



SLOVENSKI STANDARD

oSIST prEN 84:2018

01-december-2018

Zaščitna sredstva za les - Pospešeno staranje zaščenega lesa pred biološkim preskušanjem - Postopek izpiranja

Wood preservatives - Accelerated ageing of treated wood prior to biological testing - Leaching procedure

Holzschutzmittel - Beschleunigte Alterung von behandeltem Holz vor biologischen Prüfungen - Auswaschbeanspruchung

Produits de préservation du bois - Epreuves de vieillissement accéléré des bois traités avant essais biologiques - Epreuve de délavage

Ta slovenski standard je istoveten z: prEN 84

ICS:

71.100.50 Kemikalije za zaščito lesa Wood-protecting chemicals

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

DRAFT
prEN 84

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ICS 71.100.50

Will supersede EN 84:1997

English Version

**Wood preservatives - Accelerated ageing of treated wood
prior to biological testing - Leaching procedure**

Produits de préservation du bois - Epreuves de
vieillesse accélérée des bois traités avant essais
biologiques - Epreuve de délavage

Holzschutzmittel - Beschleunigte Alterung von
behandeltem Holz vor biologischen Prüfungen -
Auswaschbeanspruchung

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 38.

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.

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

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European foreword

This document (prEN 84:2018) 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 document is currently submitted to the CEN Enquiry.

This document will supersede EN 84: 1996.

Compared to EN84: 1996 the following modifications have been made:

- 1) a statement regarding the maximum period of time permitted between completion of the leaching procedure and the start of the biological test;
- 2) that this period of time shall be stated in the biological test report.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 84:2020

<https://standards.iteh.ai/catalog/standards/sist/aecdb741-bbb5-409c-8974-caa9c962201c/sist-en-84-2020>

1 Scope

This document specifies a method for the leaching of test specimens of wood which are used in the testing of the biological efficacy of wood preservatives.

This standard is applicable to:

- a) the pre-conditioning of test specimens prior to their being subjected to a biological test ; or
- b) assessment of loss of effectiveness by comparing the performance in a biological test of treated test specimens subjected to this procedure with others that have not undergone any leaching procedure.

NOTE The method may also be used for pre-conditioning of wood-based panel products which may or may not have received preservative treatment.

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 ISO 3696, *Water for analytical laboratory use — Specification and test methods (ISO 3696)*

3 Terms and definitions

No terms and definitions are listed in this document.

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

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

4 Principle

Impregnation with water under vacuum, followed by immersion in water for a specified period, of test specimens that have been prepared for biological testing of the efficacy of a wood preservative against fungi or insects, using the appropriate standard methods.

5 Material and apparatus

5.1 Material

Water, complying with grade 3 of EN ISO 3696.

5.2 Apparatus

5.2.1 Conditioning chamber controlled at a temperature of $(20 \pm 2) ^\circ\text{C}$ and $(65 \pm 5) \%$ relative humidity for conditioning the test specimens.

5.2.2 Test vessels of material that does not react with the preservative under test:

- either of glass, especially for the organic solvent products;
- or of plastic materials for products that are likely to attack glass.

The capacity of the test vessels shall be such that they can contain, in addition to the test specimens, the volume of water specified in 7.1.2.

5.2.3 Vacuum desiccator, fitted with a stopcock.

5.2.4 Vacuum pump fitted with a pressure gauge and capable of maintaining a pressure of 4 kPa.

5.2.5 Weights, of a material which does not react with the treated blocks, water or the test vessel, for ballasting the test specimens.

5.2.6 Ordinary laboratory equipment.

6 Test specimen

6.1 Definition and origin

The test specimens and their preparation are defined in the standards concerning the biological tests to which they are intended to be subjected.

The leaching procedure shall be carried out at the end of the conditioning period that follows the treatment of the test specimens described in the relevant biological test standard.

6.2 Number of test specimens

The number of test specimens to be leached shall be as required by the standard describing the relevant biological tests, bearing in mind that the leaching procedure shall be applied both to treated test specimens that are subjected to biological agents and to control test specimens. The control test specimens are of the following kinds:

- treated test specimens that are not be subjected to attack by biological agents after leaching. These will serve as controls for changes in mass in those tests in which this factor is taken into consideration. One set of these control test specimens shall be provided for each concentration;
- untreated control test specimens which, after leaching, are subjected to the biological tests to check any variation in the behaviour of untreated wood. One set of these control test specimens shall be provided for the whole of one test;
- control test specimens of timber treated with solvent or diluent if necessary.

7 Procedure

7.1 Leaching

7.1.1 Impregnation with water

Place the test specimens in the test vessels (see 5.2.2) so that the test specimens of different species of wood and with different concentrations of a wood preservative are in separate test vessels. Ballast them with weights (see 5.2.5) to prevent them from floating. Pour sufficient water (see 5.1) into the test vessels to cover the groups of test specimens and to ensure that the test specimens remain covered throughout the impregnation.

Place the test vessels in the vacuum desiccator (see 5.2.3); establish a vacuum corresponding to a pressure of 4 kPa and maintain this for 20 min before release.

Leave the test specimens in the vessels for 2h.

Empty the water from the vessels.