



BSI Standards Publication

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

National foreword

This British Standard is the UK implementation of ISO 24334:2019. It supersedes BS ISO 24334:2014, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee PRI/60, Resilient and Laminate Floor Coverings.

A list of organizations represented on this committee can be obtained on request to its secretary.

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**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*



Reference number
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Contents

Page

Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principle	1
5 Apparatus	1
6 Sampling and conditioning of panels	2
7 Testing	2
7.1 Cutting of the short panel sides.....	2
7.2 Cutting of the long panel sides.....	3
7.3 Assembling of test specimens.....	4
7.3.1 Assembling of short side specimens.....	4
7.3.2 Assembling of long side specimens.....	5
7.4 Tensile testing.....	6
7.4.1 General.....	6
7.4.2 Preparation.....	6
7.4.3 Procedure.....	6
8 Repetition	7
9 Expression of results	7
10 Test report	7

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 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.