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Wood preservatives - Determination of the eradicant action against Hylotrupes bajulus (Linnaeus) larvae - Laboratory method

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN	This Estonian standard EVS-EN
1390:2006 sisaldab Euroopa standardi EN	1390:2006 consists of the English text of
1390:2006 ingliskeelset teksti.	the European standard EN 1390:2006.
O'	
Käesolev dokument on jõustatud	This document is endorsed on 30.08.2006
30.08.2006 ja selle kohta on avaldatud	with the notification being published in the
teade Eesti standardiorganisatsiooni	official publication of the Estonian national
ametlikus väljaandes.	standardisation organisation.
Standard on kättesaadav Eesti	The standard is available from Estonian
standardiorganisatsioonist.	standardisation organisation.
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EUROPEAN STANDARD NORME EUROPÉENNE **EUROPÄISCHE NORM**

EN 1390

June 2006

ICS 71.100.50

Supersedes ENV 1390:1994

English Version

Wood preservatives - Determination of the eradicant action against Hylotrupes bajulus (Linnaeus) larvae - Laboratory method

Produits de préservation du bois - Détermination de l'action curative contre les larves d'Hylotrupes bajulus (Linnaeus) -Méthode de laboratoire

Holzschutzmittel - Bestimmung der bekämpfeden Wirkung gegenüber Larven von Hylotrupes bajulus (Linnaeus) -Laboratoriumsverfharen

This European Standard was approved by CEN on 24 May 2006.

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. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



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

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Foreword

This document (EN 1390:2006) has been prepared by Technical Committee CEN/TC 38 "Durability of wood and derived materials", 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 December 2006, and conflicting national standards shall be withdrawn at the latest by December 2006.

This document supersedes ENV 1390:1994.

Significant technical differences between this standard and ENV 1390:1994 are as follows:

- a) introduction of new harmonised specifications for the test specimens used in the diverse biological tests;
- b) separation of the method according to the expected test periods for fast and slow acting preservatives and for deferred acting preservatives respectively;
- c) admission of the terms given in EN 1001-1and the definitions of EN 1001-2;
- d) introduction of an informative Annex to take account of consideration for minimisation of environmental and health hazards caused by the use of this biological test.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

Introduction

This document describes a laboratory method of testing which gives a basis for the assessment of the eradicant action of fast and slow acting wood preservatives and of deferred acting wood preservatives against *Hylotrupes bajulus*. It allows determination of the lethal effect of a surface application of a preservative product on a population of large larvae previously introduced into the test specimens.

The method simulates conditions in practice where a beam is treated, which is only slightly attacked and where cutting away has not exposed insect tunnels. This represents a severe test of the product.

In some particular instances, for example where the preservative is to be used on timbers of large dimensions, laminated beams, blockboard, plywood and other panel products, other test methods can be used to obtain complementary information on the effectiveness of the eradicant action of a product. Such methods lie outside the scope of this document.

This laboratory method provides one criterion by which the value of a product can be assessed. In making this assessment the methods by which the preservative may be applied should be taken into account. It is further recommended that results from this test should be supplemented by those from other appropriate tests, and above all by comparison with practical experience.

When products that are very active at low concentrations are used it is very important to take suitable precautions to isolate and separate, as far as possible, operations involving chemical products, other products, treated wood, laboratory apparatus and clothing. Suitable precautions should include the use of separate rooms, areas within rooms, extraction facilities, conditioning chambers and special training for personnel, (see also Annex C for environmental, health and safety precautions).

1 Scope

This document specifies a method for the determination of the eradicant action of a surface application of a fast and a slow acting wood preservative product or a deferred acting wood preservative product on timber infested with larvae of *Hylotrupes bajulus* (Linnaeus).

This method is applicable to:

organic formulations, as supplied or as prepared in the laboratory by dilution of concentrates,

or

organic water-dispersible formulations, as supplied or as prepared in the laboratory by dilution of concentrates,

or

water-soluble products, for example, salts.

NOTE An ageing procedure cannot be combined with this method.

2 Normative references

The following referenced documents are indispensable for the application 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 3696:1987)

ISO 835-1:1981, Laboratory glassware - Graduated pipettes - Part 1: General requirements

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

representative sample

sample with physical and/or chemical characteristics identical to the volumetric average characteristics of the total volume being sampled

[EN 1001-2:2005, **4.71**]

3.2

supplier

sponsor of the test (person or company providing the sample of wood preservative to be tested)

[Adapted from EN 1001-2:2005, **4.83**]

4 Principle

Insertion of larvae of *Hylotrupes bajulus* into test specimens. After a period of time to allow the larvae to establish themselves in the test specimens, treatment of these test specimens by brushing or pipetting of the test preservative product.

After the time necessary for the preservative to act effectively, assessment of the mortality of the larvae compared with that of larvae in untreated control test specimens.