

INTERNATIONAL STANDARD

ISO
22390

Second edition
2020-03

Timber structures — Laminated veneer lumber — Structural properties

Structures en bois — Lamibois — Propriétés structurelles

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

[ISO 22390:2020](#)

<https://standards.iteh.ai/catalog/standards/iso/529d9513-9a49-48df-8be5-6cd080df774e/iso-22390-2020>



Reference number
ISO 22390:2020(E)

© ISO 2020

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

[ISO 22390:2020](#)

<https://standards.iteh.ai/catalog/standards/iso/529d9513-9a49-48df-8be5-6cd080df774e/iso-22390-2020>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2020

All rights reserved. Unless otherwise specified, or required in the context of its implementation, 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
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Fax: +41 22 749 09 47
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Requirements	3
4.1 Veneers	3
4.2 Bonding quality	3
4.3 Specimen dimension measurement accuracy	4
5 Test methods	4
5.1 General	4
5.2 Edgewise bending strength	5
5.3 Flatwise bending strength	5
5.4 Tension strength parallel to the grain	5
5.5 Compression strength parallel to the grain	6
5.6 Shear strength (edge) related to edgewise bending	6
5.7 Shear strength (flat) related to flatwise bending	6
5.8 Compression strength perpendicular to the grain	6
6 Stiffness	7
6.1 General	7
6.2 Modulus of elasticity in edgewise bending	7
6.3 Modulus of elasticity in flatwise bending	7
6.4 Modulus of elasticity in tension parallel to the grain	7
6.5 Modulus of elasticity in compression parallel to the grain	8
7 Other physical characteristics	8
7.1 Density	8
7.2 Moisture content	8
7.3 Species equivalency for connection properties	8
7.4 Creep and duration of load effects	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 of the voluntary nature of standards, 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 www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 165, *Timber structures*.

This second edition cancels and replaces the first edition (ISO 22390:2010), which has been technically revised.

The main changes compared to the previous edition are as follows:

- the specimen dimension measurement accuracy in [4.3](#) and
- routine update of the standard.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

Laminated veneer lumber (LVL) is being produced in many countries under different national standards and these products are being exported from one country to another. While the national standards have many similarities, there are also many areas of dissimilarity. Thus, there is a need for the development of this International Standard to establish consistency between these standards in order to ensure the suitability of LVL for structural end-use applications, regardless of the country of manufacture or end use. It is valuable for the industry, consumers, governments and distributors.

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

[ISO 22390:2020](#)

<https://standards.iteh.ai/catalog/standards/iso/529d9513-9a49-48df-8be5-6cd080df774e/iso-22390-2020>

