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Timber structures — Determination of characteristic values —

Part 4: Engineered wood products

Structures en bois — Détermination des valeurs caractéristiques —

Partie 4: Produits bois reconstitués

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ISO copyright office
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

The committee responsible for this document is ISO/TC 165, *Timber structures*.

A list of all the parts in the ISO 12122 series can be found on the ISO website.

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Introduction

This document sets out a framework for establishing characteristic values from test results on a sample drawn from a clearly defined reference population of engineered wood products. The characteristic value is an estimate of the property of the reference population with a consistent level of confidence prescribed in the standard.

This document is intended to be used in conjunction with ISO 12122-1.

This document permits the evaluation of characteristic values on testing on commercial engineered wood products.

In some cases, characteristic values determined in accordance with this document may be modified to become a design value.

The document has the following annexes:

— Annex A presents a commentary on this document;

— Annex B presents information on methods for calculating characteristic values from component properties.

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Timber structures — Determination of characteristic values —

Part 4: Engineered wood products

1 Scope

This document gives methods of determination of characteristic values for a defined population of engineered wood products calculated from test values.

This document presents methods for the determination of

a) characteristic value of material properties, where the determined property is multiplied by a geometric parameter to give a component capacity or component stiffness, or

b) characteristic value of component properties directly, where the determined property is a component capacity or component stiffness.

This document presents methods for determination of

a) characteristic value of mean-based properties, and

b) characteristic value of 5th percentile-based properties.

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.

ISO 12122-1:2014, *Timber structures — Determination of characteristic values — Part 1: Basic requirements*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 12122-1 and the following apply.

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

— IEC Electropedia: available at http://www.electropedia.org/

— ISO Online browsing platform: available at http://www.iso.org/obp

3.1
engineered wood product
item manufactured from wood, namely plywood, oriented strand board, I beams, laminated veneer lumber or structural insulated panel walls

Note 1 to entry: These products that are defined in ISO 12465, ISO 16894, ISO 22389-1, ISO 22390 and ISO 22452.

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