

Nadomešča:**SIST EN 15998:2011**

Steklo v gradbeništvu - Varnost v primeru požara, požarna odpornost - Metodologija preskušanja stekla za namene klasificiranja

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

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

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

<https://standards.iteh.ai/catalog/standards/sist/5e59fb1-873a-485b-8a32-09b19afd2d8d/sist-en-15998-2020>**Ta slovenski standard je istoveten z: EN 15998:2020****ICS:**

13.220.50	Požarna odpornost gradbenih materialov in elementov	Fire-resistance of building materials and elements
81.040.20	Steklo v gradbeništvu	Glass in building

SIST EN 15998:2020**en,fr,de**

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EUROPEAN STANDARD

EN 15998

NORME EUROPÉENNE

EUROPÄISCHE NORM

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Supersedes EN 15998:2010

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

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Feuerwiderstandsfähigkeit - Verfahrensweise von
Glasprüfungen zur Klassifizierung

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

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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 CEN-CENELEC Management Centre has the same status as the official versions.

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EUROPÄISCHES KOMITEE FÜR NORMUNG

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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of an identical text or by endorsement, at the latest by March 2021, and conflicting national standards shall be withdrawn at the latest by March 2021.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.

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EN 15998:2020 (E)**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.

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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*

EN 15998:2020 (E)**3 Terms and definitions**

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

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>

3.1**extended field of application****EXAP**

outcome of a process (involving the application of defined rules that can incorporate calculation procedures) that predicts, for a variation of a product property and/or its intended end use application(s), a test result on the basis of one or more test results to the same test standard

[SOURCE: EN 13501-2:2016, 3.29]

3.2**fire resistant glass**

glass product, (i.e. monolithic glass, laminated glass, insulating glass units), that when used in a glazed assembly, can have its performance determined and classified in accordance with EN 13501-2

Note 1 to entry: The term “insulating” when used as an insulating glass unit according to EN 1279-1, should not be confused with the term “insulation” used in EN 13501-2 classification standard for fire resistant glazed elements.

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3.3**fire performance classification**

result of (a) fire resistance test(s) expressed as required in EN 13501-2

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Note 1 to entry: The classification is reported with respect to integrity (E), integrity and radiation (EW), integrity and insulation (EI), and loadbearing capacity and integrity (RE) and loadbearing capacity, integrity and insulation (REI).

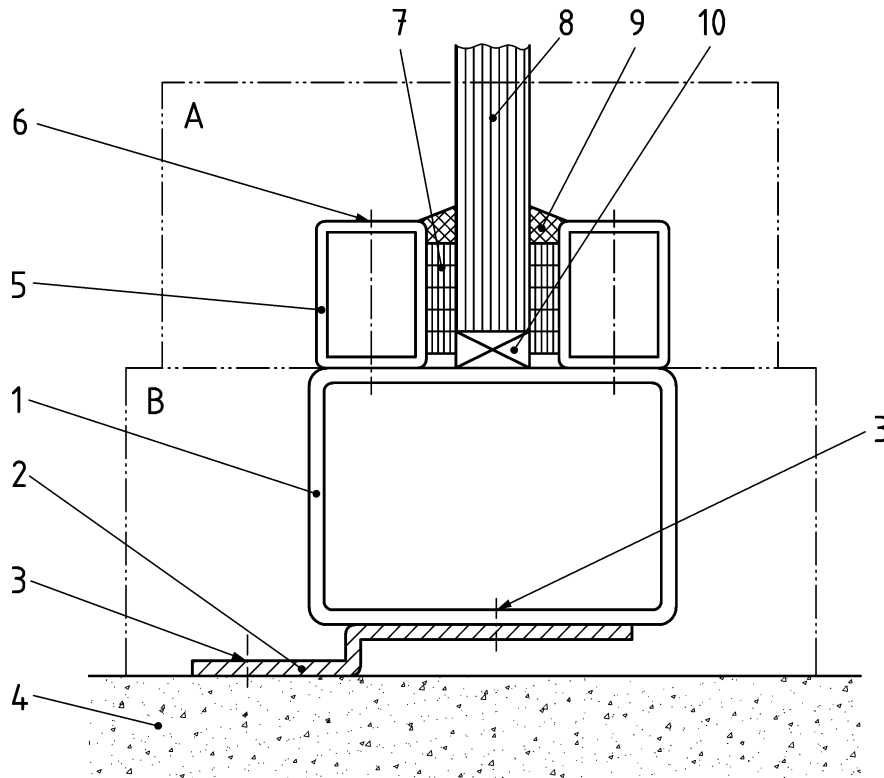
Note 2 to entry: The classification of a specific glass product will be one or more of E, EW, EI, RE, REI.

Note 3 to entry: The time obtained for different classifications may be different, e.g. EW 30, EI 20.

3.4**framing system**

frame profile and fixing to the supporting construction

Note 1 to entry: See Figure 1, B.

**Key**

- A glazing system
 B framing system
 1 frame
 2 metal anchor, screwed or bolted to the supporting construction (4) by a fixing anchor (3)
 3 screw and fixing anchor
 4 supporting construction
 5 bead, screwed or clipped or clamped
 6 bead fixing
 7 glazing strip
 8 glass
 9 sealing or gasket
 10 setting block

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Figure 1 — Fire resistant framing and glazing system

3.5**glass product range**

group of fire resistant glass (see 3.2) products, including products from one or more glass product families, e.g. monolithic glass, laminated glass, insulating glass units, defined and produced by one manufacturer for which the characteristic resistance to fire from any one product within the range is valid for all other products within this range

Note 1 to entry: The glass product families are defined in the relevant product standards.