INTERNATIONAL STANDARD

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Timber structures — Glued laminated timber — Method of test for shear strength of glue lines

Structures en bois — Bois lamellé-collé — Méthode d'essai de cisaillement des plans de collage

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ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web 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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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.

ISO 12579 was prepared by Technical Committee ISO/TC 165, *Timber structures*.

Introduction

This International Standard was developed by TC 165 as a production quality-control test to be used for structural glulam. It is meant to be used in conjunction with ISO 12578 and to be applied to each production batch. The frequency of testing and the pass/fail criteria are detailed in ISO 12578. There is nothing, in principle, that would prevent the test method from being applied to non-structural glulam.

Timber structures — Glued laminated timber — Method of test for shear strength of glue lines

1 Scope

This International Standard specifies a production quality-control test method for measuring the shear strength of the glue line of glued laminated timber.

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.

ISO 12578, *Timber structures — Glued laminated timber — Component performance and production requirements*

3 Terms and definitions

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

3.1
glued laminated timber
glulam
structural member formed by bonding together timber laminations with the grain running essentially parallel

3.2
test sample
one or more test specimens taken from a press load or production lot detailed in ISO 12578

3.3
test specimen
test piece of rectangular prismatic or cylindrical form

See Figures 2 to 5.

3.4
wood failure
rupture in or between wood fibres

3.5
wood-failure percentage
percentage of the wood-failure area in relation to the total sheared area