



BSI Standards Publication

**Durability of wood and wood-based products —
Accelerated ageing of treated wood prior to
biological testing — Leaching procedure**

National foreword

This British Standard is the UK implementation of EN 84:2020. It supersedes BS EN 84:1997, which is withdrawn.

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.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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English Version

Durability of wood and wood-based products - Accelerated ageing of treated wood prior to biological testing - Leaching procedure

Durabilité du bois et des produits dérivés - Épreuves de vieillissement accéléré des bois traités avant essais biologiques - Épreuve de délavage

Dauerhaftigkeit von Holz und Holzprodukten - Beschleunigte Alterung von behandeltem Holz vor biologischen Prüfungen - Auswaschbeanspruchung

This European Standard was approved by CEN on 24 February 2020.

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

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European foreword

This document (EN 84:2020) 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of an identical text or by endorsement, at the latest by February 2021, and conflicting national standards shall be withdrawn at the latest by February 2021.

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 84:1997. Data using the 1997 edition of EN 84 may still be used.

Compared to EN 84:1997 the following modifications have been made:

- change of title;
- inclusion of untreated wood, modified wood and wood-based panel products in the Scope;
- addition of Clause 3 Terms and definitions, and renumbering of subsequent clauses and cross-references;
- inclusion of a statement regarding the maximum period of time permitted between the completion of the leaching procedure and the start of the biological test;
- inclusion of a requirement that this period of time be stated in the biological test report.

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, Turkey and the United Kingdom.

1 Scope

This document specifies a method for leaching, applicable to test specimens of wood or wood-based products which are subsequently subjected to biological tests.

This document 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 can also be used for pre-conditioning of untreated wood, modified wood and wood-based panel products, whether they received preservative treatment or not.

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:

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

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 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 ± 2) °C and (65 ± 5) % relative humidity for conditioning the test specimens.

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

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