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Durability of wood and wood-based products - Guidance on performance

Táto norma obsahuje anglickú verziu európskej normy. This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 04/23

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English Version

Durability of wood and wood-based products - Guidance on performance

Durabilité du bois et des matériaux à base de bois -Guide pour déterminer la performance Dauerhaftigkeit von Holz und Holzprodukten -Leitfaden zur Bestimmung der Leistungsfähigkeit

This European Standard was approved by CEN on 2 January 2023.

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-CENELEC 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-CENELEC 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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EN 460:2023 (E)

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European foreword

This document (EN 460:2023) has been prepared by Technical Committee CEN/TC 38 "Durability of wood and wood-based products", the secretariat of which is held by SIS.

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of an identical text or by endorsement, at the latest by August 2023, and conflicting national standards shall be withdrawn at the latest by August 2023.

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

This document supersedes EN 460:1994.

EN 460:2023 includes the following significant technical changes with respect to EN 460:1994:

- title change;
- the introduction of a decision process for performance specification of wood and wood-based products based on (i) materials and exposure, (ii) presentation of design life and (iii) articulation of consequence of failure.

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

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website.

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

EN 460:2023 (E)

Introduction

There is increasing need to understand the service life of wood products, especially in construction. Service life in the Construction Products Regulation (Regulation (EU) No 305/2011 (CPR) and its equivalent in non-EU countries) can be understood as performance within an economically acceptable period, under typical exposure and maintenance scenarios.

This document is concerned with the service life of wood materials and wood products, especially in construction. The purpose of this document is to provide guidance to help the user to select a wood or wood-based material based of appropriate biological durability based on information about the end use environment and the target service life.

For the service life of structures, refer to EN 1990 and EN 1995-1-1.

1 Scope

This document gives guidance on the selection of wood and wood-based products for use in situations where they can be subject to degradation by fungi, wood destroying insects or marine borers. This guidance includes information on factors that can influence the service life of a wood or wood-based product when considering biological degradation. In many end uses, design, workmanship and maintenance will also influence the service life of the wood or wood-based product.

This document is a step toward the evaluation of the service life of a wood product.

This document does not consider:

- 1) the durability characteristics of the glue used in wood-based products;
- 2) the aesthetic function of wood products (discoloration, surface weathering, mould).

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 1001-2, Durability of wood and wood based products — Terminology — Part 2: Vocabulary

koniec náhľadu – text ďalej pokračuje v platenej verzii STN