

STN	Modulárne mechanicky uzamykatel'né podlahové krytiny (MMF) Špecifikácia, požiadavky a skúšobná metóda pre viacvrstvové modulárne panely na plávajúcu inštaláciu	STN EN 16511+A1 80 4461
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Modular mechanical locked floor coverings (MMF) - Specification, requirements and test method for multilayer modular panels for floating installation

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 08/25

Obsahuje: EN 16511:2023+A1:2025

Oznámením tejto normy sa ruší
STN EN 16511 (80 4461) zo septembra 2023

140809

Úrad pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky, 2025
Slovenská technická norma a technická normalizačná informácia je chránená zákonom č. 60/2018 Z. z. o technickej normalizácii v znení neskorších predpisov.

EUROPEAN STANDARD

EN 16511:2023+A1

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2025

ICS 97.150

Supersedes EN 16511:2023

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

This European Standard was approved by CEN on 10 April 2023 and includes Amendment 1 approved by CEN on 9 April 2025.

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

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EN 16511:2023+A1:2025 (E)

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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of an identical text or by endorsement, at the latest by November 2025, and conflicting national standards shall be withdrawn at the latest by November 2025.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.

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

According to the CEN-CENELEC Internal Regulations, the national standards organisations 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.

EN 16511:2023+A1:2025 (E)**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)*

EN ISO 23999, *Resilient floor coverings — Determination of dimensional stability and curling after exposure to heat (ISO 23999)*

EN ISO 24343-1, *Resilient and laminate floor coverings — Determination of indentation and residual indentation — Part 1: Residual indentation (ISO 24343-1)*

ISO 4760:2022, *Laminate Flooring — Topical Moisture Resistance — Assembled joint*

ISO 24334, *Laminate floor coverings — Determination of locking strength for mechanically assembled panels*

ISO 24336, *Laminate floor coverings — Determination of thickness swelling after partial immersion in water*

ISO 24338, *Laminate floor coverings — Determination of abrasion resistance*

ISO 24339, *Laminate and textile floor coverings — Determination of dimensional variations after exposure to humid and dry climate conditions*

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