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Puitlaastplaadid ja puitkiudplaadid. Plaadi pinnaga ristsuunalise tõmbetugevuse määramine

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

EESTI STANDARDIKESKUS
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Võtmesõnad: katseimeetod, puitkiudplaat, puitlaastplaat, ristsuunaline tõmbetugevus, sisesidusus, tsementsideainega puitlaastplaat

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English version

Particleboards and fibreboards

Determination of tensile strength perpendicular to the plane of the board

Panneaux de particules et panneaux de fibres; détermination de la résistance à la traction perpendiculaire aux faces du panneau

Spanplatten und Faserplatten; Bestimmung der Zugfestigkeit senkrecht zur Plattenebene

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

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CEN

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

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Foreword

This European Standard was prepared by Working Group 1 'Particleboards' and Working Group 3 'Fibreboards' (Secretariat: UNI) of Technical Committee CEN/TC 112 'Wood-based panels', the Secretariat of which is held by DIN.

This standard is one of a series of standards specifying methods of test for determining the properties of particleboard and fibreboard.

No existing European Standard is superseded.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by publication of an identical text or by endorsement, by August 1993 at the latest, and conflicting national standards withdrawn, by December 1994 at the latest.

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 and United Kingdom.

1 Scope

This European Standard specifies a method for determining the resistance to tension perpendicular to the plane of the board ('internal bond') of particleboards, fibreboards, and cement-bonded particleboards.

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 the publication referred to applies.

EN 325 Wood-based panels; determination of dimensions of test pieces

EN 326-1 Wood-based panels; sampling, cutting and inspection. Part 1: Sampling and cutting of test pieces and expression of test results[1])

3 Principle

Determination of resistance to tension perpendicular to the surface of the test piece by submitting the latter to a uniformly distributed tensile force until rupture occurs. Tensile strength perpendicular to the plane of the board is determined by the maximum load in relation to the surface area of the test piece.

4 Apparatus

4.1 Sliding caliper

Sliding caliper according to EN 325.

4.2 Testing machine

Testing machine, capable of applying a tensile force perpendicular to the surfaces of the test piece by means of grips (figure 1), and measuring this force to an accuracy of 1 %. The grips shall be self-aligning by means of a ball-and-socket joint on both sides of the test piece.

4.3 Test blocks

Test blocks (metal, hardwood or hardwood plywood), compatible with the fixing device, to which the test pieces are to be bonded (figure 1).

5 Test pieces

5.1 Sampling

Sampling and cutting of the test pieces shall be carried out according to EN 326-1.

5.2 Dimensions

The test pieces shall be square with a side length of (50 ± 1) mm. The test pieces shall be cut with precision, the angles shall be 90°, and the edges shall be straight and clean.

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[1]) At present at the draft stage.