

**Puitlaastplaadid ja puitkiudplaadid. Plaadi pinnaga
ristsuunalise tõmbetugevuse määramine**

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

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 319:2000 sisaldab Euroopa standardi EN 319:1993 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 09.10.2000 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 26.02.1993.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 319:2000 consists of the English text of the European standard EN 319:1993.

This standard is ratified with the order of Estonian Centre for Standardisation dated 09.10.2000 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

Date of Availability of the European standard text 26.02.1993.

The standard is available from Estonian standardisation organisation.

ICS 79.060.20

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

Standardite reprodutseerimis- ja levitamiseõigus kuulub Eesti Standardikeskusele

Andmete paljundamine, taastekitamine, kopeerimine, salvestamine elektroonilisse süsteemi või edastamine ükskõik millises vormis või millisel teel on keelatud ilma Eesti Standardikeskuse poolt antud kirjaliku loata.

Kui Teil on küsimusi standardite autorikaitse kohta, palun võtke ühendust Eesti Standardikeskusega:
Aru 10 Tallinn 10317 Eesti; www.evs.ee; Telefon: 605 5050; E-post: info@evs.ee

UDC 674.03:674.815:674.817:620.172

Descriptors: Particleboard, fibreboard, cement-bonded particleboard, test method, transverse tensile strength, internal bond.

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.

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.

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 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

Contents

	Page
1 Scope	2
2 Normative references	2
3 Principle	2
4 Apparatus	2
5 Test pieces	2
6 Procedure	4
7 Expression of results	4
8 Test report	4
Annex A (informative) Bibliography	4

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 results¹⁾

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.

¹⁾ At present at the draft stage.