

Glass in building - Safety in case of fire, fire resistance -
Glass testing methodology for the purpose of
classification

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

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English Version

Glass in building - Safety in case of fire, fire resistance - Glass testing methodology for the purpose of classification

Verre dans la construction - Sécurité en cas d'incendie,
résistance au feu - Méthodologie d'essai du verre à des
fins de classification

Glas im Bauwesen - Brandsicherheit,
Feuerwiderstandsfähigkeit - Verfahrensweise von
Glasprüfungen zur Klassifizierung

This European Standard was approved by CEN on 9 January 2020.

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents	Page
European foreword	3
Introduction	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	6
4 Principles	9
4.1 General.....	9
4.2 Testing to determine fire resistance as a product characteristic for a glass.....	9
4.3 Applicable fire resistance tests.....	9
4.4 Glass products	10
4.5 Classification report(s)	10
5 Sampling	10
5.1 General.....	10
5.1.1 General remark.....	10
5.1.2 Classification of a glass product.....	10
5.1.3 Market application testing.....	10
5.2 For determination of fire resistance as a product characteristic for a glass.....	11
5.2.1 Classification of a glass product.....	11
5.2.2 Market application testing.....	12
5.3 Non-sampled test results.....	12
5.3.1 General.....	12
5.3.2 Classification of a glass product.....	12
5.3.3 Market application	12
5.4 Pre-existing test data.....	12
6 Use of test data for the extended field of application (EXAP)	12
Annex A (informative) List of possible glass product standards (see 4.5)	13
A.1 Monolithic basic or special basic glasses.....	13
A.2 Monolithic thermally toughened glasses.....	13
A.3 Laminated and laminated safety glasses	13
A.4 Insulating glass units	13
A.5 Coated glass.....	14
Annex B (informative) Market application testing	15
Bibliography	16

European foreword

This document (EN 15998:2020) has been prepared by Technical Committee CEN/TC 129 “Glass in building”, the secretariat of which is held by NBN.

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 March 2021, and conflicting national standards shall be withdrawn at the latest by March 2021.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 15998:2010.

The following main changes have been made in EN 15998:2020 compared with edition EN 15998:2010:

- update of terms and definitions to be in line with the relevant standards in the area of fire safety in buildings;
- editorial updates.

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

Introduction

According to mandate M/135 “Glass in building”, one of the essential characteristics that may be claimed is Safety in case of fire – Resistance to fire (for glass for use in a glazed assembly intended specifically for fire resistance). However, glass products cannot be tested and classified for fire resistance without being incorporated into a fire resistant glazed assembly.

1 Scope

This document specifies the testing methodology to be used for glass products that are claiming fire resistance. The methodology covers type testing as defined in the relevant glass product standard.

NOTE This document provides guidance with the declaration of the characteristic, Safety in case of fire – Resistance to fire (for glass for use in a glazed assembly intended specifically for fire resistance) for the CE marking.

The same methodology can also be used to determine the performance classification for market applications (see Annex B).

The methodology covers all glass product types that may require testing and classification for fire resistance.

Fire resistance testing covers end use applications, for example:

- doors;
- partitions, walls (including curtain walling);
- floors, roofs;
- ceilings.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 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*

EN 1364-3, *Fire resistance tests for non-loadbearing elements — Part 3: Curtain walling — Full configuration (complete assembly)*

EN 1364-4, *Fire resistance tests for non-loadbearing elements — Part 4: Curtain walling — Part configuration*

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 and smoke control tests for door and shutter assemblies, openable windows and elements of building hardware — Part 1: Fire resistance test for door and shutter assemblies and openable windows*

EN 13501-2, *Fire classification of construction products and building elements — Part 2: Classification using data from fire resistance tests, excluding ventilation services*