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

Erweiterter Anwendungsbereich der Ergebnisse von Feuerwiderstandsprüfungen -
Nichttragende Wände - Teil 5: Sandwichelemente in Metallbauweise

Application étendue des résultats d'essais de résistance au feu - Murs non porteurs -
Partie 5 : Panneaux sandwichs métalliques pour la construction

Ta slovenski standard je istoveten z: EN 15254-5:2026

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13.220.50	Požarna odpornost gradbenih materialov in elementov	Fire-resistance of building materials and elements
91.060.10	Stene. Predelne stene. Fasade	Walls. Partitions. Facades

SIST EN 15254-5:2026

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Sample Document

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 15254-5

July 2026

ICS 13.220.50; 91.060.10

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English Version

**Extended application of results from fire resistance tests -
Non-loadbearing walls - Part 5: Metal sandwich panel
construction**

Application étendue des résultats d'essais de
résistance au feu - Murs non porteurs - Partie 5 :
Panneaux sandwichs métalliques pour la construction

Erweiterter Anwendungsbereich der Ergebnisse von
Feuerwiderstandsprüfungen - Nichttragende Wände -
Teil 5: Sandwichelemente in Metallbauweise

This European Standard was approved by CEN on 15 June 2026.

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European foreword

This document (EN 15254-5:2026) 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of an identical text or by endorsement, at the latest by January 2027, and conflicting national standards shall be withdrawn at the latest by January 2027.

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 15254-5:2018.

The EN 15254 series, under the general title, *Extended application of results from fire resistance tests — Non-loadbearing walls*, consists of the following parts:

- *Part 2: Masonry and gypsum blocks;*
- *Part 3: Lightweight partitions;*
- *Part 4: Glazed constructions;*
- *Part 5: Metal sandwich panel construction;*
- *Part 6: Curtain walling;*
- *Part 7: Metal sandwich panel construction.*

This document has been prepared under a standardization request addressed to CEN by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

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1 Scope

This document defines rules for extended applications, provides guidance, and, where appropriate, defines procedures, for variations of certain parameters and factors associated with the design of internal and external non-loadbearing walls constructed of metal sandwich panels and that have been tested in accordance with EN 1364-1, which could generate a classification in accordance with EN 13501-2.

This document applies for double skin metal faced sandwich panels having an insulating core bonded to both facings as defined in EN 14509 not stabilizing a whole building or parts of it.

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

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

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

EN 13820, *Thermal insulating materials for building applications — Determination of organic content*

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

EN 14509:2013, *Self-supporting double skin metal faced insulating panels — Factory made products - Specifications*

EN 15725:2023, *Extended application on the fire performance of construction products and building elements: Principle of EXAP standards and EXAP reports*

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

3 Terms, definitions, symbols and abbreviations

3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 14509, EN 15725, EN 1364-1, EN 1363-1 and EN ISO 13943 the following apply.

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

— ISO Online browsing platform: available at <https://www.iso.org/obp>

— IEC Electropedia: available at <https://www.electropedia.org/>

3.1.1

direct field of application

outcome of a process (involving the application of defined rules) whereby a test result is deemed to be equally valid for variations in one or more of the product properties and/or intended end-use applications

3.1.2

extended field of application

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

3.1.3

factor

variation that can be applied to a parameter

EXAMPLE *A change in the core thickness.*

3.1.4

factor influence

potential cause of a change in the fire resistance when the factor is changed

EXAMPLE Increase in fire resistance as result of an increase of the thickness of the core.

3.1.5

fastening

fixing

component that fastens the panels to a support structure or to the test frame

3.1.6

fixing system

system consisting of fastenings and possible other means to fasten the panels to a support structure or to the test frame

3.1.7

height

<assembly> height of the wall in the reference test or in the end-use application for horizontally or vertically installed wall panels

3.1.8

length

<assembly> length of the wall in the reference test or in the end-use application for horizontally or vertically installed wall panels

3.1.9

reference test

fire resistance test in accordance with EN 1363-1 and EN 1364-1, and where applicable EN 1363-2, on which the extended application is based and the results of which are used as the main source of data for the extended application

3.1.10

stitching

component for fixing panels to panels in the longitudinal joint