

Laminate floor coverings - Elements with acrylic based surface layer, electron beam cured - Specifications, requirements and test methods

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

See Eesti standard EVS-EN 14978:2016 sisaldab Euroopa standardi EN 14978:2016 ingliskeelset teksti.	This Estonian standard EVS-EN 14978:2016 consists of the English text of the European standard EN 14978:2016.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
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English Version

**Laminate floor coverings - Elements with acrylic based  
surface layer, electron beam cured - Specifications,  
requirements and test methods**

Revêtements de sol stratifiés - Éléments à parement à  
base acrylique traités par des faisceaux d'électrons -  
Spécifications, exigences et méthodes d'essai

Laminatböden - Elemente mit einer  
elektronenstrahlgehärteten Deckschicht auf Acryl-  
Basis - Spezifikationen, Anforderungen und  
Prüfverfahren

This European Standard was approved by CEN on 27 November 2015.

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.

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**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

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## European foreword

This document (EN 14978:2016) 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of an identical text or by endorsement, at the latest by September 2016, and conflicting national standards shall be withdrawn at the latest by September 2016.

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 14978:2006.

Compared to EN 14978:2006 the following changes have been made:

- a) general definition for laminate floor coverings included;
- b) defined underlay for impact resistance test with the large diameter ball added;
- c) requirements for castor chair test changed;
- d) requirements for level of use 32 and 33 for floor coverings with a high gloss level added;
- e) test method and requirements for abrasion resistance for floor coverings with a high gloss level changed;
- f) requirements for cigarette resistance deleted;
- g) technical characteristic micro-scratch resistance added.

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

## 1 Scope

This European Standard specifies characteristics, requirements and test methods for laminate floor coverings with acrylic based surface layer, electron beam cured as defined in 3.1 and 3.2.

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. It also specifies requirements for marking and packaging.

Laminate floor coverings are considered for domestic and commercial levels of use, e.g. for use in domestic kitchens. This standard does not specify requirements related to areas that are subject to frequent wetting, such as bathrooms, laundry rooms or saunas.

## 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 322, *Wood-based panels - Determination of moisture content*

EN 424, *Resilient floor coverings - Determination of the effect of simulated movement of a furniture leg*

EN 425:2002, *Resilient and laminate floor coverings - Castor chair test*

EN 438 (all parts), *High-pressure decorative laminates (HPL) — Sheets based on thermosetting resins (Usually called Laminates)*

EN 13329:2016, *Laminate floor coverings — Elements with a surface layer based on aminoplastic thermosetting resins — Specifications, requirements and test methods*

EN 15468:2016, *Laminate floor coverings — Elements with directly applied printing and resin surface layer — Specifications, requirements and test methods*

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

CEN/TS 16354, *Laminate floor coverings - Underlays - Specification, requirements and test methods*

EN ISO 2813, *Paints and varnishes - Determination of gloss value at 20°, 60° and 85° (ISO 2813)*

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

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*