



SLOVENSKI STANDARD

SIST EN 382-1:1996

01-marec-1996

Vlknene plošče - Določanje vpijanja po površini - 1. del: Preskusna metoda za vlknene plošče po suhem postopku (plošče MDF)

Fibreboards - Determination of surface absorption - Part 1: Test method for dry process fibreboards

Faserplatten - Bestimmung der Oberflächen-Absorption - Teil 1: Prüfverfahren für Faserplatten nach dem Trockenverfahren

Panneaux de fibres de bois - Détermination de l'absorption de surface - Partie 1: Méthode d'essai pour panneaux de fibres obtenus par procédé a sec

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Ta slovenski standard je istoveten z: **EN 382-1:1993**

ICS:

79.060.20 Vlknene in iverne plošče Fibre and particle boards

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en

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EUROPEAN STANDARD

EN 382-1:1993

NORME EUROPÉENNE

EUROPÄISCHE NORM

February 1993

UDC 674.03:674.815:620.179.111.5

Descriptors: Fibreboard, surface absorption, test method, dry process

English version

**Fibreboards - Determination of surface absorption
- Part 1 :Test method for dry process fibreboards**

Panneaux de fibres de bois - Détermination de
l'absorption de surface - Partie 1: Méthode
d'essai pour panneaux de fibres obtenus par
procédé à sec

Faserplatten - Bestimmung der
Oberflächen-Absorption - Teil 1 : Prüfverfahren
für Faserplatten nach dem Trockenverfahren

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This European Standard was approved by CEN on 1992-12-15. 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.

The European Standards exist 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, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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Foreword

This European Standard was prepared by Working Group 3 "Fibreboards" (Secretariat: Italy) of Technical Committee CEN/TC 112, Wood-based panels (Secretariat: Germany).

This standard is one of a series specifying methods of test for determining the properties of fibreboards.

No existing European Standard is superseded.

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 August 1993, and conflicting national standards shall be withdrawn at the latest by December 1994.

[SIST EN 382-1:1996](https://standards.iteh.ai/catalog/standards/sist/c81ac88b-8c8a-4dba-8add-424d38107382/en-382-1-1993)

In accordance with the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom.

1 Scope

This European Standard specifies a method of determining the surface absorption of dry process fibreboards.

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 last edition of the publication referred to applies.

- EN 324-1 Wood-based panels
Determination of dimensions of boards
Part 1: Determination of thickness, width and length
- EN 326-1 Wood-based panels
Sampling, Cutting and Inspection
Part 1: Sampling and cutting of test pieces and expression of test results ¹⁾
- ISO 835-2 Laboratory glassware
Graduated pipettes
Part 2: Pipettes for which no waiting time is specified

3 Principle

The surface absorption of dry process fibreboards is determined by letting a drop of toluene run down the surface of a test piece and measuring the length of the stain.

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4 Apparatus

4.1 Support

Support against which the test pieces can be leaned at an angle of $(60 \pm 5)^\circ$ (figure 1).

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4.2 Graduated pipette

Class A type 2 graduated pipette according to ISO 835-2 with a nominal capacity of 2 ml, and a rigid fixture to position the pipette.

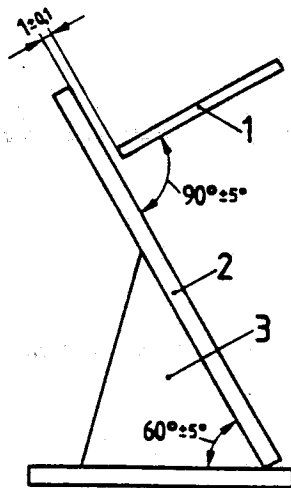
4.3 Toluene

Toluene of analytical grade.

¹⁾ At present at the draft stage

4.4 Measuring tape

Measuring tape, according to EN 324-1.



1 Pipette

2 Test piece

3 Support

Figure 1: Determination of surface absorption of dry process fibreboards (principle)

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5 Test pieces**5.1 Sampling**

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Sampling and cutting of the test pieces shall be carried out according to EN 326-1. From each board three test pieces shall be taken.

5.2 Dimensions

The dimensions of the test pieces are (300 ± 2) mm x (100 ± 2) mm x board thickness. The longer dimensions shall be in the direction of sanding.

5.3 Conditioning

The test pieces shall be conditioned to constant mass in an atmosphere with a mean relative humidity of (65 ± 5) % and a temperature of (20 ± 2) °C. Constant mass is considered to be reached when the results of two successive weighing operations, carried out at an interval of 24 h, do not differ by more than 0,1 % of the mass of the test piece.

6 Procedure

6.1 Positioning

Position the test piece on the support at an inclination of $(60 \pm 5)^\circ$, with the sanding direction pointing downwards. Position the pipette on its fixture at $(90 \pm 5)^\circ$ to and at a distance of $(1 \pm 0,1)$ mm from the face of the test piece.

6.2 Discharge of the toluene

Discharge 1 ml of toluene, having a temperature of (20 ± 2) °C, from the pipette onto the face of the test piece, within (4 ± 1) s. Allow the toluene to run freely down the inclined surface of the test piece.

For boards with two smooth surfaces, both faces shall be tested.

The test shall be carried out inside a fume cupboard.

6.3 Measurement

Measure the maximum length of the stain caused by the toluene, along a line parallel to the edges of the test piece, with an accuracy of ± 1 millimetre.

7 Expression of results

7.1 For a test piece

The surface absorption of a test piece is expressed as the length of the stain caused by the toluene, to the nearest millimetre. When testing boards with two smooth surfaces, the lower of these two values shall be taken.

7.2 For a board

The surface absorption of a board is the arithmetic mean of the results of all test pieces taken from that board, expressed to 1 mm.

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8 Test report

According to EN 326-1.

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Annex A (informative)

Bibliography

EN 316 Wood Fibreboards
Definition, classification and symbols

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