



SLOVENSKI STANDARD
oSIST prEN 12369-3:2007
01-julij-2007

Wood-based panels - Characteristic values for structural design - Part 3: Solid-wood panels

Wood-based panels - Characteristic values for structural design - Part 3: Solid-wood panels

Holzwerkstoffe - Charakteristische Werte für die Berechnung und Bemessung von Holzbauwerken - Teil 3: Massivholzplatten

Panneaux a base de bois - Valeurs caractéristiques pour la conception des structures - Partie 3: Bois panneautés

Ta slovenski standard je istoveten z: prEN 12369-3

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ICS:

79.060.99 Other wood-based panels

oSIST prEN 12369-3:2007 en

March 2007

ICS 79.060.99

English Version

Wood-based panels - Characteristic values for structural design - Part 3: Solid-wood panels

Panneaux à base de bois - Valeurs caractéristiques pour la
conception des structures - Partie 3: Bois panneaux

Holzwerkstoffe - Charakteristische Werte für die
Berechnung und Bemessung von Holzbauwerken - Teil 3:
Massivholzplatten

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 112.

If this draft becomes a European Standard, 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.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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Foreword

This document (prEN 12369-3:2007) has been prepared by Technical Committee CEN/TC 112 “Wood-based panels”, the secretariat of which is held by DIN.

This document is currently submitted to the CEN Enquiry.

This standard is intended to be used in conjunction with EN 1995-1-1.

This standard is one of a series specifying characteristic values of wood-based panels for structural design. The other parts of this series are listed in the Bibliography.

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1 Scope

This European Standard provides information on the characteristic values for use in designing structures incorporating wood-based panels. The characteristic values given are as defined in EN 1995-1-1.

This standard includes the characteristic values of the mechanical properties and of the raw density for solid-wood panels complying with EN 13353.

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 338, *Timber structures — Strength classes*

EN 789, *Timber structures — Test Methods — Determination of mechanical properties of wood-based panels*

EN 1058, *Wood-based panels — Determination of characteristic values of mechanical properties and density*

EN 1995-1-1, *Eurocode 5: Design of timber structures — Part 1-1: General — Common rules and rules for buildings*

EN 13017-1, *Solid wood panels — Classification by surface appearance — Part 1: Softwood*

EN 13017-2, *Solid wood panels — Classification by surface appearance — Part 2: Hardwood*

EN 13353, *Solid-wood panels (SWP) — Requirements*

3 Terms and definitions and symbols

3.1 Terms and definitions

For the purposes of this European Standard, the following terms and definitions apply.

3.1.1

characteristic values

characteristic strength values are defined as the population 5-percentile values obtained from the results of tests with a duration of 300 s at an equilibrium moisture content of the test pieces relating to a temperature of 20 °C and a relative humidity of 65 %.

Characteristic stiffness values are defined as either the population 5-percentile or the mean values obtained under the same test conditions as defined above. The stiffness values given in the Tables are mean values as these are most commonly used in design. A note in Annex A explains how to calculate the 5-percentile value.

The characteristic density is defined as the population 5-percentile value with mass and volume corresponding to equilibrium moisture content at a temperature of 20 °C and a relative humidity of 65 %. This value is used in the design of joints in association with EN 1995-1-1

3.1.2

service class

three service classes are defined in EN 1995-1-1 as follows:

service class 1: is characterized by a moisture content in the materials corresponding to a temperature of 20 °C and the relative humidity of the surrounding air exceeding 65 % only for a few weeks per year.