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

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NSAI
1 Swift Square,
Northwood, Santry
Dublin 9

T +353 1 807 3800
F +353 1 807 3838
E standards@nsai.ie
W NSAI.ie

Sales:
T +353 1 857 6730
F +353 1 857 6729
W standards.ie

Údarás um Chaighdeáin Náisiúnta na hÉireann

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.

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Management Centre: Avenue Marnix 17, B-1000 Brussels

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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of an identical text or by endorsement, at the latest by August 2010, and conflicting national standards shall be withdrawn at the latest by August 2010.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).

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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.

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*

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