



SLOVENSKI STANDARD
oSIST prEN 1058:2023
01-november-2023

Lesne plošče - Ugotavljanje karakterističnih 5-percentilnih vrednosti in karakterističnih srednjih vrednosti

Wood-based panels - Determination of characteristic 5-percentile values and characteristic mean values

Holzwerkstoffe - Bestimmung der charakteristischen 5-%-Quantilwerte und der charakteristischen Mittelwerte

Panneaux à base de bois - Détermination des valeurs caractéristiques correspondant au fractile à 5 % d'exclusion et des valeurs caractéristiques moyennes

Ta slovenski standard je istoveten z: prEN 1058

[oSIST prEN 1058:2023](https://standards.iteh.ai/catalog/standards/sist/71529933-6646-41c2-b46c-11401a70114a/osist-pr-en-1058-2023)

ICS:

79.060.01	Lesne plošče na splošno	Wood-based panels in general
-----------	-------------------------	------------------------------

oSIST prEN 1058:2023

en,fr,de

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

DRAFT
prEN 1058

August 2023

ICS 79.060.10

Will supersede EN 1058:2009

English Version

Wood-based panels - Determination of characteristic 5-percentile values and characteristic mean values

Panneaux à base de bois - Détermination des valeurs caractéristiques correspondant au fractile à 5 % d'exclusion et des valeurs caractéristiques moyennes

Holzwerkstoffe - Bestimmung der charakteristischen 5-%-Quantilwerte und der charakteristischen Mittelwerte

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.

This draft European Standard was established by CEN 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 CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of 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, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and United Kingdom.

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.

Warning : This document is not a European Standard. It is distributed for review and comments. It is subject to change without notice and shall not be referred to as a European Standard.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents	Page
European foreword	3
1 Scope	4
2 Normative references	4
3 Terms and definitions	4
4 Symbols	5
5 Reference population	5
6 Determination of characteristic values of mechanical and physical properties	5
6.1 Sampling	5
6.2 Testing	6
6.3 Analysis of data	6
6.3.1 General	6
6.3.2 Strength and stiffness properties	6
6.3.3 Characteristic mean value (50-percentile characteristic value)	6
7 Test report	6
Annex A (informative) Calculation of the 5-percentile characteristic value of log-normal distributed test data according to EN 14358	7
A.1 Symbols	7
A.1.1 Letter symbols	7
A.1.2 Indices	7
A.2 Analysis of data – Characteristic value m_k of test data with unknown coefficient of variation	7
A.3 Acceptance criteria for a sample	8
A.4 Example of calculation – Determination of the characteristic value of the modulus of bending \bar{f}_{05} of particle boards with unknown coefficient of variation	8
Annex B (informative) Calculation of the characteristic mean value (50-percentile value) of normal distributed test data according to EN 14358	11
B.1 Symbols	11
B.1.1 Letter symbols (see also Annex A)	11
B.1.2 Indices (see also Annex A)	11
B.2 Analysis of data – 50-percentile characteristic value (characteristic mean value)	11
B.3 Acceptance criteria for a sample	11
Bibliography	12

European foreword

This document (prEN 1058:2023) 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 document will supersede EN 1058:2009.

The main changes compared to the previous edition are listed below:

- a) test methods like EN 1195 or any other relevant test referring to prEN 1058 included in the scope;
- b) the calculation of mean values (50-percentile values) follows the statistical principles of EN 14358:2016, 4.3: Calculation of characteristic stiffness properties (mean values);
- c) the characteristic mean values are taken as the sample mean value of EN 14358:2016, Formula (14).
- d) Annex B is informative.

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

[oSIST prEN 1058:2023](https://standards.iteh.ai/catalog/standards/sist/71329955-0bab-41e2-ba8c-41484a7011a4/osist-pren-1058-2023)

<https://standards.iteh.ai/catalog/standards/sist/71329955-0bab-41e2-ba8c-41484a7011a4/osist-pren-1058-2023>

prEN 1058:2023 (E)**1 Scope**

On the basis of test results from wood-based panel products for structural purposes, this document specifies a method for the determination of:

- characteristic 5-percentile values of mechanical properties under the assumption of a log-normal distribution of the test data according to EN 14358; and
- characteristic mean values (50-percentile values) of physical properties under the assumption of a normal distribution of the test data according to EN 14358.

Test data can be determined from tests using the test methods outlined in test the standard EN 789 or other relevant test standard, performance standard or product standard normatively referring to prEN 1058.

NOTE See e.g. EN 1195 and EN 12871.

The statistical evaluation follows the principles of Annex D of EN 1990:2002, of EN 1995-1-1:2004, *Eurocode 5: Design of timber structures — Part 1-1: General — Common rules and rules for buildings*, and of EN 14358:2016, *Timber structures. Calculation and verification of characteristic values*.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 789, *Timber structures - Test methods - Determination of mechanical properties of wood based panels*

EN 1195, *Timber structures - Test methods - Performance of structural floor decking*

3 Terms and definitions

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

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp/>
- IEC Electropedia: available at <https://www.electropedia.org/>

3.1**characteristic value**

value of a material property which is defined as a fractile of the distribution of that property within the total population of that material

Note 1 to entry: For all strength properties, this fractile is the fifth percentile. For stiffness properties as well as physical properties, two different characteristic values can be used: the fifth percentile and the mean value.

3.2**panel**

piece of wood-based sheet material large enough to permit the cutting of test pieces