

English Version

Wood preservatives - Determination of the relative protective effectiveness of a wood preservative for use under a coating and exposed out-of-ground contact - Field test: L-joint method

Produits de préservation du bois - Détermination de l'efficacité protectrice d'un produit de préservation du bois pour emploi sous un revêtement et hors de contact avec le sol - Essai de champ: méthode avec un assemblage en L

Holzschutzmittel - Bestimmung der relativen Wirksamkeit eines Holzschutzmittels zur Anwendung unter einem Anstrich und ohne Erdkontakt - Freilandprüfung: L-Verbindungsmethode

This European Standard was approved by CEN on 30 August 2014.

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Foreword

This document (EN 330:2014) has been prepared by Technical Committee CEN/TC 38 “Durability of wood and wood-based products”, the secretariat of which is held by AFNOR.

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of an identical text or by endorsement, at the latest by May 2015 and conflicting national standards shall be withdrawn at the latest by May 2015.

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 330:1993.

Compared to EN 330:1993 the following changes have been made:

- The scope of the standard clarifies that the effectiveness is evaluated to a reference material;
- The grading system for the assessment of decay has been modified in Table 1;
- Modifications have been made to the duration (Clause 14) and validity (Clause 15) of the test;
- In Annex B information has been added that the reference wood preservatives stated in the document may only be used for research purposes in accordance with the Biocidal Products Regulations (Regulation (EU) No. 528/2012);
- An informative Annex D covering environmental, health and safety precautions has been added.

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 Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Introduction

This European Standard describes a method of test for wood preservatives that are intended for use under a surface coating in timber to be exposed to the weather and out of contact with the ground (Use Class 3, EN 335).

The main objective of the test is to evaluate the relative effectiveness of the preservative applied to jointed samples of *Pinus sylvestris* L sapwood by a treatment technique relevant to its intended practical use.

Effectiveness is evaluated relative to a reference material.

The method is concerned with protection against attack by the complete sequence of microorganisms occurring under natural conditions, including those basidiomycete fungi that eventually cause decay. It takes into account the effects of weathering (light, rain and heat) on the effectiveness of a wood preservative under a coating.

The method does not accelerate the rate of decay (see Note), however the coating failure occurs immediately at the test start, that is even sooner than in badly designed and poorly maintained joinery exposed under the same conditions.

The method may be used, after modification, for other purposes including evaluating the effectiveness of a test preservative as follows:

- in protecting timbers of a different wood species;
- under different types of coating.

Since the L-joints are exposed to natural outdoor conditions during the test period, variations in test conditions from one location to another have to be expected. Differences in climate, especially rainfall, will influence the general rate of development of decay fungi. However, by comparing the results obtained for the test preservative with those obtained with the reference material and with those for untreated, control L-joints, the relative protective effectiveness of the preservative under test can be evaluated.

NOTE The coating is intended to make the technique relevant to the end use – albeit the test pieces are badly maintained and designed in order to accelerate the test.

1 Scope

This European Standard specifies a method for determining the relative protective effectiveness against fungal decay of a wood preservative applied to wood in combination with a subsequent surface coating, exposed to the weather and out of contact with the ground. The effectiveness is evaluated relative to a reference wood preservative.

The method is applicable to the testing of commercial or experimental preservatives applied to non-durable timbers by methods appropriate to commercial practice and subsequently coated with a specified coating system. The method is applicable to products and processes used individually or in combination to prevent the development of decay in the wood.

The method is also appropriate for factory finishing systems which include wood protection and wood preservation claims.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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*

EN 335, *Durability of wood and wood-based products - Use classes: definitions, application to solid wood and wood-based products*

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