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Interested committees:

Title: Draft BS EN ISO 4918 Resilient, textile, laminate and modular mechanical locked floor coverings - Castor chair test.

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## Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

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## Submission of Comments

- **Annotated drafts are not acceptable and will be rejected.**
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## Template for comments and secretariat observations

|                  |                        |
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| 1  | 2                                          | (3)                          | 4               | 5                                                                                                                                  | (6)                                                                      | 7                                                  |
|----|--------------------------------------------|------------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------|
| MB | Clause No./ Subclause No./Annex (e.g. 3.1) | Paragraph/ Figure/Table/Note | Type of comment | Comment (justification for change) by the MB                                                                                       | Proposed change by the MB                                                | Secretariat observations on each comment submitted |
|    | 3.1                                        | Definition 1                 | ed              | Definition is ambiguous and needs clarifying.                                                                                      | Amend to read '...so that the mains connector to which no connection...' |                                                    |
|    | 6.4                                        | Paragraph 2                  | te              | The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK. | Delete reference to UV photometer.                                       |                                                    |



# DRAFT International Standard

## ISO/DIS 4918

### Resilient, textile, laminate and modular mechanical locked floor coverings — Castor chair test

*Revêtements de sol textiles, résilients ou stratifiés — Essai à  
l'appareil à roulettes*

ICS: 97.150

ISO/TC 219

Secretariat: **NBN**

Voting begins on:  
**2025-06-24**

Voting terminates on:  
**2025-09-16**

This document is circulated as received from the committee secretariat.

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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 [www.iso.org/directives](http://www.iso.org/directives)).

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This document was prepared by Technical Committee ISO/TC 219, *Floor coverings*.

This third edition cancels and replaces the second edition (ISO 4918:2016/Amd 1:2018), which has been technically revised. This edition also replaces EN 985:2001.

The main changes are as follows:

- adding modular mechanical locked floor coverings
- better description of the machine
- better description of the fastening methods
- methods how to test MMF

A list of all parts in the ISO 4918 series can be found on the ISO website.

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](http://www.iso.org/members.html).

## Introduction

This test is a method for determining the change of appearance and stability of a textile floor covering or any damage caused by detachment of layers, opening of joints, or crazing of a resilient, laminate or modular mechanical locked floor covering under the movement of a swivel castor chair. It is important that this measurement is made under a well described fixation method.



# Resilient, textile, laminate and modular mechanical locked floor coverings — Castor chair test

## 1 Scope

This document specifies methods for determining the change of appearance and stability of a textile floor covering or any damage caused by detachment of layers, opening of joints, or crazing of a resilient, laminate or modular mechanical locked floor covering under the movement of a swivel castor chair.

## 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 139, *Textiles — Standard atmospheres for conditioning and testing*

ISO 1957, *Machine-made textile floor coverings — Selection and cutting of specimens for physical tests*

ISO 2424, *Textile floor coverings — Vocabulary*

ISO 9405, *Textile floor coverings — Assessment of changes in appearance*

EN 12466, *Resilient floor coverings — Vocabulary*

EN 12529, *Castors and wheels — Castors for furniture — Castors for swivel chairs — Requirements*

EN 16511, *Modular mechanical locked floor coverings (MMF) — Specification, requirements and test method for multilayer modular panels for floating installation*

ASTM D7330:2015, *Standard Test Method for Assessment of Surface Appearance Change in Pile Floor Coverings Using Standard Reference Scales*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 2424 and EN 12466 apply.

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

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

## 4 Principle

A floor covering, including one or more joints, treated or welded where necessary, is submitted for a prescribed number of cycles to the action of three castors. The castors move in epicyclical paths with multiple changes of direction, stops and starts, and the frequency of passage varies from area to area.

For textile floor coverings, three different assessment methods are specified:

- a) the change in appearance is assessed after 5 000 cycles and 25 000 cycles in accordance with ISO 9405 (Test A) or ASTM D7330,