

English version

Wood-based panels - Small scale indicative test methods for certain mechanical properties

Panneaux à base de bois - Méthodes d'essais indicatives
sur éprouvettes de petites dimensions pour certaines
propriétés mécaniques

Holzwerkstoffe - Orientierende Prüfverfahren an kleinen
Prüfkörpern für einige mechanische Eigenschaften

This Technical Specification (CEN/TS) was approved by CEN on 25 October 2004 for provisional application.

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Foreword

This document (CEN/TS 14966:2005) has been prepared by Technical Committee CEN/TC 112 “Wood-based panels”, the secretariat of which is held by DIN.

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1 Scope

This Technical Specification specifies small-scale test methods for estimating the following mechanical properties of wood-based panels:

- indicative planar shear strength (sometimes referred to as block shear);
- indicative panel shear strength;
- indicative strength and modulus of elasticity in tension in the plane of the panel;
- indicative strength in compression in the plane of the panel.

Reference should be made to EN 310 for bending properties. For plywood, EN 314-1 may also be used as an indicator of planar shear strength.

These test methods are intended for indicative purposes only and should not be used as a means of determining structural design values. They may not be suitable for all panel types. They may be used as a means of supporting quality control procedures for structural panels, if correlations with EN 789 test results can be established (CEN Technical Report in preparation).

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 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.*

3 Terms and definitions

For the purposes of this document, the following terms and definition apply.

3.1

indicative test

test intended to give an estimate of a particular property for guidance purposes only. It may be used as a tool for the estimation of additional properties where a reliable correlation can be demonstrated

4 Indicative planar shear strength

4.1 Principle

The shear strength parallel to the surface of the test piece is determined by applying a uniform compressive force until rupture occurs. The compression load required to obtain failure is measured.

NOTE This test procedure is not appropriate to plywood made from mixed species.