Glass in building - Fire resistant glazed elements with transparent or translucent glass products - Classification of fire resistance

Glass in building - Fire resistant glazed elements with transparent or translucent glass products - Classification of fire resistance



EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 357:2005 sisaldab Euroopa standardi EN 357:2004 ingliskeelset teksti.

Käesolev dokument on jõustatud 22.02.2005 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 357:2005 consists of the English text of the European standard EN 357:2004.

This document is endorsed on 22.02.2005 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 a classification of transparent or translucent glass products for use in appropriate glazed elements intended specially to provide fire resistance. These glass products are described in European Standards on basic and processed glass products.

Scope:

This European Standard specifies a classification of transparent or translucent glass products for use in appropriate glazed elements intended specially to provide fire resistance. These glass products are described in European Standards on basic and processed glass products.

5

ICS 81.040.20

Võtmesõnad: fire resistant glass, glass in building, glazed assemblies

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN 357

November 2004

ICS 81.040.20

Supersedes EN 357:2000

English version

Glass in building - Fire resistant glazed elements with transparent or translucent glass products - Classification of fire resistance

Verre dans la construction - Eléments de construction vitrés résistant au feu, incluant des produits verriers transparent ou translucides - Classification de la résistance au feu

Glas im Bauwesen - Brandschutzverglasungen aus durchsichtigen oder durchscheinenden Glasprodukten -Klassifizierung des Feuerwiderstandes

This European Standard was approved by CEN on 10 September 2004.

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.

This European Standard exists 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.

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



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

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

Contents

		page
Forev	word	
1	Scope	4
2	Normative references	4
3	Terms and definitions	_
4	Glass products	
5 5.1 5.2 5.3	ClassificationGeneralLoadbearing separating fire resistant glazed elementsNon-loadbearing separating fire resistant glazed elements	7 8
6 6.1 6.2	Requirements and test methods General requirements and test methods Fire resistance requirements and tests	9
	x A (informative) Typical structures commonly available in the relevant fire resistant glaze elements	11
		5

Foreword

This document (EN 357:2004) has been prepared by Technical Committee CEN /TC 129, "Glass in building", the secretariat of which is held by IBN.

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 2005, and conflicting national standards shall be withdrawn at the latest by May 2005.

This document supersedes EN 357:2000.

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

A Protein and a protein a protein a protein a protein and a protein a protein and a protein a pr

1 Scope

This document specifies a classification of transparent or translucent glass products for use in appropriate glazed elements intended specially to provide fire resistance. These glass products are described in European Standards on basic and processed glass 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 572-2, Glass in building Basic soda lime silicate glass products Part 2: Float glass.
- EN 572-3, Glass in building Basic soda lime silicate glass products Part 3: Polished wired 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 572-6, Glass in building Basic soda lime silicate glass products Part 6: Wired patterned glass.
- EN 572-7, Glass in building Basic soda lime silicate glass products Part 7: Wired or unwired channel shaped glass.
- EN 1051-1, Glass in building Glass blocks and glass pavers Part 1: Definitions and description.
- EN 1096-1, Glass in building Coated glass Part 1: Definitions and classification.
- EN 1096-2, Glass in building Coated glass Part 2: Requirements and test methods for class A, B and S coatings.
- EN 1096-3, Glass in building Coated glass Part 3: Requirements and test methods for class C and D coatings.
- EN 1279-1, Glass in building Insulating glass units Part 1: Generalities, dimensional tolerances and rules for the system description.
- EN 1279-2, Glass in building Insulating glass units Part 2: Long term test method and requirements for moisture penetration.
- EN 1279-3, Glass in building Insulating glass units Part 3: Long term test method and requirements for gas leakage rate and for gas concentration tolerances.
- EN 1279-4, Glass in building Insulating glass units Part 4: Methods of test for the physical attributes of edge seals.
- EN 1363-1, Fire resistance tests Part 1: General requirements.
- EN 1363-2, Fire resistance tests Part 2: Alternative and additional procedures.
- EN 1364-1, Fire resistance tests for non-loadbearing elements Part 1: Walls.
- EN 1364-2, Fire resistance tests for non-loadbearing elements Part 2: Ceilings.
- prEN 1364-3, Fire resistance tests for non-loadbearing elements Part 3: Curtain walling.
- EN 1365-1, Fire resistance tests for loadbearing elements Part 1: Walls.

- EN 1365-2, Fire resistance tests for loadbearing elements Part 2: Floors and roofs.
- EN 1634-1, Fire resistance tests for door and shutter assemblies Part 1: Fire doors and shutters.
- EN 1634-3, Fire resistance tests for door and shutter assemblies Part 3: Smoke control doors and shutters.
- EN 1748-1-1, Glass in building Special basic products Borosilicate glasses Part 1-1: Definition and general physical and mechanical properties.
- EN 1748-2-1, Glass in building Special basic products Glass ceramics Part 2-1 Definitions and general physical and mechanical properties.
- EN 1863-1, Glass in building Heat strengthened soda lime silicate glass Part 1: Definition and description.
- EN 12150-1, Glass in building Thermally toughened soda lime silicate safety glass Part 1: Definition and description.
- EN 12337-1, Glass in building Chemically strengthened soda lime silicate glass Part 1: Definition and description.
- EN 13024-1, Glass in building Thermally toughened borosilicate safety glass Part 1: Part 1: Definition and description.
- EN 13501-2, Fire classification of construction products and building elements Part 2: Classification using data from fire resistance tests, excluding ventilation services.
- EN 14178-1, Glass in building Basic alkaline earth silicate glass Part 1: Float glass.
- prEN 14179-1, Glass in building Heat soaked thermally toughened soda lime silicate safety glass Part 1: Definition and description.
- prEN 14321-1, Glass in building Thermally toughened alkaline earth silicate safety glass Part 1: Definition and description.
- EN ISO 12543-1, Glass in building Laminated glass and laminated safety glass Part 1: Definitions and description of component parts (ISO 12543-1:1998).
- EN ISO 12543-2, Glass in building Laminated glass and laminated safety glass Part 2: Laminated safety glass.
- EN ISO 12543-3, Glass in building Laminated glass and laminated safety glass Part 3: Laminated glass (ISO 12543-3:1998).
- EN ISO 12543-4, Glass in building Laminated glass and laminated safety glass Part 4: Test methods for durability (ISO 12543-4:1998).
- EN ISO 12543-5, Glass in building Laminated glass and laminated safety glass Part 5: Dimensions and edge finishing (ISO 12543-5:1998).
- EN ISO 12543-6, Glass in building Laminated glass and laminated safety glass Part 6: Appearance (ISO 12543-6:1998).
- ISO 834, Fire resistance tests Elements of building construction.