
**Timber structures — Determination
of characteristic values —**

**Part 3:
Glued laminated timber**

*Structures en bois — Détermination des valeurs caractéristiques —
Partie 3: Exigences pour les bois lamellé-collé*

Sample Document

get full document from standards.iteh.ai



Sample Document

get full document from standards.iteh.ai



COPYRIGHT PROTECTED DOCUMENT

© ISO 2016, Published in Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

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

Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Symbols and abbreviated terms	1
5 Reference population	1
6 Sampling	2
6.1 Sampling method.....	2
6.2 Sample size.....	2
7 Sample conditioning	2
8 Test data	2
8.1 Test method.....	2
8.2 Test data compatible with product description.....	3
8.3 Failure modes.....	3
9 Evaluation of characteristic values for structural properties	3
9.1 Structural properties.....	3
9.2 Characteristic modulus of elasticity or stiffness.....	3
9.3 Characteristic values of strength or capacity.....	3
9.3.1 Characteristic bearing strength.....	3
9.3.2 Other characteristic values for strength or capacity based on the 5th percentile test value.....	3
10 Report	3
Annex A (informative) Commentary	4
Annex B (informative) Analytical models for determining characteristic properties of glued laminated timber	8
Bibliography	9

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*.

ISO 12122 consists of the following parts, under the general title *Timber structures — Determination of characteristic values*:

- *Part 1: Basic requirements*
- *Part 2: Sawn timber*
- *Part 3: Glued laminated timber*
- *Part 4: Engineered wood products¹⁾*
- *Part 6: Large components and assemblies¹⁾*

The following parts are under preparation:

- *Part 5: Mechanical connections*

1) To be published.

Introduction

This part of ISO 12122 sets out a framework for establishing characteristic values from test results on a sample drawn from a clearly defined reference population of glued laminated timber. The characteristic value is an estimate of the property of the reference population with a consistent level of confidence prescribed in this part of ISO 12122.

This part of ISO 12122 is to be used in conjunction with ISO 12122-1.

This part of ISO 12122 permits the evaluation of characteristic values on testing on commercial sized specimens of glued laminated timber. Where the characteristic values are derived using calculations based on laminate structural properties, this part of ISO 12122 does not apply, but [Annex B](#) references other methods for estimating characteristic values.

In some cases, characteristic values determined in accordance with this part of ISO 12122 may be modified to become a design value.

This part of ISO 12122 has the following annexes:

- [Annex A](#) presents a commentary on this part of ISO 12122;
- [Annex B](#) presents information on analytical models for determining characteristic values of glued laminated timber.

Sample Document

get full document from standards.iteh.ai