STN

Rozšírená aplikácia výsledkov skúšok požiarnej odolnosti Nenosné podhľady Časť 7: Konštrukcie z kovových sendvičových panelov

STN EN 15254-7

92 0220

Extended application of results from fire resistance tests - Non-loadbearing ceilings - Part 7: Metal sandwich panel construction

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. 10/18

Obsahuje: EN 15254-7:2018

Oznámením tejto normy sa ruší STN EN 15254-7 (92 0220) z novembra 2012

EUROPEAN STANDARD

EN 15254-7

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2018

ICS 13.220.50; 91.060.30

Supersedes EN 15254-7:2012

English Version

Extended application of results from fire resistance tests -Non-loadbearing ceilings - Part 7: Metal sandwich panel construction

Application étendue des résultats d'essais de résistance au feu - Plafonds non porteurs - Partie 7 : Panneaux sandwiches métalliques pour la construction

Erweiterter Anwendungsbereich der Ergebnisse von Feuerwiderstandsprüfungen - Nichttragende Unterdecken - Teil 7: Sandwichelemente in Metallbauweise

This European Standard was approved by CEN on 8 January 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

Cont	tents	Page
European foreword		
1	Scope	4
2	Normative references	4
3	Terms, definitions, symbols and abbreviations	
3.1	Terms and definitions	
3.2	Symbols and abbreviations	
4	Establishing the field of extended application	6
4.1	General	6
4.2	Assumptions in the extended application	7
5	Rules for extended applications of the tested product/construction	7
5.1	General	7
5.2	Variations in the materials of the product	
5.2.1 5.2.2	GeneralVariations in the metal sheets	
5.2.3	Variations in the adhesive	
5.2.4		
5.3	Variations in the construction	
5.3.1	Variations in span length	
5.3.2	Variations in the panel thickness	13
5.3.3	Variations in the longitudinal joint construction	
5.3.4		
5.3.5	Length and width of ceiling construction	
5.4 5.5	Interaction between the factor influencesSupport structure	
5.6	Heating conditions	
	· ·	
6 6.1	Calculation methods and additional measurements	
6.1.1	Calculation methodsGeneral	
6.1.2		
6.2	Additional measurements to be carried out in the reference test	
7	Report of the extended application analysis	
	ex A (informative) Typical behaviour of a sandwich panel ceiling when exposed to fire	
		; 17
Anne	x B (informative) Typical examples of sandwich panel ceiling end fixings to support structure	18
Anne	ex C (normative) Rules and calculation methods for extending the span length of sandwich panel ceilings	20
C.1	General	20
C.2	Calculation of allowable span length	20
C.3	Calculation of catenary force	
	ography	23

European foreword

This document (EN 15254-7:2018) 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 October 2018, and conflicting national standards shall be withdrawn at the latest by October 2018.

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 15254-7:2012.

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

This standard is currently composed of the following parts:

- EN 15254-2, Extended application of results from fire resistance tests Non-loadbearing walls Part 2: Masonry and Gypsum Blocks
- EN 15254-4, Extended application of results from fire resistance tests Non-loadbearing walls Part 4: Glazed constructions
- EN 15254-5, Extended application of results from fire resistance tests Non-loadbearing walls Part 5: Metal sandwich panel construction
- EN 15254-6, Extended application of results from fire resistance tests Non-loadbearing walls Part
 6: Curtain walling
- EN 15254-7, Extended application of results from fire resistance tests Non-loadbearing walls Part 7: Non-load bearing sandwich panels Ceilings

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.

1 Scope

This document defines rules for extended applications, provides guidance, and, where appropriate, specifies procedures, for variations of certain parameters and factors associated with the design of internal non-loadbearing ceilings constructed of metal faced sandwich panels that have been tested in accordance with EN 1364-2, which could generate a classification in accordance with EN 13501-2.

This document applies to self-supporting, double skin metal faced sandwich panels, which have an insulating core bonded to both facings as defined in EN 14509.

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 1363-1, Fire resistance tests — Part 1: General Requirements

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

EN 1364-2, Fire resistance tests for non-loadbearing elements — Part 2: Ceilings

EN 1993-1-2, Eurocode 3: Design of steel structures — Part 1-2: General rules — Structural fire design

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

EN 14509, Self-supporting double skin metal faced insulating panels — Factory made products — Specifications

EN 15725:2010, Extended application reports on the fire performance of construction products and building elements

EN ISO 13943, Fire Safety — Vocabulary (ISO 13943)

koniec náhľadu – text ďalej pokračuje v platenej verzii STN