti. Käesolev dokument on jõustatud 19.07.2000 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes. Standard on kättesaadav Eesti standardiorganisatsioonist.	This Estonian standard EVS-EN 1170-4:2000 consists of the English text of the European standard EN 1170-4:1997. This document is endorsed on 19.07.2000 with the notification being published in the official publication of the Estonian national standardisation organisation. The standard is available from Estonian standardisation organisation.
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Käsitlusala: See Euroopa standard esitab teimimismeetodi, mida saab rakendada klaaskiudbetooni paindetugevuse nõuetele vastavuse kontrolliks, tootmisprotsessi muutumatuse hindamiseks ja tihendamisühtluse jälgimiseks.	Scope:
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ICS 91.100.40

Võtmesõnad: betoontooted, klaas, komposiitmaterjalid, kontroll, mõõtmised, paindeteimid, piirtugevus, tarielemendid, tsemendid, vastavusteimid

ICS 91.100.30

Descriptors: Glass fibre reinforced cement, bending strength, testing.

English version

Precast concrete products

Test method for glass fibre reinforced cement

Part 4: Measuring bending strength,
'Simplified bending test' method

Produits préfabriqués en béton –
Méthode d'essai des composites
ciment-verre – Partie 4: Mesure de la
résistance en flexion – Méthode dite
'Essai simplifié de flexion'

Vorgefertigte Betonerzeugnisse –
Prüfverfahren für Glasfaserbeton –
Teil 4: Bestimmung der Biegezug-
festigkeit – Einfache Biegezugprüfung

This European Standard was approved by CEN on 1997-10-29.

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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.

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 Central Secretariat has the same status as the official versions.

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CEN

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

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Foreword

This European Standard 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 May 1998, and conflicting national standards shall be withdrawn at the latest by May 1998.

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, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This European Standard specifies a test method, applicable to glass fibre reinforced cement, for verifying conformity to the bending strength specification, for evaluating the uniformity of the production process and for checking the homogeneity of the compaction.

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.

ISO 7500-1	Metallic materials - Verification of static uniaxial testing machines - Part 1: Tensile testing machines
prEN 1169	Performance criteria for glass fibre reinforced cement - Manufacture control plan

3 Symbols and abbreviations

3.1 Symbols

b	: width of test piece, in millimetres ;
d	: thickness of test piece (to the nearest 0,1 mm), in millimetres ;
F_{MOR}	: failure load, in Newtons ;
l	: length of test piece, in millimetres ;
L	: span, in millimetres ;
m_w	: mass of test piece before drying, "wet mass", in grammes ;
m_d	: mass of test piece after drying, "dry mass", in grammes ;
W	: water content, in percentage by mass ;
σ_{MOR}	: stress at failure by bending, in megapascals.

3.2 Abbreviation

GRC : Glass fibre reinforced cement.