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**Textile floor coverings —  
Determination of mass loss, fibre bind  
and stair nosing appearance change  
using the Lisson Tretrad machine**

*Revêtements de sol textiles — Détermination de la perte de masse,  
de la sensibilité au défibrage et du changement d'aspect au nez de  
marche à l'aide la machine Lisson Tretrad*



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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)).

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](http://www.iso.org/patents)).

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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 219, *Floor coverings*.

This second edition cancels and replaces the first edition (ISO 12951:1999), which has been technically revised.

# Textile floor coverings — Determination of mass loss, fibre bind and stair nosing appearance change using the Lisson Tretrad machine

## 1 Scope

This International Standard specifies four methods of test of textile floor coverings (with or without an underlay, see [Clause 9](#)) using the Lisson Tretrad machine.

- test A: determination of mass loss of textile floor coverings, also used to assess fibre bind of synthetic pile carpets;
- test B: determination of stair nosing appearance change of textile floor coverings;
- test C: determination of fibre bind on synthetic loop pile carpets;
- test D: determination of fibre bind (hairiness) on needled floor coverings and floor coverings without pile.

## 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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 1765, *Machine-made textile floor coverings — Determination of thickness*

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

ISO 2424, *Textile floor coverings — Vocabulary*

ISO 8543, *Textile floor coverings — Methods for determination of mass*

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

EN 1307, *Textile floor coverings — Classification of pile carpets*

## 3 Terms and definitions

For the purposes of this International Standard, the following terms and definitions, in addition to those in ISO 2424, apply:

### 3.1

#### mass loss per unit area

$m_v$

difference between the sample mass before and after the wear test, related to the tested area

Note 1 to entry: See [Clause 10](#).