



SLOVENSKI STANDARD

SIST EN 13442:2003

01-oktober-2003

Wood and parquet flooring and wood panelling and cladding - Determination of the resistance to chemical agents

Wood and parquet flooring and wood panelling and cladding - Determination of the resistance to chemical agents

Holzfußboden und Wand- und Deckenbekleidungen aus Holz - Bestimmung der chemischen Widerstandsfähigkeit

Planchers et parquets en bois et lambris et bardages en bois - Détermination de la résistance aux agents chimiques

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ICS:

79.080

Polizdelki iz lesa

Semi-manufactures of timber

SIST EN 13442:2003

en

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EUROPEAN STANDARD

EN 13442

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2002

ICS 79.080

English version

Wood and parquet flooring and wood panelling and cladding - Determination of the resistance to chemical agents

Planchers et parquets en bois et lambris et bardages en
bois - Détermination de la résistance aux agents chimiques

Holzfußboden und Wand- und Deckenbekleidungen aus
Holz - Bestimmung der chemischen Widerstandsfähigkeit

This European Standard was approved by CEN on 4 November 2002.

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 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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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

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Foreword

This document (EN 13442:2002) has been prepared by Technical Committee CEN /TC 175, "Round and sawn timber" 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 June 2003, and conflicting national standards shall be withdrawn at the latest by June 2003.

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

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EN 13442:2002 (E)

Introduction

This standard is one of a series of standards about wood in flooring (including parquet) and wood panelling and cladding.

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1 Scope

This European Standard specifies a test method to determine the resistance of the surface of an element of wood and parquet flooring, panelling and cladding, to a predetermined list of chemical agents they may be exposed to during their service life.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard, only when incorporated in it by amendment or revision. For undated references the latest edition of publication referred to applies (including amendments).

EN 13756:2002, *Wood flooring – Terminology*.

EN ISO 3668, *Paints and varnishes - Visual comparison of the colour of paints (ISO 3668:1998)*.

ISO 1065, *Non-ionic surface-active agents obtained from ethylene oxide and mixed non-ionic surface-active agents - Determination of cloud point*.

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3 Terms and definitions

For the purposes of this European Standard, the terms and definitions given in EN 13756:2002 apply as well as the following.

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3.1

test piece

part, of a size suitable for testing, taken from an element

3.2

test specimen

either a full element or an assembly of elements to be tested

3.3

test surface

part of the test piece, where the test area is located

NOTE For products made from small elements the test piece can be the same as the test specimen.

3.4

test area

area under the Petri dish (see 6.2.2)

3.5

reference area

any unexposed surface of the test specimen close to the test area but outside the Petri dish

4 Principle

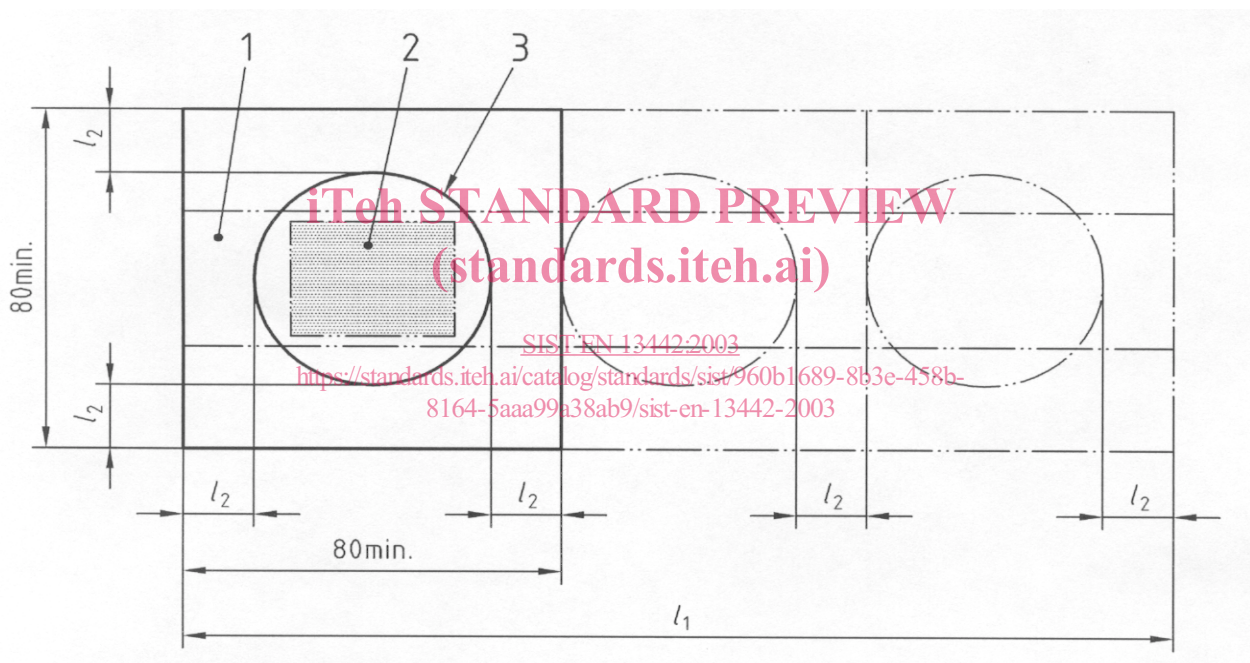
Application of a liquid test agent to a surface by means of saturated paper, covered by glass Petri dish. After a specified period of time, removal of the paper, washing and drying of the surface and examination for visible change. Assessment of the test results in terms of a numerical rating code.

5 Test pieces and test specimens

5.1 Dimensions

A test piece shall have a minimum size of 80 mm by 80 mm by the thickness of the element, see Figure 1.

Dimensions in millimetres.



Key

- 1 Test surface
- 2 Test area
- 3 Petri dish

$$l_1 \geq 80 + 60(n - 1)$$

minimum distance between the edge and the next test area(s) according to the number of test areas;

$$l_2 = 20 \text{ mm}$$

minimum distance between any test area and the edge or another test area;

n is the number of test areas

Figure 1 — Dimensions of a test piece

If the size of the element delivered by the manufacturer does not allow the cutting of a test piece, a test specimen shall be assembled in accordance with the manufacturer's specification, which allows to cut the necessary test pieces.

5.2 Sampling

Three test pieces or test specimens shall be tested for each agent to be applied.

6 Equipment and materials

6.1 Apparatus

6.1.1 Conditioning

If a conditioning system is available, the following climate shall be used:

- temperature $(23 \pm 2) ^\circ\text{C}$;
- relative humidity $(50 \pm 5) \%$.

6.1.2 Light sources

6.1.2.1 Diffused light source, providing evenly diffused light giving an illumination on the test area of between 2000 lx and 5000 lx.

The light source shall have a correlated colour temperature of (6500 ± 50) K and an R_a greater than 92, by using a colour matching booth in accordance with EN ISO 3668.

6.1.2.2 Direct light source, 60 W frosted bulb so screened that light reaches the test area only from the bulb and that the bulb is not in direct view of the tester. The angle between the horizontal and a line between the bulb and the area under examination shall be 30° to 60° .

NOTE These conditions are fulfilled when the direct source is placed in a viewing cabinet as shown in Figure 2.

6.2 Test equipment

6.2.1 Pieces of cellulose filter paper to apply each of the test agents, free of dyes and of chemicals, with a grammage of 400 g/m^2 to 500 g/m^2 .

They shall have an area of $(500 \pm 50) \text{ mm}^2$. Their shape shall be chosen to suit the surface of a small element or a small single parquet strip without overlapping the edges of the element or parquet strip to be tested.