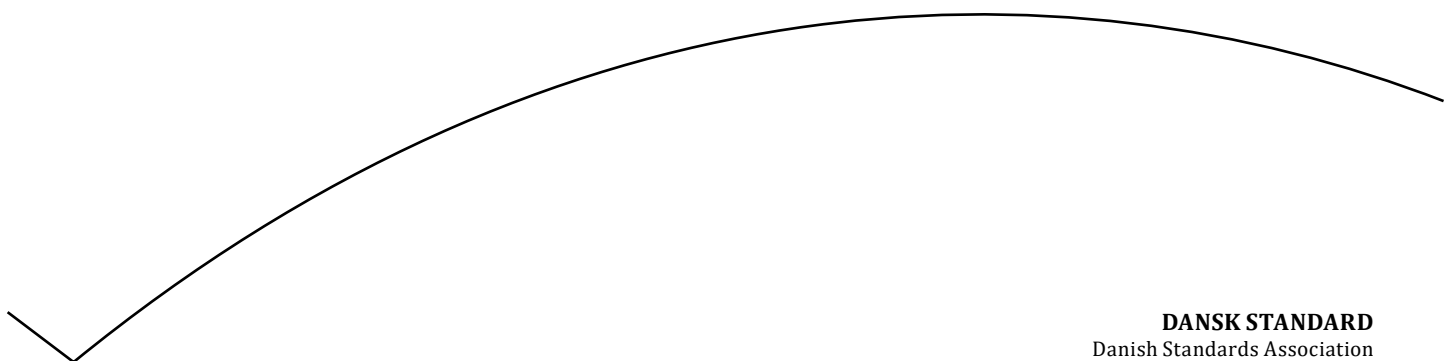


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# Laminatgulvbelægninger – Specifikationer, krav og prøvningsmetoder

Laminate floor coverings – Specifications, requirements and test methods



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EN 14978:2016+A1:2021

English Version

## Laminate floor coverings - Specifications, requirements and test methods

Revêtements de sol stratifiés - Spécifications,  
exigences et méthodes d'essaiLaminatböden - Spezifikationen,  
Anforderungen und Prüfverfahren

This European Standard was approved by CEN on 27 November 2023.

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## European foreword

This document ([EN 13329:2023](#)) 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of an identical text or by endorsement, at the latest by June 2024, and conflicting national standards shall be withdrawn at the latest by June 2024.

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 13329:2016+A2:2021](#), [EN 14978:2016+A1:2021](#) and [EN 15468:2016+A1:2021](#).

The main changes compared to [EN 13329:2016+A2:2021](#), [EN 14978:2016+A1:2021](#) and [EN 15468:2016+A1:2021](#) are listed below:

- [EN 13329](#), [EN 14978](#) and [EN 15468](#) merged;
- [Annex A](#) and [Annex B](#) on determination of geometrical characteristics replaced by reference to [EN 17539](#) in [Table 1](#);
- Annex E, Annex F and Annex G on determination of abrasion resistance replaced by reference to [ISO 24338](#) in [Table 2](#);
- specification of underlay in [4.2](#) modified;
- in [Table 2](#) requirements for impact resistance with large ball reduced due to modified underlay;
- in [Table 2](#) castor chair test according to [EN 425](#) replaced by test according to [EN ISO 4918](#) with adjusted requirements;
- in [Table 3](#) water resistance according to [ISO 4760](#) introduced as additional technical characteristic;
- information on recycling added as [4.4](#) and [Annex D](#).

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.

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# Laminate floor coverings – Specifications, requirements and test methods

## 1 Scope

This document specifies characteristics, requirements and test methods for laminate floor coverings with a surface layer as defined in [3.2](#) to [3.5](#). It also specifies requirements for marking and packaging.

It includes a classification system, based on [EN ISO 10874](#), giving practical requirements for areas of use and levels of use, to indicate where laminate floor coverings will give satisfactory service and to encourage the consumer to make an informed choice.

Laminate floor coverings are generally designed for floating installations and are considered for domestic and commercial levels of use, including domestic kitchens. This document does not specify requirements relating to the use in areas which are subjected to frequent wetting, such as bathrooms, laundry rooms or saunas. In general, laminate floor coverings can only be used in those areas when authorized by the manufacturer and under conditions described in the manufacturer's installation guidelines.

## 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 311](#), *Wood-based panels — Surface soundness — Test method*

[EN 318](#), *Wood based panels — Determination of dimensional changes associated with changes in relative humidity*

[EN 322](#), *Wood-based panels — Determination of moisture content*

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

[EN 16094](#), *Laminate floor coverings — Test method for the determination of micro-scratch resistance*

[EN 16354](#), *Laminate floor coverings — Underlays — Specification, requirements and test methods*

[EN 17368](#), *Laminate floor coverings — Determination of impact resistance with small ball*

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

[EN ISO 2813](#), *Paints and varnishes — Determination of gloss value at 20°, 60° and 85° (ISO 2813)*

[EN ISO 4892-2:2013](#),<sup>1)</sup> *Plastics — Methods of exposure to laboratory light sources — Part 2: Xenon-arc lamps (ISO 4892-2:2013)*

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

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1) As impacted by EN ISO 4892-2:2013/A1:2021.

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[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 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*