SLOVENSKI STANDARD
kSIST FprEN 1863-1:2011

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Steklo v gradbeništvu - Toplotno utrjevano natrij-kalcijevo silikatno steklo - 1. del: Definicija in opis

Glass in building - Heat strengthened soda lime silicate glass - Part 1: Definition and description

Glas im Bauwesen - Teilvorgespanntes Kalknatronglas - Teil 1: Definition und Beschreibung

Verre dans la construction - Verre de silicate sodo-calcique durci thermiquement - Partie 1: Définition et description

Ta slovenski standard je istoveten z: **FprEN 1863-1**

ICS:

81.040.20	Steklo v gradbeništvu	Glass in building

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EUROPEAN STANDARD

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FINAL DRAFT
FprEN 1863-1

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ICS 81.040.20

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English Version

Glass in building - Heat strengthened soda lime silicate glass - Part 1: Definition and description

Verre dans la construction - Verre de silicate sodo-calcique durci thermiquement - Partie 1: Définition et description

Glas im Bauwesen - Teilvorgespanntes Kalknatronglas - Teil 1: Definition und Beschreibung

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

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Foreword

This document (FprEN 1863-1:2011) has been prepared by Technical Committee CEN/TC 129 “Glass in building”, the secretariat of which is held by NBN.

This document is currently submitted to the Unique Acceptance Procedure.

This document will supersede EN 1863-1:2000.

Introduction

Heat strengthened soda lime silicate glass has a higher resistance to thermal stress and an enhanced mechanical strength when compared to annealed glass.

NOTE CEN/TC 129/WG 8 is producing standards for the determination of the design strength of glass and is preparing a design method.

This part of the document does not stand alone. It is a part of one document:

— EN 1863-1, *Glass in building — Heat strengthened soda lime silicate glass — Part 1: Definition and description*;

— EN 1863-2, *Glass in building — Heat strengthened soda lime silicate glass — Part 2: Evaluation of conformity/Product standard.*

1 Scope

This European Standard specifies tolerances, flatness, edgework, fragmentation and physical and mechanical characteristics of monolithic flat heat strengthened soda lime silicate glass of nominal thicknesses from 3 mm to 12 mm for use in buildings.

Information on curved heat strengthened soda lime silicate glass is given in Annex A, but this product does not form part of this standard.

Other requirements, not specified in this standard, can apply to heat strengthened soda lime silicate glass which is incorporated into assemblies, e.g. laminated glass or insulating glass units, or undergo an additional treatment, e.g. coating. The additional requirements are specified in the appropriate product standard. Heat strengthened soda lime silicate glass, in this case, does not lose its mechanical or thermal characteristics.

This standard does not cover glass sandblasted after toughening.

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 572-1, *Glass in building — Basic soda lime silicate glass products — Part 1: Definitions and general physical and mechanical properties*

EN 572-2, *Glass in building — Basic soda lime silicate glass products — Part 2: Float glass*

EN 572-4, *Glass in building — Basic soda lime silicate glass products — Part 4: Drawn sheet glass*

EN 572-5, *Glass in building — Basic soda lime silicate glass products — Part 5: Patterned glass*

EN 572-8, *Glass in building — Basic soda lime silicate glass products — Part 8: Supplied and final cut sizes*

EN 673, *Glass in building — Determination of thermal transmittance (U value) — Calculation method*

EN 1096-1, *Glass in building — Coated glass — Part 1: Definitions and classification*

EN 1288-3, *Glass in building — Determination of the bending strength of glass — Part 3: Test with specimen supported at two points (four point bending)*

3 Terms and definitions

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

3.1
curved heat strengthened soda lime silicate glass
heat strengthened soda lime silicate glass which has been deliberately given a specific profile during manufacture (see Annex A)

3.2
edge deformation
deformation of the edge because of the tong marks