



BSI Standards Publication

Durability of wood and wood-based products — Determination of treatability of timber species to be impregnated with wood preservatives — Laboratory method

National foreword

This British Standard is the UK implementation of EN 14734:2022, incorporating corrigendum January 2023. It supersedes PD CEN/TR 14734:2004, which is withdrawn.

The start and finish of text introduced or altered by corrigendum is indicated in the text by tags. Text altered by CEN corrigendum January 2023 is indicated in the text by AC AC.

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.

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Amendments/corrigenda issued since publication

Date	Text affected
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English Version

**Durability of wood and wood-based products -
Determination of treatability of timber species to be
impregnated with wood preservatives - Laboratory
method**

Durabilité du bois et des matériaux dérivés du bois -
Détermination de l'imprégnabilité d'essences de bois
par des produits de préservation - Méthode de
laboratoire

Dauerhaftigkeit von Holz und Holzprodukten -
Bestimmung der Tränkbarkeit von Holzarten zur
Tränkung mit Holzschutzmitteln - Laborverfahren

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Contents	Page
European foreword.....	3
Introduction	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	5
4 Principle	5
5 Reagents	5
5.1 Copper sulfate pentahydrate, at least 98 % pure, solution of 50 g/kg	5
5.2 Indicator solution.....	5
5.3 Sealing compound.....	5
6 Apparatus.....	6
7 Preparation of test specimens.....	7
8 Procedure.....	7
8.1 Moisture content and density determination.....	7
8.2 Impregnation of test specimens (standard procedure).....	7
8.3 Measurement of penetration	8
9 Data handling.....	9
9.1 Treatability classes for individual test samples	9
9.2 Differentiation between treatability classes 3 and 4	10
9.3 Assignment of a treatability class to a set of specimens	10
10 Test report.....	11
Annex A (informative) Guidance on sampling	12
A.1 General.....	12
A.2 Origin of the material	12
A.3 Homogeneity of the sample	12
A.4 Heartwood	12
A.5 Saw pattern	13
A.6 Seasoning	13
A.7 Grading.....	13
Annex B (informative) Example of a test report.....	14
Bibliography.....	16

European foreword

This document (EN 14734:2022+AC: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 December 2022, and conflicting national standards shall be withdrawn at the latest by December 2022.

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This document supersedes CEN/TR 14734:2004.

This document includes the corrigendum EN 14734:2022/AC:2023 which corrects the last sentence of the fourth paragraph of 8.2.

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Introduction

The basis for this document was prepared as being part of the work for SMT project MAT-CT 94061 project number 3307: Improvement of CEN standards by short term methods for testing the natural durability and treatability of solid wood and wood based panel products.

It provides the means whereby the treatability of sapwood or heartwood of different wood species can be determined in order to determine likely reaction to impregnation with wood preservatives. Such an assessment provides data for use in EN 351-1 which establishes a system for specifying the treatment of wood with wood preservatives based upon the penetration and retention of preservatives achieved by the treatment process. EN 351-1 recognizes that different wood species respond to treatment differently depending on their ability to absorb preservative, and requires a different level of compliance depending on the treatability of the wood concerned. While EN 350 includes a subjective classification of the treatability of different wood species using a four class system, the method described in this document provides the means to determine the treatability objectively.

Although the method described uses an aqueous solution as the impregnating liquid, the method can be modified using other preservative types, e.g. organic solvent or emulsion preparations, if the response of the wood to a specific preservative is required. However, the method does not take account of preservative formulations where the active ingredients are selectively adsorbed on to the wood substrate resulting in the solvent penetrating more deeply than the biocides.