BS EN 16511:2023+A1:2025

BSI Standards Publication

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

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The start and finish of text introduced or altered by amendment is indicated in the text by tags. Tags indicating changes to CEN text carry the number of the CEN amendment. For example, text altered by CEN amendment A1 is indicated by ▌A1⟩ ⟨A1▌.

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.

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English Version

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

Revêtements de sol modulaires à verrouillage mécanique (MMF) - Spécifications, exigences et méthodes d'essai pour panneaux multicouches modulaires pour pose flottante

Modulare mechanisch verriegelnde Bodenbeläge (MMF) - Spezifikation, Anforderungen und Prüfverfahren für mehrschichtige modulare Paneele für die schwimmende Verlegung

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Full document details: BS EN 16511:2023+A1:2025

Contents

Page

European foreword 3
1 Scope 4
2 Normative references 4
3 Terms and definitions 5
4 Symbols 7
5 Requirements 7
5.1 General requirements for the panels 7
5.2 Classification requirements 8
6 Marking and packaging 12
6.1 Marking 12
6.2 Packaging 12
Annex A (informative) Optional properties 13
Annex B (informative) Test method for the determination of the Modulus of Elasticity and classification of the flexibility 14
Bibliography 15

Documents
Document Sharing Hub
Full document details: BS EN 16511:2023+A1:2025

European foreword

This document (EN 16511:2023+A1:2025) has been prepared by Technical Committee CEN/TC 134 “Resilient, textile and laminate 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of an identical text or by endorsement, at the latest by November 2025, and conflicting national standards shall be withdrawn at the latest by November 2025.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 includes Amendment 1, approved by CEN on 9 April 2025.

This document supersedes [A1⟩ EN 16511:2023 ⟨A1].

The start and finish of text introduced or altered by amendment is indicated in the text by tags [A1⟩ ⟨A1].

The main changes compared to the previous edition are listed below:

a) title changed;

b) terms and definitions added in Clause 3;

c) EN 17539 included as test method for general requirements in 5.1;

d) light fastness and dimensional stability added as general requirements in 5.1;

e) classification requirements divided in floorings with wear layers (Table 2) and floorings with non-film-forming oil or wax finishes (Table 3);

f) additional technical characteristics for moisture resistance added as Table 4;

g) Annex B presenting a test method for the classification of the flexibility added.

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1 Scope

This document specifies the characteristics of multilayer mechanical locked floor covering with a wear-resistant and decorative surface layer supplied in panels (either tile or plank form). The floor panels are considered suitable for domestic and commercial levels of use and designed for floating installation.

This document does not apply to resilient floor panels for loose-laying according to EN ISO 20326, to multilayer wood floorings according to EN 13489, to wood veneer floor coverings according to EN 14354, to laminate floor covering according to EN 13329, EN 14978 and EN 15468 nor to products specified in EN ISO 10581, EN ISO 10582, EN ISO 24011, EN 12104 and ISO 14486.

This document is applicable to areas which are subject to frequent wetting, e.g. bathrooms, laundry rooms or saunas, only if specified by the producer.

This document also includes requirements for marking and packaging.

In Annex A (informative), optional properties are given. In Annex B (informative), a test method for the classification of the flexibility is given.

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.

EN 317, *Particleboards and fibreboards — Determination of swelling in thickness after immersion in water*

EN 438-2, *High-pressure decorative laminates (HPL) — Sheets based on thermosetting resins (usually called laminates) — Part 2: Determination of properties*

[A1⟩ EN 13329 ⟨A1], *Laminate floor coverings — Elements with a surface layer based on aminoplastic thermosetting resins — Specifications, requirements and test methods*

[A1⟩ EN 14354:2017, *Wood-based panels — Wood veneer floor coverings* ⟨A1]

EN 16094, *Laminate floor coverings — Test method for the determination of micro-scratch resistance*

EN 17539, *Modular mechanical locked floor coverings (MMF) — Determination of geometrical characteristics*

EN 20105-A02, *Textiles — Tests for colour fastness — Part A02: Grey scale for assessing change in colour (ISO 105-A02)*

EN ISO 105-B02:2014, *Textiles — Tests for colour fastness — Part B02: Colour fastness to artificial light: Xenon arc fading lamp test (ISO 105-B02:2014)*

EN ISO 178:2019, *Plastics — Determination of flexural properties (ISO 178:2019)*

EN ISO 4918, *Resilient, textile and laminate floor coverings — Castor chair test (ISO 4918)*

EN ISO 10874, *Resilient, textile and laminate floor coverings — Classification (ISO 10874)*

EN ISO 16581, *Resilient and laminate floor coverings — Determination of the effect of simulated movement of a furniture leg (ISO 16581)*

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