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Interested committees:

Title: Draft BS EN 16755 BS Classes of fire-retardant treated wood products in interior and exterior end use applications - Reaction to fire performance.

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Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

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Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/ Figure/Table/Note	Type of comment	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	

English Version

Classes of fire-retardant treated wood products in interior and exterior end use applications - Reaction to fire performance

Classement des produits à base de bois ignifugés pour
utilisation finale en intérieur et en extérieur -
Performance de réaction au feu

Klassen der mit Feuerschutzmitteln behandelten
Holzprodukte für Anwendungen im Innen- und
Außenbereich - Verhalten bei Brandeinwirkung

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 175.

If this draft becomes a European Standard, 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.

This draft European Standard was established by CEN 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-CENELEC Management Centre has the same status as the official versions.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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European foreword

This document (prEN 16755:2025) has been prepared by Technical Committee CEN/TC 175 “Round and sawn timber”, the secretariat of which is held by AFNOR.

This document is currently submitted to the CEN Enquiry.

This document will supersede [\[1\]](#).

In comparison with the previous edition, the following technical modifications have been made:

- Scope and title have been updated.
- The artificial accelerated weathering methods have been reduced to the Artificial weathering method (called Method B in the previous edition).
- Fire testing according to [\[2\]](#) has been excluded.
- New requirements on the number of SBI tests have been included.
- The classification refers to use classes 1, 2 and 3 as defined in [\[3\]](#) instead of service classes 1, 2 and 3 as defined in [\[4\]](#).
- References to Service life have been removed.
- Wood-based panels have been included (Wood-based panels for construction are described in [\[5\]](#)).

Introduction

Fire-retardant treatments can considerably improve the reaction to fire properties of wood products and these can result in wood products having the highest fire performance characteristics achievable with any combustible product. However, the reaction to fire performance can be reduced by exposure to wet and/or humid conditions [\[6\]](#) and the ability of the treated products to continue to perform even when exposed to these conditions needs to be demonstrated.

Both wood and wood-based products treated with or incorporating fire retardants are covered. Fire-retardant coatings and fire-retardant products with and without a coating, whether or not a fire-retardant coating, are included.

1 Scope

This document describes test methods and methods for classification of wood and wood-based products for which a stage in the production process results in an improvement of the reaction-to-fire classification in accordance with [7] for use in interior and exterior situations (use classes 1, 2, and 3 as defined in [8]).

NOTE 1 The classes of this document are not performance classes and do not give guidance for how long the reaction to fire classification of wood or wood-based product will last.

This document applies to

- wood and wood-based products (specific wood species, wood treated with preservatives and modified wood, for example thermally and chemically modified wood) that have been treated with fire-retardant chemical(s) applied either by a penetrating process or by a superficial process, such as with a film forming fire-retardant coating.
- wood-based products that incorporate fire retardant chemical(s) as part of the production process.

This document also covers fire-retardant wood and wood-based products that have a non-fire-retardant coating.

Mechanical properties, aesthetic properties, dimensional stability properties, service life and biological durability of fire-retardant wood and wood-based products are not covered by this document.

NOTE 2 This document is relevant for, but not limited to, products covered by these products standards: [5], [9], [10], [11] and [12].

NOTE 3 EAD 350865-00-1106 [13] covers fire retardant products (coating) applied in situ.

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 927-3, *Paints and varnishes - Coating materials and coating systems for exterior wood - Part 3: Natural weathering test*

EN 13238, *Reaction to fire tests for building products - Conditioning procedures and general rules for selection of substrates*

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*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1 Classes

3.1.1

INT1

situations in which the wood or wood-based product is inside a construction, not exposed to the weather and wetting

[SOURCE: [8] Use Class 1]

3.1.2

INT2

situations in which the wood or wood-based product is under cover and not exposed to the weather (particularly rain and driven rain) but where occasional, but not persistent, wetting can occur

[SOURCE: [8] Use Class 2]

3.1.3

EXT

situations in which the wood or wood-based product is above ground and exposed to the weather (particularly rain)

[SOURCE: [8] Use class 3]

3.2

artificial weathering

laboratory weathering according to the method for accelerated weather exposure described in Annex B

3.3

natural weathering

field weathering according to the method for weather exposure described in EN 927-3

4 Symbols and abbreviations

The recommended, non-obligatory symbols for Classes INT1, INT2 and EXT are the following ones:



Figure 1 — Recommended, non-obligatory symbols for classes

5 Requirements

5.1 Wood and wood-based products

The wood material and the treatment/treatments shall be declared by the manufacturer of the final wood product. This encompasses i) the type of material, e.g. solid wood or OSB, ii) in case of wood-based panels their class, e.g. OSB/4, iii) the wood species and ii) the treatment/treatments. The latter entails a specification of the type of treatment by chemical or other means. The term chemical means refers to treatments with fire retardants chemicals and non-fire-retardant chemicals, e.g. fire retardant impregnants, fire retardant additives, fire retardant coatings, ordinary coatings, wood preservatives, wood modification agents or water repellent agents. The term other means refers to treatments by thermal wood modification or wood densification. In addition the specification of the wood material and the treatment/treatments, the trade name of the wood product, if applicable, shall be declared.

The actual retention of wood products impregnated with fire retardants is expressed in kg active ingredient/m³ wood. In case of wood based panels, the addition of fire retardants is expressed in kg active ingredient/m³ panel. The application rate and the solid content of fire retardant coatings and