



SLOVENSKI STANDARD

SIST EN 113-3:2023

01-junij-2023

Nadomešča:

SIST-TS ENV 12038:2004

**Odpornost lesa in lesnih proizvodov - Preskusna metoda proti glivam
prostotrošnicam, ki uničujejo les - 3. del: Ocenjevanje odpornosti lesenih plošč**

Durability of wood and wood-based products - Test method against wood destroying
basidiomycetes - Part 3: Assessment of durability of wood-based panels

Dauerhaftigkeit von Holz und Holzprodukten - Prüfverfahren in Bezug auf Holz
zerstörende Basidiomyceten - Teil 3: Bewertung der Dauerhaftigkeit von Holzwerkstoffen

Durabilité du bois et des matériaux dérivés du bois - Méthode d'essai contre les
champignons basidiomycètes lignivores - Partie 3 : Évaluation de la durabilité des
panneaux à base de bois

SIST EN 113-3:2023

<https://standards.iteh.ai/catalog/standards/sist/bd3755b6-c784-42c2-b9-41c23df5c3bf/sist-en-113-3-2023>

Ta slovenski standard je istoveten z: EN 113-3:2023

ICS:

79.060.01	Lesne plošče na splošno	Wood-based panels in general
-----------	-------------------------	---------------------------------

SIST EN 113-3:2023

en,fr,de

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 113-3

February 2023

ICS 79.060.01

Supersedes ENV 12038:2002

English Version

**Durability of wood and wood-based products - Test
method against wood destroying basidiomycetes - Part 3:
Assessment of durability of wood-based panels**

Durabilité du bois et des matériaux dérivés du bois -
Méthode d'essai contre les champignons
basidiomycètes lignivores - Partie 3 : Évaluation de la
durabilité des panneaux à base de bois

Dauerhaftigkeit von Holz und Holzprodukten -
Prüfverfahren in Bezug auf Holz zerstörende
Basidiomyceten - Teil 3: Bewertung der
Dauerhaftigkeit von Holzwerkstoffen

This European Standard was approved by CEN on 25 December 2022.

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, Türkiye and United Kingdom.

<https://standards.iteh.ai/catalog/standards/sist/bd375136-a5ff-4cf1-8cb9-41c23df5c3bf/sist-en-113-3-2023>



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	7
4 Principle	7
5 Test material and apparatus.....	7
5.1 Biological material.....	7
5.1.1 Test fungi.....	7
5.1.2 Solid wood stock.....	8
5.2 Products and reagents.....	9
5.2.1 Culture medium	9
5.2.2 Additive for white rot fungi	9
5.3 Apparatus.....	10
5.3.1 Conditioning supports.....	10
5.3.2 Conditioning room.....	10
5.3.3 Culture chamber.....	10
5.3.4 Culture vessels	10
5.3.5 Ventilated drying oven.....	10
5.3.6 Desiccators	10
5.3.7 Test specimens supports.....	10
5.3.8 Safety equipment and protective clothing.....	10
5.3.9 Equipment for steam sterilization or access to a radiation source	10
5.3.10 Ordinary laboratory equipment.....	10
6 Test specimens.....	11
6.1 General.....	11
6.2 Test specimen preparation.....	11
7 Numbers of test specimens.....	11
7.1 Test product specimens.....	11
7.1.1 Test specimens.....	11
7.1.2 Moisture content check specimens.....	11
7.1.3 Wetting check specimens.....	11
7.2 Virulence control specimens	11
8 Procedure.....	12
8.1 Pre-conditioning.....	12
8.2 Initial dry mass	12
8.2.1 Test product specimens.....	12
8.2.2 Virulence control specimens	13
8.3 Sterilization of test specimens	13
8.4 Preparation of the culture vessels	13
8.5 Inoculation.....	13
8.6 Exposure of test specimens	13
8.6.1 Preparation of additive for white rot fungi	13

8.6.2	Test specimens	14
8.6.3	Virulence control specimens	14
8.6.4	Wetting check specimens	14
8.7	Culture conditions and duration of the test	14
8.8	Assessment of the test	14
8.8.1	Examination of the test specimens	14
8.8.2	Final dry mass	14
8.8.3	Validity of results	15
9	Validity of the test	15
10	Assessment of results	15
11	Test report	16
Annex A (informative) Guidance on sampling		18
Annex B (normative) Methods of sterilization		19
B.1	Ionizing radiation	19
B.2	Steam	19
Annex C (informative) Culture vessels		20
Annex D (informative) Example of a test report		23
Annex E (informative) Test fungi		26
E.1	General information on maintaining and acquisition of test strains	26
E.2	Maintenance and treatment of test fungi	26
E.3	Information regarding obligatory test fungi	27
E.3.1	<i>Coniophora puteana</i> (Schumacher ex Fries) Karsten [Synonym: <i>Coniophora cerebella</i> (Persoon) Duby]	27
E.3.2	<i>Pleurotus ostreatus</i> (Jacquin ex Fries) Kummer	27
E.3.3	<i>Gloeophyllum trabeum</i> (Persoon ex Fries) Murrill [Synonyms: <i>Lenzites trabea</i> (Persoon ex Fries) Fries - <i>Trametes trabea</i> (Persoon ex Fries) Bresadola]	27
E.3.4	<i>Trametes versicolor</i> (Linnaeus ex Fries) Pile [Synonyms: <i>Polyporus versicolor</i> Linnaeus ex Fries - <i>Polystictus versicolor</i> (Linnaeus) Saccardo - <i>Coriolus versicolor</i> (Linnaeus) Quelet]	27
E.3.5	<i>Rhodonía placenta</i> (Fr.) Niemelä, K.H. Larss. and Schigel [Synonym: <i>Poria placenta</i> (Fries) Cooke <i>sensu</i> J. Eriksson - <i>Poria monticola</i> Murrill]	28
E.4	Information regarding optional test fungi	28
Annex F (informative) Assessment of results		31
Annex G (informative) Moisture dynamics, coatings, composites and impact of dimensions		33
G.1	General information on moisture dynamics	33
G.2	Coated wood-based panels	33
G.3	Wood polymer composites and natural fibre composites	33
G.4	Impact of dimensions	34
Bibliography		35