

Fire classification of construction products and building elements - Part 5: Classification using data from external fire exposure to roofs tests KONSOLIDEERITUD TEKST

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 13501-5:2006+A1:2009 sisaldab Euroopa standardi EN 13501-5:2005+A1:2009 ingliskeelset teksti.

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English Version

**Fire classification of construction products and building elements
- Part 5: Classification using data from external fire exposure to
roofs tests**

Classement au feu des produits et éléments de
construction - Partie 5: Classement utilisant des données
d'essais au feu des toitures exposées à un feu extérieur

Klassifizierung von Bauprodukten und Bauarten zu ihrem
Brandverhalten - Teil 5: Klassifizierung mit den
Ergebnissen aus Prüfungen von Bedachungen bei
Beanspruchung durch Feuer von außen

This European Standard was approved by CEN on 22 September 2005 and includes Corrigendum 1 issued by CEN on 10 September 2008 and Amendment 1 approved by CEN on 17 July 2009.

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 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 Management Centre has the same status as the official versions.

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Foreword

This document (EN 13501-5:2005+A1:2009) 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of an identical text or by endorsement, at the latest by March 2010, and conflicting national standards shall be withdrawn at the latest by March 2010.

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 includes Amendment 1, approved by CEN on 2009-07-17 and Corrigendum 1, issued by CEN on 2008-09-10.

This document supersedes EN 13501-5:2005.

The start and finish of text introduced or altered by amendment is indicated in the text by tags **A1** **A1**.

The modifications of the related CEN Corrigendum have been implemented at the appropriate places in the text and are indicated by the tags **AC** **AC**.

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of the Construction Products Directive.

A1 Amendment 1 provides for the use of extended application reports in the classification procedure. **A1**

CEN, CENELEC and EOTA committees preparing technical specifications which contain performance requirements against external fire exposure of roofs should make reference to the classification given in this European Standard and not refer directly to any specific fire test method.

EN 13501 consists of the following parts:

Part 1: Classification using data from reaction to fire tests,

Part 2: Classification using data from fire resistance tests, excluding ventilation services,

Part 3: Classification using data from fire resistance tests on components of normal building service installations: fire resisting ducts and fire dampers

Part 4: Classification using data from fire resistance tests on components of smoke control systems,

Part 5: Classification using data from external fire exposure to roof tests.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

Introduction

The aim of this European Standard is to define a harmonized procedure for the classification of roofs/roof coverings exposed to external fire. This classification is based on the test methods listed in **A1** Clause 5 and the relevant field of application procedures **A1**.

This European Standard has been prepared in support of the second essential requirement in the EC Construction Products Directive (89/106/EEC) and as detailed in the Interpretative Document Number 2: Safety in case of fire (OJ C62 Vol. 37).

The European Commission has drawn up a list of products which, under specified conditions, may be considered to be Class B_{ROOF} without testing. This information is given in the Commission Decision of 2000-09-06 establishing the list of products belonging to Classes B_{ROOF} (Decision 2000/553/EC).

A1 NOTE Test reports constitute the basis for extended application reports as explained in prEN 15725. **A1**

1 Scope

This European Standard provides the fire performance classification procedures for roofs/roof coverings exposed to external fire based on the four test methods given in [A1] ENV 1187:2002 and the relevant extended application rules [A1].

For the classification of a roof/roof covering, [A1] only those test methods and those application rules need to be [A1] applied for which the corresponding classification is envisaged.

Products are considered in relation to their end use application.

NOTE The distinction between roofs with a steep slope and facades, in terms of the test and classification standard to be applied, may be subject to national regulations.

General information on the four test methods in ENV 1187:2002 is given in Annex A.

2 Normative references

The following referenced documents are indispensable for the application of this European Standard. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ENV 1187:2002, *Test methods for external fire exposure to roofs*

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

[A1] prEN 15725, *Extended application reports on the fire performance of construction products and building elements* [A1]

EN ISO 13943:2000, *Fire safety — Vocabulary (ISO 13943:2000)*

3 Terms and definitions

For the purposes of this European Standard, the terms and definitions given in EN ISO 13943:2000 and the following apply.

3.1

roof

covering and sealing system, including any insulating layers or vapour barriers normally provided together with their supporting elements including attachment (glued, mechanically fastened etc.), and roof lights or other closures for roof apertures that are intended to provide a weatherproof surface

[ENV 1187:2002]

3.2

material

basic single substance or uniformly dispersed mixture of substances (e.g. metal, stone, wood, bitumen, concrete, mineral wool)

[ENV 1187:2002]