PD CEN/TR 17810:2022

BSI Standards Publication

Durability of wood and wood-based products — Interpretation document for standards related to efficacy requirements and specifications of wood preservatives

Documents
Document Sharing Hub

Full document details: PD CEN/TR 17810:2022

National foreword

This Published Document is the UK implementation of CEN/TR 17810:2022.

The UK participation in its preparation was entrusted to Technical Committee B/515, Wood preservation.

A list of organizations represented on this committee can be obtained on request to its committee manager.

Contractual and legal considerations

This publication has been prepared in good faith, however no representation, warranty, assurance or undertaking (express or implied) is or will be made, and no responsibility or liability is or will be accepted by BSI in relation to the adequacy, accuracy, completeness or reasonableness of this publication. All and any such responsibility and liability is expressly disclaimed to the full extent permitted by the law.

This publication is provided as is, and is to be used at the recipient's own risk.

The recipient is advised to consider seeking professional guidance with respect to its use of this publication.

This publication is not intended to constitute a contract. Users are responsible for its correct application.

This publication is not to be regarded as a British Standard.

© The British Standards Institution 2022
Published by BSI Standards Limited 2022

ISBN 978 0 539 17497 7

ICS 79.060.01; 79.080

Compliance with a Published Document cannot confer immunity from legal obligations.

This Published Document was published under the authority of the Standards Policy and Strategy Committee on 30 June 2022.

Amendments/corrigenda issued since publication

Date	Text affected

Documents
Document Sharing Hub

Full document details: PD CEN/TR 17810:2022

TECHNICAL REPORT

RAPPORT TECHNIQUE

TECHNISCHER BERICHT

CEN/TR 17810

April 2022

ICS 79.060.01; 79.080

English Version

Durability of wood and wood-based products - Interpretation document for standards related to efficacy requirements and specifications of wood preservatives

Durabilité du bois et des produits dérivés - Document d'interprétation des normes relatives aux exigences d'efficacité et aux spécifications des produits de préservation du bois

Dauerhaftigkeit von Holz und Holzprodukten - Anwendungsdokument für Normen zu Anforderungen an die Wirksamkeit und Eigenschaften von Holzschutzmitteln

This Technical Report was approved by CEN on 27 March 2022. It has been drawn up by the Technical Committee CEN/TC 38.

CEN members are the national standards bodies of 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, Turkey and United Kingdom.

EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

© 2022 CEN All rights of exploitation in any form and by any means reserved worldwide for CEN national Members.

Ref. No. CEN/TR 17810:2022 E

Documents
Document Sharing Hub

Full document details: PD CEN/TR 17810:2022

Contents

Page

European foreword ... 3
Introduction ... 4
1 Scope ... 5
2 Normative references ... 5
3 Terms and definitions ... 5
4 General principles ... 5
5 Selection of wood substrates for the products under test ... 6
5.1 Testing against decay fungi ... 6
5.2 Testing against termites ... 6
5.3 Testing against beetle larvae ... 6
5.4 Testing against marine borers ... 6
6 Treating the test specimens with the product under test ... 6
7 Artificial ageing of treated wood ... 7
8 Wood attacking organisms ... 7
8.1 General ... 7
8.2 Fungi ... 8
8.2.1 General ... 8
8.2.2 Basidiomycetes ... 8
8.2.3 Soft rot ... 8
8.2.4 Blue-stain fungi ... 8
8.2.5 Sapstain and mould fungi ... 9
8.3 Insects ... 9
8.3.1 Coleoptera ... 9
8.3.2 Termites ... 10
9 Use of CEN standards ... 11
9.1 Preventative wood preservatives ... 11
9.2 Curative wood preservatives ... 11
9.3 Validity of test results from former standards after their revision ... 12
Annex A (informative) Decision-making schemes for the choice of the test ... 13
A.1 General ... 13
A.2 Testing the efficacy of preventative products against basidiomycetes fungi ... 13
A.3 Testing the efficacy of preventative products against wood-boring beetles ... 14
A.4 Testing the efficacy of curative products against wood boring beetles ... 15
A.5 Testing the efficacy of wood preservatives against subterranean termites ... 16
Bibliography ... 17

Documents
Document Sharing Hub
Full document details: PD CEN/TR 17810:2022

European foreword

This document (CEN/TR 17810:2022) has been prepared by Technical Committee CEN/TC 38 "Durability of wood and wood-based products", the secretariat of which is held by AFNOR.

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.

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.

Documents
Document Sharing Hub
Full document details: PD CEN/TR 17810:2022

Introduction

CEN standards are regarded as the preferred reference for the assessment of the efficacy of wood preservatives for the authorization of biocidal products in the European market, in compliance with the Biocidal Products Regulation (528/2012).

Efficacy requirements are specified in EN 599-1 (preventive action) and EN 14128 (curative action).

This document aims to provide information on the technical and scientific background of the test methods listed in the CEN standards, in particular those published by CEN/TC 38, as well as to outline the tools available to support efficacy claims for wood preservatives.

Documents
Document Sharing Hub
Full document details: PD CEN/TR 17810:2022

1 Scope

This document is intended to facilitate the interpretation and use of the European Standards where the testing and specification of wood preservative products are described. It aims to assist users (manufacturers, specifiers, authorities, etc.) to correlate the choice of selected test methods, wood substrates and biological agents with the efficacy requirements of wood preservatives based on their claimed target organisms and end use. This document is a source of supplementary information to the relevant standards and cannot be used as a standalone document.

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 599-1:2009+A1:2013, *Durability of wood and wood-based products - Efficacy of preventive wood preservatives as determined by biological tests - Part 1: Specification according to use class*

EN 1001 (all parts), *Durability of wood and wood-based products - Terminology*

EN 14128, *Durability of wood and wood-based products - Efficacy criteria for curative wood preservatives as determined by biological tests*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 599-1, EN 1001 (all parts) and EN 14128 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— IEC Electropedia: available at https://www.electropedia.org/

— ISO Online browsing platform: available at https://www.iso.org/obp

4 General principles

The test methods and efficacy criteria discussed in this document characterize the ability of a preservative to protect wood from attacking organisms. The techniques adopted in each of the test methods are not intended to reproduce any particular industrial wood treatment, but to obtain satisfactory penetration and distribution of the preservative in the test specimens. It should also be emphasized that the test conditions are the most favourable for wood decay and, in the case of laboratory tests, the decay organisms used were selected as representative of a wider variety of organisms that can affect the wood in use. In general, the test methods make it possible to determine the preventive or the curative action of a preservative against wood destroying organisms, e.g. insects, fungi and marine borers. In the case of preventive treatments, the test requirements for a preservative are specified in EN 599-1 and depend on the use class as defined in EN 335. In the case of curative treatments, the test requirements for a preservative are specified in EN 14128.

Documents
Document Sharing Hub
Full document details: PD CEN/TR 17810:2022