

STN	Trvanlivosť dreva a výrobkov na báze dreva Zisťovanie účinnosti fungicídu proti prerasteniu huby suchej hniloby <i>Serpula lacrymans</i> (Schumacher ex Fries) S F Gray z muriva na drevo Laboratórna metóda	STN EN 12404 49 0667
------------	---	--

Durability of wood and wood-based products - Assessment of the effectiveness of masonry fungicide to prevent growth into wood of Dry Rot *Serpula lacrymans* (Schumacher ex Fries) S.F. Gray - Laboratory method

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 09/20

Obsahuje: EN 12404:2020

Oznámením tejto normy sa ruší
STN P CEN/TS 12404 (49 0667) z júna 2015

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 12404

May 2020

ICS 71.100.50

Supersedes CEN/TS 12404:2015

English Version

**Durability of wood and wood-based products - Assessment
of the effectiveness of masonry fungicide to prevent
growth into wood of Dry Rot *Serpula lacrymans*
(Schumacher ex Fries) S.F. Gray - Laboratory method**

Durabilité du bois et des matériaux dérivés du bois -
Évaluation de l'efficacité d'un fongicide de maçonnerie
pour empêcher le développement dans le bois de la
mérule *Serpula lacrymans* (Schumacher ex Fries) S.F.
Gray - Méthode de laboratoire

Dauerhaftigkeit von Holz und Holzprodukten -
Bestimmung der Wirksamkeit eines Schutzmittels
gegen das Überwachsen von Echtem Hausschwamm
Serpula lacrymans (Schumacher ex Fries) S.F. Gray
vom Mauerwerk auf das Holz -
Laboratoriumsverfahren

This European Standard was approved by CEN on 20 April 2020.

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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of 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 United Kingdom.



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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents	Page
European foreword.....	4
Introduction	5
1 Scope	6
2 Normative references	6
3 Terms and definitions	6
4 Principle	7
5 Test materials.....	7
5.1 Test fungus	7
5.1.1 Obligatory test fungus	7
5.1.2 Optional test fungi	7
5.1.3 Maintenance of strains.....	7
5.2 Products and reagents.....	7
5.3 Apparatus.....	8
6 Sample of the preservative	10
7 Mortar test specimen	10
7.1 Preparation of mortar	10
7.2 Preparation of mortar specimen.....	10
7.3 Curing of mortar test specimen	12
7.4 Leaching of mortar test specimen.....	12
7.5 Number and distribution of mortar test specimens.....	12
8 Wood test specimens	12
8.1 Species of wood.....	12
8.2 Quality of wood	12
8.3 Provision of wood test specimens.....	13
8.4 Dimensions of wood test specimens	13
9 Procedure.....	13
9.1 Culturing the test fungus	13
9.2 Treatment of mortar test specimens	13
9.3 Preparation of wood test specimens.....	13
9.4 Sterilization procedures.....	13
9.5 Exposure to fungus	13
9.6 Examination of the mortar test specimens.....	14
9.7 Validity of test.....	15
10 Statement of the results.....	15
11 Test report.....	15
Annex A (informative) Test fungi.....	16
A.1 General information on maintenance and acquisition of test strains	16
A.2 Maintenance and treatment of test fungi	16
A.3 Information regarding obligatory test fungus.....	17

A.4	Information regarding optional test fungus	17
Annex B (informative)	Methods of sterilization	18
B.1	Ionizing irradiation.....	18
B.2	Steam.....	18
Annex C (informative)	Example of a test report	19

EN 12404:2020 (E)**European foreword**

This document (EN 12404:2020) 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 November 2020, and conflicting national standards shall be withdrawn at the latest by November 2020.

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 CEN/TS 12404:2015.

In comparison with the previous version, the following technical change has been made:

The list in Subclause 9.6 has been replaced by ratings.

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.

Introduction

This document describes a laboratory method of test for the assessment of the effectiveness of a masonry fungicide applied to masonry for the prevention of the growth of dry rot, *Serpula lacrymans* (Schumacher ex Fries) S.F. Gray into wood.

This laboratory method enables the determination of the concentration of a preservative within mortar which could prevent the dry rot fungus from growing through a given mortar layer treated with this preservative.

Test results obtained with earlier versions of CEN/TS 12404 are still valid.

EN 12404:2020 (E)**1 Scope**

This document specifies a method for determining the performance of a preservative, applied to the upper surface of the mortar test specimens, in preventing the growth of dry rot through the treated mortar when exposed to the test fungus.

This method is only applicable to masonry fungicides applied as a true solution of the preservative in water or dilute oil in water emulsion. It is not applicable to rods, pastes and other similar preservative types. This method is applicable to preservatives applied to masonry by brushing, spraying and/or injection techniques or mixed into rendering and plastering mortar for masonry.

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 113:1996, *Wood preservatives - Test method for determining the protective effectiveness against wood destroying basidiomycetes - Determination of the toxic values*

EN 413-1, *Masonry cement - Part 1: Composition, specifications and conformity criteria*

EN 459-1, *Building lime - Part 1: Definitions, specifications and conformity criteria*

EN 599-1, *Durability of wood and wood-based products - Efficacy of preventive wood preservatives as determined by biological tests - Part 1: Specification according to use class*

EN ISO 3696, *Water for analytical laboratory use - Specification and test methods (ISO 3696)*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN