

Durability of wood and wood-based products — Criteria for hot air processes for curative uses against wood destroying organisms

ICS 79.040

National foreword

This Published Document is the official English language version of CEN/TS 15003:2005.

The UK participation in its preparation was entrusted by Technical Committee B/515, Wood preservation, to Subcommittee B/515/2, Durability, treatment, performance and environment issues, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this subcommittee can be obtained on request to its secretary.

Cross-references

The British Standards which implement international publications referred to in this document may be found in the *BSI Catalogue* under the section entitled “International Standards Correspondence Index”, or by using the “Search” facility of the *BSI Electronic Catalogue* or of British Standards Online.

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

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, the CEN/TS title page, pages 2 to 16, an inside back cover and a back cover.

The BSI copyright notice displayed in this document indicates when the document was last issued.

Amendments issued since publication

Amd. No.	Date	Comments

This Published Document was published under the authority of the Standards Policy and Strategy Committee on 24 May 2005

© BSI 24 May 2005

ISBN 0 580 46029 0

English version

Durability of wood and wood-based products - Criteria for hot air processes for curative uses against wood destroying organisms

Durabilité du bois et des matériaux dérivés du bois -
Critères s'appliquant aux procédés à air chaud à usages
curatifs contre les organismes lignivores

Dauerhaftigkeit von Holz und Holzprodukten - Kriterien für
Heißluftverfahren zur Bekämpfung von holzerstörenden
Organismen

This Technical Specification (CEN/TS) was approved by CEN on 9 November 2004 for provisional application.

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

CEN members are required to announce the existence of this CEN/TS in the same way as for an EN and to make the CEN/TS available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force (in parallel to the CEN/TS) until the final decision about the possible conversion of the CEN/TS into an EN is reached.

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, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



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

Management Centre: rue de Stassart, 36 B-1050 Brussels

Contents

	Page
1 Scope	5
2 Terms and definitions	5
3 Wood destroying organisms	5
3.1 Beetles	5
3.2 Dry rot fungus	6
4 Performance requirements for curative hot air treatment.....	6
4.1 General.....	6
4.2 Health and safety considerations	6
4.3 Application against beetles	7
4.4 Application against the dry rot fungus (<i>Serpula lacrymans</i>)	7
5 Monitoring requirements	9
6 Process validation	10
6.1 General.....	10
6.2 Temperature control.....	10
6.3 Equipment	10
6.4 Locations for measuring	10
6.5 Time schedule for measuring.....	10
Annex A (informative) Example of a record for monitoring the hot air treatment to eradicate wood attacking beetles	12
A.1 General information.....	12
A.2 Installation of the monitoring instruments:	12
A.3 Monitoring record	12
Annex B (informative) Example of a record for monitoring the hot air treatment to eradicate the dry rot fungus (<i>Serpula lacrymans</i>)	13
B.1 General information.....	13
B.2 Installation of the monitoring instruments	13
B.3 Monitoring record	13

Foreword

This document (CEN/TS 15003:2005) has been prepared by Technical Committee CEN/TC 38 “Durability of wood and derived materials”, the secretariat of which is held by AFNOR.

This Technical Specification gives the criteria for hot air treatment for curative uses against wood destroying organisms. European Standard EN 14128 concerns the criteria for curative wood preservatives as determined by biological tests.

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

Introduction

This document should be used in conjunction with EN 14128 which describes the performance requirements for curative wood preservatives as determined by biological tests.

The need for hot air treatment for curative use against wood destroying organisms depends upon a careful diagnosis by expert, qualified specialists to determine the precise causes of the damage to be rectified. This should include the type of wood attacking organisms involved and in the case of beetles whether they are considered to be active, the environmental circumstances, the type of wood involved, the nature of the building or construction, and the structural and physical significance of the timber which is damaged or at risk of being damaged.

In particular the need for hot air treatment for curative use against the true dry rot fungus (*Serpula lacrymans*) should include the precise identification of the dry rot fungus, the environmental circumstances, especially the source and nature of any wetting, and the nature of the building or construction, including the masonry in which the dry rot fungus is present.

NOTE So far, no reliable methods exist to determine whether the true dry rot fungus in a building construction is dead or still alive, including dormant stage.

Hot air treatment for curative use should be used in an integrated way as part of a carefully prescribed strategy involving a series of actions appropriate to the particular circumstances of each case. Associated physical measures involving appropriate building works to remedy ingress of moisture and to dry out any dampness can be an essential prerequisite for the use of any process for curative use. Expert diagnosis should take into account all regional, practical, environmental, economical, safety and any other factors which may be relevant to the prescriptive decisions to be taken.

If properly done hot air treatment does not influence the mechanical properties of the timber involved. However the temperature usually applied can influence materials other than wood,

It is not the purpose of this document to provide a specification, or even guidance in developing specifications for remedial work to eradicate wood destroying organisms. It is intended to guide specifiers, users and others in selecting and specifying hot air treatment on the basis of its effectiveness as demonstrated in accordance with the criteria given.