
Textile floor coverings — Installation practices — General

Revêtements de sol textiles — Pratiques d'installation — Généralités



This document is a preview generated by ERS



COPYRIGHT PROTECTED DOCUMENT

© ISO 2020

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Fax: +41 22 749 09 47
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

Contents

Page

Foreword	v
Introduction	vi
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Materials	4
4.1 Textile floor coverings	4
4.2 Underlays	4
4.2.1 Underlays	4
4.2.2 Soft underlays	4
4.3 Adhesives	4
4.4 Carpet gripper	5
5 Pre-installation requirements	5
5.1 Site inspection and report — Commercial installations	5
5.1.1 Inspection by contractor	5
5.1.2 Report by contractor	5
5.2 Installation site — Residential installations	6
5.3 Exchange of information	6
5.3.1 General	6
5.3.2 Commercial installations	6
5.3.3 Residential installations	8
5.4 Conditioning of floor coverings and subfloor	8
5.4.1 General	8
5.4.2 Commercial installations	8
5.4.3 Residential installations	9
6 Installation methods	9
6.1 Planning, general layout, and dye batch continuity	9
6.2 Pile lay, pattern matching, dye batch continuity, and finishing	11
6.3 Seaming and joining	11
6.3.1 General	11
6.3.2 Methods of seaming and cross joining	12
6.4 Stretching	13
6.5 Method of installation using the carpet gripper system	13
6.5.1 General	13
6.5.2 Carpet gripper	13
6.5.3 Procedure	13
6.6 Method of installation using the direct-stick system	14
6.6.1 General	14
6.6.2 Ambient temperature	14
6.6.3 Laying procedure	14
6.7 Method of installation using the double-bond system	15
6.8 Method of installation using the pre-applied underlay adhesive system	16
6.9 Method of installation using the hook and loop system	16
6.10 Installation on stairs	17
6.10.1 General	17
6.10.2 Method of installation using the carpet gripper system	17
6.10.3 Method of installation using the direct-stick system	17
6.10.4 Method of installation using the double-bond system	18
6.10.5 Method of installation using the hook and loop system	18
6.11 Completion of installation	18
Annex A (normative) Site information to be requested by the contractor from the purchaser	19

Annex B (informative) Determining the dryness and alkalinity of subfloors	21
Annex C (informative) Principles of stretching textile floor coverings	25
Annex D (informative) Guidelines to trowel selection.....	31
Annex E (normative) Soft underlays for textile floor coverings.....	33
Annex F (normative) Method for the determination of compression characteristics.....	35
Annex G (normative) Method for the determination of resistance to breaking and cracking.....	39
Bibliography	41

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 219, *Floor coverings*.

This first edition of ISO 18167 cancels and replaces ISO/PAS 18167:2014, which has been technically revised.

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

- update of methods and standards referenced in [Annex E](#).

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.

Introduction

The objective of this document is to provide the contractors, manufacturers, suppliers, and purchasers of textile floor coverings and others, for example technical educators, with procedures to enable the provision of correctly installed textile floor coverings.

Textile floor coverings — Installation practices — General

1 Scope

This document sets out the requirements for installing textile floor coverings (carpets). It gives details of the work necessary in preparing subfloor surfaces together with the procedures that are to be adopted where textile floor coverings are laid over various types of subfloors and underlays and where subfloor heating units are installed.

NOTE This document addresses needle insertion tufted, woven, fusion bonded, fibre bonded, knitted, non-woven, felted, and flocked textile floor coverings.

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 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 2094, *Textile floor coverings — Determination of thickness loss under dynamic loading*

ISO 2424, *Textile floor coverings — Vocabulary*

ISO 3415, *Textile floor coverings — Determination of thickness loss after brief, moderate static loading*

ISO 9073-3, *Textiles — Test methods for nonwovens — Part 3: Determination of tensile strength and elongation*

3 Terms and definitions

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

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/>

3.1

adhesive

substance that dries to a film capable of holding materials together by surface attachment

Note 1 to entry: Applying adhesive to the floor is normally accomplished with a *trowel* (3.17), airless spray, or roller

3.2

contractor

firm or person authorized by the *purchaser* (3.9) to carry out the laying of the textile floor covering

3.3

crotch

junction of the lower edge of the riser with the rearmost edge of the stair tread