Reaction to fire tests for building products -Conditioning procedures and general rules for selection A Sisa preview developed of the state of the of substrates



### **FESTI STANDARDI FESSÕNA**

teate avaldamisel EVS Teatajas.

### **NATIONAL FOREWORD**

Käesolev Eesti standard EVS-EN 13238:2010 sisaldab Euroopa standardi EN 13238:2010 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 31.03.2010 käskkirjaga ja jõustub sellekohase

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 10.02.2010.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 13238:2010 consists of the English text of the European standard EN 13238:2010.

This standard is ratified with the order of Estonian Centre for Standardisation dated 31.03.2010 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

Date of Availability of the European standard text 10.02.2010.

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# EUROPEAN STANDARD NORME EUROPÉENNE

**EUROPÄISCHE NORM** 

EN 13238

February 2010

ICS 13.220.50

Supersedes EN 13238:2001

### **English Version**

# Reaction to fire tests for building products - Conditioning procedures and general rules for selection of substrates

Essais de réaction au feu des produits de construction -Modes opératoires de conditionnement et règles générales de sélection des substrats Prüfungen zum Brandverhalten von Bauprodukten -Konditionierungsverfahren und allgemeine Regeln für die Auswahl von Trägerplatten

This European Standard was approved by CEN on 18 December 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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EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

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### **Foreword**

This document (EN 13238:2010) 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 August 2010, and conflicting national standards shall be withdrawn at the latest by August 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 supersedes EN 13238:2001.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

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, Croatia, Cyprus, Czech Ge orway, 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 Construction Products Directive requires products to be tested in their end use condition which, for the purpose of substrates, could lead to an economically unrealistic large variety of tests to be carried out. This large spectrum has been reduced to a practical number of standard substrates that enables the majority of end use conditions to be represented. Rules for the selection of such substrates are given in this European Standard.

inte. This European Standard is intended for use in conjunction with European Standards covering the reaction to fire test methods for the relevant construction products.

### 1 Scope

This European Standard describes the conditioning procedures for test specimens which will be tested according to the European standards for reaction to fire.

The rules for the selection of substrates for construction products when carrying out reaction to fire tests are also detailed in this European Standard.

This European Standard does not contain requirements for

- the pre-drying of test specimens for the non-combustibility test according EN ISO 1182;
- methods of cleaning (e.g. washing) and other methods for the assessment of durability aspects, which
  are dealt with in the relevant product standards.

### 2 Normative references

The following referenced documents are indispensable for the application 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 312, Particleboards — Specifications

EN 520, Gypsum plasterboards — Definitions, requirements and test methods

EN 636, Plywood — Specifications

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

EN 13823, Reaction to fire tests for building products — Building products excluding floorings exposed to the thermal attack by a single burning item

EN 14306, Thermal insulation products for building equipment and industrial installations — Factory made calcium silicate (CS) products — Specification

EN 14390, Fire test — Large-scale room reference test for surface products

EN ISO 1182, Reaction to fire tests for building products — Non-combustibility test (ISO 1182:2002)

EN ISO 1716, Reaction to fire tests for building products — Determination of the heat of combustion (ISO 1716:2002)

EN ISO 9239-1, Reaction to fire tests for floorings — Part 1: Determination of the burning behaviour using a radiant heat source (ISO 9239-1:2002)

EN ISO 11925-2, Reaction to fire tests — Ignitability of building products subjected to direct impingement of flame – Part 2: Single-flame source test (ISO 11925-2:2002)

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

ISO 390, Products in fibre-reinforced cement — Sampling and inspection

ISO 1887, Textile glass — Determination of combustible-matter content