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Physical and mechanical properties of wood — Test methods for small clear wood specimens —

Part 5:
Determination of strength in compression perpendicular to grain

Propriétés physiques et mécaniques du bois — Méthodes d'essais sur petites éprouvettes de bois sans défauts —

Partie 5: Détermination de la résistance en compression perpendiculaire au fil

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Physical and mechanical properties of wood – Test methods for small clear specimens –

Part 5:

Determination of strength in compression perpendicular to grain

(Revision of ISO 3132: 1975)

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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 w w w.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 w w w.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 WTO principles in the Technical Barriers to Trade (TBT), see the following URL: Foreword — Supplementary information.

The committee responsible for this document is ISO/TC 218, Timber.

This first edition of ISO 13061-5 cancels and replaces ISO 3132:1975, which has been technically revised with regards to the sizes, moisture content of test pieces, and adjustment for moisture content.

ISO 13061 consists of the following parts, under the general title *Physical and mechanical properties of wood — Test methods for small clear specimens*:

— *Part 1: Determination of moisture content for physical and mechanical tests*

— *Part 2: Determination of density for physical and mechanical tests*

— *Part 3: Determination of ultimate strength in static bending*

— *Part 4: Determination of modulus of elasticity in static bending*

— *Part 6: Determination of ultimate tensile stress parallel to grain*

— *Part 7: Determination of ultimate tensile stress perpendicular to grain*

The following are under preparation:

— *Part 5: Determination of strength in compression perpendicular to grain*

— *Part 10: Determination of impact bending strength*

— *Part 11: Determination of resistance to impact indentation*

— *Part 12: Determination of static hardness*

— *Part 13: Determination of radial and tangential shrinkage*

— *Part 14: Determination of volumetric shrinkage*

— *Part 15: Determination of radial and tangential swelling*

— *Part 16: Determination of volumetric swelling*

— *Part 17: Determination of strength in compression parallel to grain*

Introduction

The main purpose of this International Standard is to establish the common international point of member countries of the International Organization for Standardization (ISO), concerning testing methods for small clear wood specimens and general requirements for determining physical and mechanical properties of wood.

Physical and mechanical properties of wood — Test methods for small clear specimens —

Part 5:

Determination of strength in compression perpendicular to grain

1 Scope

This part specifies a method for the determination of strength in compression perpendicular to the grain (stress at proportional limit or at another specified deformation level), the load being applied to the whole surface of the test piece in the radial or tangential direction.

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 3129, *Wood – Sampling methods and general requirements for physical and mechanical tests*

ISO 13061-1, *Physical and mechanical properties of wood – Test methods for small clear specimen – Part 1: Determination of moisture content for physical and mechanical tests*

ISO 13061-2, *Physical and mechanical properties of wood – Test methods for small clear specimen – Part 2: Determination of density for physical and mechanical tests*

ISO 24294, *Timber – Round and sawn timber – Vocabulary*

3 Terms and definitions

For the purpose of this International Standard, the definitions contained in ISO 24294 apply.

4 Principle

This International Standard specifies a method for determining the strength in compression