

**Puitlaastplaadid ja puitkiudplaadid. Kruvide
teljesuunalise väljatõmbe vastupanu määramine**

Particleboards and fibreboards - Determination of resistance
to axial withdrawal of screws

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 320:2011 sisaldab Euroopa standardi EN 320:2011 ingliskeelset teksti.

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English Version

Particleboards and fibreboards - Determination of resistance to axial withdrawal of screws

Panneaux de particules et panneaux de fibres -
Détermination de la résistance à l'arrachement des vis
selon leur axe

Spanplatten und Faserplatten - Bestimmung des
achsenparallelen Schraubenauszieh Widerstands

This European Standard was approved by CEN on 17 March 2011.

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Foreword

This document (EN 320:2011) has been prepared by Technical Committee CEN/TC 112 "Wood-based panels", the secretariat of which is held by DIN.

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of an identical text or by endorsement, at the latest by October 2011, and conflicting national standards shall be withdrawn at the latest by October 2011.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 320:1993.

Compared to EN 320:1993, the following modifications have been made:

- a) Scope extended to include also particleboards;
- b) Normative references updated.

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

1 Scope

This European Standard specifies a method for the determination of the resistance of fibreboards and particleboards to axial withdrawal of screws.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 326-1, *Wood-based panels — Sampling, cutting and inspection — Part 1: Sampling and cutting of test pieces and expression of test results*

EN ISO 1478, *Tapping screws thread (ISO 1478:1999)*

3 Principles

Face and edge withdrawal of screws are determined by measuring the force required to withdraw a defined screw from the test piece. Edge withdrawal is only determined on boards of 15 mm thickness or more.

4 Apparatus

4.1 Testing machine, which shall be capable of applying in increasing axial load to the underside of the screw head through a suitable stirrup, whilst adequately restraining the test piece at the same time and measuring the maximum load to an accuracy of 1 %.

4.2 Metal jig.

For testing face withdrawal of screws of boards of less than 15 mm thickness, the use of a metal jig with a central boring, which restrains the test piece (see Figure 1), is recommended.