

STN	Rozšírená aplikácia výsledkov skúšok požiarnej odolnosti Nenosné steny Časť 4: Zasklené konštrukcie	STN EN 15254-4 92 0220
------------	--	--

Extended application of results from fire resistance tests - Non-loadbearing walls - Part 4: Glazed constructions

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 04/19

Obsahuje: EN 15254-4:2018

Oznámením tejto normy sa ruší
STN EN 15254-4+A1 (92 0220) z februára 2012

128444

EUROPEAN STANDARD

EN 15254-4

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2018

ICS 13.220.50; 91.060.10

Supersedes EN 15254-4:2008+A1:2011

English Version

Extended application of results from fire resistance tests - Non-loadbearing walls - Part 4: Glazed constructions

Extension du champ d'application des résultats des
essais de résistance au feu - Éléments non-porteurs -
Partie 4 : Constructions vitrées

Erweiterter Anwendungsbereich der Ergebnisse von
Feuerwiderstandsprüfungen - Nichttragende Wände -
Teil 4: Verglaste Konstruktionen

This European Standard was approved by CEN on 28 September 2018.

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

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



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

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

EN 15254-4:2018 (E)

Contents	Page
European foreword	3
1 Scope	4
2 Normative references	4
3 Terms and definitions	5
4 Principles	6
4.1 General principles	6
4.2 Use of test evidence	8
4.3 Combination of extended application	9
5 Specific changes to the glazing system	10
5.1 Exchange of the fire resistant glass	10
5.2 Glass shapes	14
5.3 Increase of glass dimensions	14
5.4 Exchange of timber glazing beads	14
5.5 Exchange of metal glazing beads	15
5.6 Exchange of glazing system materials	16
5.7 Bead surface coverings	16
6 Specific changes to the framing system	17
6.1 Exchange of frames	17
6.2 Frame surface coverings	18
7 Changes to the fire resistant glazed element	19
7.1 Increase in dimensions and replication for fire resistant glazed elements with classification EW	19
7.2 Decrease in dimensions for fire resistant glazed elements with classification EW	20
Annex A (informative) Examples for using this standard with regard to requested extended applications based on the reference test and pre-existing test data	21
A.1 Examples for fire resistant glass with E Classification based on Table A.1	21
A.2 Examples for fire resistant glass with EW Classification, based on Table A.2	23
A.3 Examples for fire resistant glass with EI Classification based on Table A.3	25
Annex B (normative) Radiation calculations	27
B.1 Radiation calculations	27
Bibliography	30

European foreword

This document (EN 15254-4:2018) has been prepared by Technical Committee CEN/TC 127 “Fire safety in buildings”, the secretariat of which is held by BSI.

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 June 2019, and conflicting national standards shall be withdrawn at the latest by June 2019.

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 15254-4:2008+A1:2011.

Relevant changes compared to the previous edition EN 15254-4:2008+A1:2011 include:

- a) Replacement of the term “glass product group” by “glass product range”;
- b) Deletion of aspects now covered in the direct field of application (DIAP) of standard EN 1364-1:2015;
- c) Modification of exchange rules for fire resistant glass;
- d) Additional rule for decrease in dimensions for fire resistant glazed elements with classification EW;
- e) Editorial review of the standard.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

EN 15254-4:2018 (E)**1 Scope**

This document provides guidance and, where appropriate, defines procedures for variations of certain parameters and factors associated with the design of fire resistant glazed elements which have been tested in accordance with EN 1364-1:2015, and classified according to EN 13501-2.

Extended application of fire resistant glazed elements is based on test evidence.

This standard only applies to vertically installed fire resistant glazed elements.

This standard does not apply to door sets and openable windows according to EN 1634-1 and does not apply to curtain walling – full configuration or curtain walling – part configuration according to EN 1364-3 and EN 1364-4.

Glass block assemblies and paver units and channel-shaped glass as defined in EN 1051-1 and EN 572-7 are excluded. There is currently insufficient information available to enable rules for extended application to be developed for these products.

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 1279-1, *Glass in building - Insulating glass units - Part 1: Generalities, system description, rules for substitution, tolerances and visual quality*

EN 1363-1, *Fire resistance tests - Part 1: General Requirements*

EN 1363-2, *Fire resistance tests - Part 2: Alternative and additional procedures*

EN 1364-1:2015, *Fire resistance tests for non-loadbearing elements - Part 1: Walls*

EN 1995-1-2, *Eurocode 5: Design of timber structures - Part 1-2: General - Structural fire design*

EN 13501-1, *Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests*

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

EN 15269-2, *Extended application of test results for fire resistance and/or smoke control for door, shutter and openable window assemblies, including their elements of building hardware - Part 2: Fire resistance of hinged and pivoted steel doorsets*

EN 15269-3, *Extended application of test results for fire resistance and/or smoke control for door, shutter and openable window assemblies, including their elements of building hardware - Part 3: Fire resistance of hinged and pivoted timber doorsets and openable timber framed windows*

EN 15269-5, *Extended application of test results for fire resistance and/or smoke control for door, shutter and openable window assemblies, including their elements of building hardware - Part 5: Fire resistance of hinged and pivoted, metal framed, glazed doorsets and openable windows*

EN 15725, *Extended application reports on the fire performance of construction products and building elements*

EN ISO 12543-1, *Glass in building - Laminated glass and laminated safety glass - Part 1: Definitions and description of component parts (ISO 12543-1)*

EN ISO 13943, *Fire safety - Vocabulary (ISO 13943)*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN