

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

## EESTI STANDARDI EESSÕNA

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See Eesti standard EVS-EN 15254-7:2012 sisaldab Euroopa standardi EN 15254-7:2012 ingliskeelset teksti.	This Estonian standard EVS-EN 15254-7:2012 consists of the English text of the European standard EN 15254-7:2012.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 02.06.2012.	Date of Availability of the European standard is 02.06.2012.
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ICS 13.220.50, 91.060.30

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ICS 13.220.50; 91.060.30

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 sandwichs 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 4 May 2012.

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## Foreword

This document (EN 15254-7:2012) 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of an identical text or by endorsement, at the latest by December 2012, and conflicting national standards shall be withdrawn at the latest by December 2012.

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

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

EN 15254 is divided into 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*
- prEN 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 ceilings — Part 7: Metal sandwich panel construction*, [the present document]

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## 1 Scope

This European Standard 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 sandwich panels that have been tested in accordance with EN 1364-2.

This European Standard applies to self-supporting, double skin metal faced sandwich panels which have an insulating core bonded to both facings.

## 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 1363-1:2012, *Fire resistance tests — Part 1: General requirements*

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

EN 1364-2:1999, *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 14509:2006, *Self-supporting double skin metal faced insulating panels — Factory made products — Specifications*

## 3 Terms, definitions, symbols and abbreviations

### 3.1 Terms and definitions

For the purpose of this document, the terms and definitions given in EN 14509:2006, EN 1364-2:1999, EN 1363-1:2012 and the following apply.

#### 3.1.1

##### **direct field of application of test results**

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 of test results**

outcome of a process (involving the application of defined rules that may 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**

one of the possible variations that may be applied to a parameter