

ICS 71.100.50

English Version

Durability of wood and wood-based products - Remedial treatment of wood against insects by injection

Durabilité du bois et des matériaux dérivés -
Traitement curatif du bois contre les insectes par
injection

Dauerhaftigkeit von Holz und Holzprodukten -
Nachbehandlung von Holz gegen Insektenbefall durch
Injektion

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European foreword

This document (CEN/TR 17809:2022) has been prepared by Technical Committee CEN/TC 38 “Durability of wood and wood-based products”, the secretariat of which is held by AFNOR.

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Introduction

Several national guidelines throughout Europe exist, on how to apply curative wood preservatives especially via drilled holes or through pressure injection into wood. This technical report summarizes the different national advices on how to properly use this kind of application. It focuses on treatments against wood boring insects like *Hylotrupes bajulus*, *Anobium punctatum* and other anobiids.

1 Scope

This document provides guidance on how to apply curative acting wood preservatives by surface application, by filling pre-drilled holes, and by pressure impregnation through pre-drilled holes. It lists methods in a standardized form followed by additional detailed interpretive information.

This document also includes necessary preparations of structural timber prior to this kind of treatment. It gives guidance on how to calculate necessary retentions for filling pre-drilled holes or for pressure impregnation from test results obtained from surface applications (e.g. EN 1390).

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

EN 1390, *Wood preservatives - Determination of the eradicator action against *Hylotrupes bajulus* (Linnaeus) larvae - Laboratory method*

3 Terms and definitions

For the purposes of this document, the following terms and definitions 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>

3.1

filling of drilled holes

application of a wood preservative through a pre-drilled hole without pressure or at low-pressure of less than 1 bar

3.2

injection

application of a wood preservative through a pre-drilled hole with pressures of 3 to 5 bar (max. 15 bar)

4 General

Curative acting wood preservatives shall only be applied by professional users.

Curative acting wood preservatives are usually applied through surface application by brushing or spraying all surfaces of the infested wood. If not all surfaces are accessible, an increase in the penetration depth of a curative acting wood preservative against wood boring insects can be achieved through filling drilled holes or by pressure treatment through drilled holes. However, it is important to ensure that wood dimensions are suitable for drilling. The overall structural integrity and the load-bearing capacity shall not be weakened.