



SLOVENSKI STANDARD

SIST EN 312-3:1997

01-april-1997

Iverne plošče - Specifikacije - 3. del: Zahteve za uporabo plošč za notranjo vgradnjo (vključno pohištvo) v suhih pogojih

Particleboards - Specifications - Part 3: Requirements for boards for interior fitments (including furniture) for use in dry conditions

Spanplatten - Anforderungen - Teil 3: Anforderungen an Platten für Inneneinrichtungen (einschließlich Möbel) zur Verwendung im Trockenbereich

Panneaux de particules - Exigences - Partie 3: Exigences pour panneaux pour agencements intérieurs (y compris les meubles) utilisés en milieu sec

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Ta slovenski standard je istoveten z: EN 312-3:1996

ICS:

79.060.20	Vlaknene in iverne plošče	Fibre and particle boards
97.140	Pohištvo	Furniture

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en

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EUROPEAN STANDARD

EN 312-3

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 1996

ICS 79.060.20; 97.140

Descriptors: wooden boards, particle boards, appointments, characteristics, specifications, environments, conformity tests, marking

English version

**Particleboards - Specifications - Part 3:
Requirements for boards for interior fitments
(including furniture) for use in dry conditions**

Panneaux de particules - Exigences - Partie 3:
Exigences pour panneaux pour agencements
intérieurs (y compris les meubles) utilisés en
milieu sec

Spanplatten - Anforderungen - Teil 3:
Anforderungen an Platten für Inneneinrichtungen
(einschließlich Möbel) zur Verwendung im
Trockenbereich

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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.

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CEN

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

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

1 Scope

This European Standard specifies the requirements for boards for interior fitments (including furniture) for use in dry conditions¹⁾.

Additional information on supplementary properties for certain applications is also given.

Particleboards in accordance with this standard may be referred to as P3-boards.

This standard does not give requirements for Oriented Strand Boards (OSB); these are set out in EN 300.

This standard does not apply to extruded particleboards.

2 Normative references

This European Standard incorporated 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 the publication referred to applies.

EN 300

Oriented Strand Boards (OSB) – Definitions, classification and specifications

EN 310

Wood-based panels – Determination of modulus of elasticity in bending and bending strength

EN 311

Particleboards – Surface soundness of particleboards – Test method

EN 312-1

Particleboards – Specifications – Part 1: General requirements for all board types

EN 317

Particleboards and fibreboards – Determination of swelling in thickness after immersion in water

EN 318

Fibreboards – Determination of dimensional changes associated with changes in relative humidity

EN 319

Particleboards and fibreboards – Determination of tensile strength perpendicular to the plane of the board

EN 323

Wood-based panels – Determination of density

EN 326-1

Wood-based panels – Sampling, cutting and inspection – Part 1: Sampling and cutting of test pieces and expressions of test results

ISO 3340

Fibre building boards - Determination of sand content

¹⁾ Dry conditions are characterized by a moisture contents in the material corresponding to a temperature of 20 °C and the relative humidity of the surrounding air only exceeding 65 % for a few weeks per year. Boards of this type are only suitable for use in biological hazard class 1 of EN 335-3.

3 Requirements

3.1 General

Particleboards shall comply with the general requirements as listed in EN 312-1, together with the requirements set out in Table 1 of this standard.

The requirements in Table 1 shall be met by 5 percentile values based on the mean values for individual boards and calculated in accordance with EN 326-1. They shall be equal to or greater than the values in Table 1.

The values in Table 1 for both bending strength and modulus of elasticity shall apply to test results obtained in any direction in the plane of the panel.

The values in Table 1 for surface soundness shall apply to test results obtained from each surface.

3.2 Mechanical properties

Table 1: Requirements for specified mechanical properties

Property	Test method	Unit	Requirement							
			Thickness range (mm, nominal)							
			3 to 4	>4 to 6	>6 to 13	>13 to 20	>20 to 25	>25 to 32	>32 to 40	>40
Bending strength	EN 310	N/mm ²	13	15	14	13	11,5	10	8,5	7
Modulus of elasticity in bending	EN 310	N/mm ²	1 800	1 950	1 800	1 600	1 500	1 350	1 200	1 050
Internal bond	EN 319	N/mm ²	0,45	0,45	0,40	0,35	0,30	0,25	0,20	0,20
Surface soundness	EN 311	N/mm ²	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8

NOTE: The values are characterised by a moisture content in the material corresponding to a relative humidity of 65 % and a temperature of 20 °C.

3.3 Supplementary properties

For certain applications, information on some of the properties listed in Table 2 can be required. On request, this information shall be supplied by the board manufacturer, and in this case shall have been derived using the test methods listed in Table 2.

Table 2: Supplementary properties and test methods

Property	Test method
Density	EN 323
Dimensional changes	EN 318
Swelling in thickness	EN 317
Sand content	ISO 3340

NOTE: For certain applications, information on additional properties not specified in table 2 can be required. For instance, for the determination of thermal conductivity and of water vapour transmission properties, work is in progress in CEN/TC 89. Until this work is completed, users should refer to national publications. These should also be consulted for information on the fire behaviour of particleboards.

4 Verification of compliance

4.1 General

Verification of compliance with this European Standard shall be carried out using the test methods listed in table 1 and in EN 312-1.

4.2 External control

External control of the factory, if any, shall be carried out according to a statistical basis²⁾.

Inspection of consignments shall be carried out according to a statistical basis²⁾.

4.3 Internal control

Internal control shall be carried out according to a statistical basis²⁾

The properties listed in table 1 and in EN 312-1, shall be controlled using intervals between tests not exceeding the intervals given in table 3. Sampling shall be carried out at random. Alternative test methods and/or unconditioned test pieces may be used if a valid correlation to the specified test methods can be proven (see EN 326-2²⁾). The intervals between tests given in table 3 are related to a production under statistical control.

Table 3: Maximum intervals between tests for each product line

Property	Maximum interval between tests
General properties	see EN 312-1
All other properties listed in table 1	8 h ^{*)}
*) If several thickness ranges are produced in one 8 h shift, the internal control shall be organized so that at least one board of each thickness range is tested in one week's production.	

²⁾ It is intended to apply prEN 326-2 and prEN 326-3 as a statistical basis when implemented

5 Marking

Each panel or package shall be clearly marked by the manufacturer either by indelible direct printing or by an adhesive label at least with the following information in this sequence:

- a) the manufacturer's name, trade mark, or identification mark;
- b) the number of this EN 312-3;
- c) the nominal thickness;
- d) the formaldehyde class;
- e) the batch number, or the production week and year.

Additionally, panels may be colour coded by the vertical application near one corner of a series of colour stripes each 25 mm in width; the colours shall comply with the colour coding system given in EN 312-1.

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