
**Laminate floor coverings —
Determination of locking strength for
mechanically assembled panels**

Revêtements de sol stratifiés — Détermination de la résistance à la traction des lames assemblées mécaniquement



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Foreword

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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).

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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 219, *Floor coverings*.

This third edition cancels and replaces the second edition (ISO 24334:2014), which has been technically revised.

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

- addition of a note in the Scope,
- change in [7.4.3](#) in order to specify that pulling speed may also be performed at 5 mm/min.

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.

Laminate floor coverings — Determination of locking strength for mechanically assembled panels

1 Scope

This document specifies a method for determination of the locking strength of joints between laminate floor covering panels which are assembled with both vertical and horizontal mechanical locking systems.

NOTE This method is also applicable to other mechanically assembled panels, e.g. modular multilayer floorings.

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 7500-1, *Metallic materials — Calibration and verification of static uniaxial testing machines — Part 1: Tension/compression testing machines — Calibration and verification of the force-measuring system*

3 Terms and definitions

No terms and definitions are listed in this document.

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

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

4 Principle

Mechanically assembled panels with mechanical locking systems are pulled apart to an opening of 0,20 mm or until the lock breaks.

5 Apparatus

5.1 Tensile testing machine, which shall be verified and calibrated in accordance with ISO 7500-1 and conforming to class 3 for the force range which is applied by the locking strength measurement.

5.2 Measuring instrument (sliding calliper) with an accuracy of 0,1 mm, to determine the length, width and thickness of the specimen.

5.3 Saw to cut down the specimen.

5.4 Balance with an accuracy of 0,1 g.

5.5 External extensometer or optical measurements with an accuracy of 0,01 mm.