



BSI Standards Publication

Resilient and textile floor coverings — Determination of side length, edge straightness and squareness of tiles and planks

National foreword

This British Standard is the UK implementation of EN ISO 24342:2024. It is identical to ISO 24342:2024. It supersedes BS EN ISO 24342:2018, which is withdrawn.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 committee manager.

Throughout the voting periods for this standard, the UK Committee raised the issue of the tolerance quoted for the 90° angle referenced in Subclauses 5.1, 5.3 and 5.5. This tolerance is given as 0,01°.

A number of manufacturers and calibration bodies were approached and, whilst they said they could provide the 0,01° tolerance, their best uncertainty level associated with the measurement of the angle was also 0,01°. When this uncertainty is combined with their potential tolerance, the minimum that could be claimed would be 0,02°.

Any laboratory accredited to ISO/IEC 17025:2017, *General requirements for the competence of testing and calibration laboratories* has to be able to demonstrate to their accreditation body that their equipment meets the requirements of any standard on their schedule.

Clause 10 of this standard includes a requirement that the test report contains information on any deviation from the standard that can affect the test results. Therefore, users of this standard are encouraged to include in any relevant test report a statement that the equipment used met the required 0,01° angle tolerance without the consideration of any associated best uncertainty level.

Contractual and legal considerations

This publication has been prepared in good faith, however no representation, warranty, assurance or undertaking (express or implied) is or will be made, and no responsibility or liability is or will be accepted by BSI in relation to the adequacy, accuracy, completeness or reasonableness of this publication. All and any such responsibility and liability is expressly disclaimed to the full extent permitted by the law.

This publication is provided as is, and is to be used at the recipient's own risk.

The recipient is advised to consider seeking professional guidance with respect to its use of this publication.

This publication is not intended to constitute a contract. Users are responsible for its correct application.

© The British Standards Institution 2024
Published by BSI Standards Limited 2024

ISBN 978 0 539 23271 4

ICS 97.150

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 July 2024.

Amendments/corrigenda issued since publication

Date	Text affected
------	---------------

English Version

Resilient and textile floor-covering - Determination of side length, edge straightness and squareness of tiles and planks (ISO 24342:2024)

Revêtements de sol résilients ou textiles -
Détermination de la longueur des bords, de la rectitude
des arêtes et de l'équerrage des dalles et des lames (ISO
24342:2024)

Elastische und textile Bodenbeläge - Bestimmung der
Kantenlänge, Rechtwinkligkeit und Geradheit von
Platten und Dielen (ISO 24342:2024)

This European Standard was approved by CEN on 28 April 2024.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

European foreword

This document (EN ISO 24342:2024) has been prepared by Technical Committee ISO/TC 219 "Floor coverings" in collaboration with Technical Committee CEN/TC 134 "Resilient, textile, laminate and modular mechanical locked floor coverings" the secretariat of which is held by NBN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by January 2025, and conflicting national standards shall be withdrawn at the latest by January 2025.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN ISO 24342:2018.

Any feedback and questions on this document should be directed to the users' national standards body/national committee. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

Endorsement notice

The text of ISO 24342:2024 has been approved by CEN as EN ISO 24342:2024 without any modification.

Contents

Page

Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principle	2
5 Apparatus	2
5.1 Reference plate	2
5.2 Rigid metal or glass plate	3
5.3 Flat bedplate apparatus	3
5.4 Dial gauge, calliper gauge and/or thickness gauges	5
5.5 Movable dial gauges apparatus	5
6 Sampling and selection of specimens	6
7 Atmosphere for conditioning and testing	6
7.1 Resilient floor coverings	6
7.2 Textile floor coverings	7
8 Procedure	7
8.1 General	7
8.2 Side length	7
8.2.1 Gauge method	7
8.2.2 Movable dial gauge method	7
8.2.3 Sliding calliper method	8
8.3 Edge straightness	8
8.3.1 Thickness gauge method	8
8.3.2 Movable dial gauge method	8
8.4 Squareness	9
8.4.1 Thickness gauge method	9
8.4.2 Movable dial gauge method	9
9 Calculation and expression of the results	9
9.1 For flat bedplate apparatus (5.3) and thickness gauge (5.4)	9
9.1.1 Side length	9
9.1.2 Edge straightness	9
9.1.3 Squareness	9
9.2 For the movable dial gauge apparatus	9
9.2.1 Tiles	9
9.2.2 Planks	9
9.3 For the sliding calliper apparatus	10
10 Test report	10
Bibliography	12