

Precast concrete products - Specification for the alkali resistance of glassfibre products for reinforcement of cements and concretes

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 15422:2008 sisaldab Euroopa standardi EN 15422:2008 ingliskeelset teksti.

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English Version

Precast concrete products - Specification of glassfibres for reinforcement of mortars and concretes

Produits préfabriqués en béton - Spécification des fibres de verre destinées au renforcement des mortiers et des bétons

Betonfertigteile - Festlegung für Glasfasern als Bewehrung in Mörtel und Beton

This European Standard was approved by CEN on 19 January 2008.

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Foreword

This document (EN 15422:2008) 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of an identical text or by endorsement, at the latest by September 2008, and conflicting national standards shall be withdrawn at the latest by September 2008.

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1 Scope

This European standard specifies requirements for glass fibres used as reinforcement in mortars and concrete for non-structural products. It applies to continuous filament glass fibre products in the form of roving, strands, or chopped strands and related products such as nets or mats based on these products.

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 14649, *Precast concrete products — Test method for strength retention of glass fibres in cement and concrete (SIC TEST)*

EN ISO 1889, *Reinforcement yarns — Determination of linear density (ISO 1889:1997)*

ISO 1887, *Textile glass — Determination of combustible-matter content*

ISO 1888, *Textile glass — Staple fibres or filaments — Determination of average diameter*

ISO 3341, *Textile glass yarns — Determination of breaking force and breaking elongation*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1 Alkali Resistant (AR) glassfibre
glassfibre product resistant to the alkaline environment of matrices made from hydraulic cement. Glassfibre manufactured and sold for the reinforcement of mortars and concrete products. The resistance is due particularly to the specific composition of the glass

NOTE See EN 1169.

3.2 filament
single glassfibre as drawn

(adapted from EN ISO 472)

3.3 strand
number of approximately parallel filaments of 8 microns to 30 microns individual filament diameter, held together with a size

(adapted from EN ISO 472)

3.4 cake
number of strands wound together on a former; an intermediate stage in the manufacturing process, prior to the conversion to "roving" or "mats"

(adapted from EN ISO 472)