

**SLOVENSKI STANDARD
SIST EN 13329:2016+A1:2017/oprA2:2020
01-julij-2020**

Laminatne talne obloge - Elementi z zunanjim plastjo na osnovi aminoplastičnih termostabilnih smol - Specifikacije, zahteve in preskusne metode

Laminate floor coverings - Elements with a surface layer based on aminoplastic thermosetting resins - Specifications, requirements and test methods

Laminatböden - Elemente mit einer Deckschicht auf Basis aminoplastischer, wärmehärtbarer Harze - Spezifikationen, Anforderungen und Prüfverfahren

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Revêtements de sol stratifiés - Éléments dont la surface est à base de résines aminoplastes thermodurcissables - Spécifications, exigences et méthodes d'essai

[SIST EN 13329:2016+A1:2017/oprA2:2020](#)

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Ta slovenski standard je istoveten z: EN 13329:2016+A1:2017/prA2

ICS:

97.150 Talne obloge Floor coverings

SIST EN
13329:2016+A1:2017/oprA2:2020

en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

DRAFT
EN 13329:2016+A1:2017
prA2

July 2020

ICS 97.150

English Version

**Laminate floor coverings - Elements with a surface layer
based on aminoplastic thermosetting resins -
Specifications, requirements and test methods**

Revêtements de sol stratifiés - Éléments dont la surface
est à base de résines aminoplastes thermodurcissables
- Spécifications, exigences et méthodes d'essai

Laminatböden - Elemente mit einer Deckschicht auf
Basis aminoplastischer, wärmehärbarer Harze -
Spezifikationen, Anforderungen und Prüfverfahren

This draft amendment is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 134.

This draft amendment A2, if approved, will modify the European Standard EN 13329:2016+A1:2017. If this draft becomes an amendment, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for inclusion of this amendment into the relevant national standard without any alteration.

The STANDARD PREVIEW

This draft amendment was established by CEN 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.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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

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

EN 13329:2016+A1:2017/prA2:2020 (E)

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European foreword

This document (EN 13329:2016+A1:2017/prA2:2020) has been prepared by Technical Committee CEN/TC 134 "Resilient, textile and laminate floor coverings", the secretariat of which is held by NBN.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 13329:2016+A1:2017.

In comparison with the previous version EN 13329:2016+A1:2017 of the original edition EN 13329:2016, the new consolidated version EN 13329:2016+A2:2020 will contain the following technical modifications:

- Scope: replacement of the last paragraph;
- term 3.3 substrate: replacement of the definition;
- Table 2: change the requirements and test method for impact resistance: small ball and addition of footnote to table^d as clarification for testing, replacement of Table 2;
- Annex H: small ball test method has been deleted, replacement of Annex H.

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EN 13329:2016+A1:2017/prA2:2020 (E)**1 Modification to Clause 1, Scope**

Replace the last paragraph of the scope

"Laminate floor coverings are considered for domestic and commercial levels of use, including domestic kitchens. This standard does not specify requirements relating to areas which are subjected to frequent wetting, such as bathrooms, laundry rooms or saunas."

with

"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 Modification to term 3.3, substrate

Replace the definition

"core material of the laminate floor covering"

with

"core material of the laminate floor covering made of wood, as defined in EN 13756, for at least 65 % in mass".

3 Modification to 4.2, Classification requirements, Table 2

Replace Table 2 "

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Table 2 — Classification requirements and levels of use

Class:	Levels of use							Test method	
	Domestic			Commercial					
	Moderate	General	Heavy	Moderate	General	Heavy	Very Heavy		
21	22	23	31	32	33	34			
Abrasion resistance	AC1	AC2	AC3	AC4	AC5	AC 6		Annex E	
Impact resistance Small ball	≥ 8 N			≥ 12 N	≥ 15 N	≥ 20 N		Annex H	
Big ball	≥ 500 mm			≥ 750 mm	≥ 1 000 mm	≥ 1 600 mm			
Resistance to staining	4, (groups 1 and 2) 3, (group 3)	5, (groups 1 and 2) 4, (group 3)				5, (groups 1, 2 and 3)		EN 438 series	
Effect of a furniture leg	-	No damage shall be visible, when tested with foot type 0						EN 424	
Effect of a castor chair ^a	-	25 000 cycles, No damage ^a				25 000 cycles No damage ^a with type H wheels		EN 425:20 02 ^b	
Thickness swelling	≤ 20 % https://standards.iteh.ai/en/standard/sist-en-13329-2016a1-2017-pra2-2020	≤ 18 % https://standards.iteh.ai/en/standard/sist-en-13329-2016a1-2017-pra2-2020	≤ 15 % https://standards.iteh.ai/en/standard/sist-en-13329-2016a1-2017-pra2-2020		≤ 8 %			ISO 24336	
Locking strength	-	f _{l0,2} ≥ 1 kN/m (length) f _{s0,2} ≥ 2 kN/m (width)		f _{l0,2} ≥ 3,5 kN/m (length) f _{s0,2} ≥ 3,5 kN/m (width)				ISO 24334	
Surface soundness	≥ 1,0 N/mm ²	≥ 1,25 N/mm ²		≥ 1,50 N/mm ²				Annex D	
Dimensional stability	-	$\Delta_w \text{ avg}$, $\Delta_l \text{ avg}$: ≤ 0,15 % - 0,20 % ≤ C _{avg} c ≤ 0,25 % J _{L avg} , J _{S avg} : ≤ 0,15 mm h _{L avg} , h _{S avg} : ≤ 0,15 mm				Δ _{w avg} , Δ _{l avg} : ≤ 0,15 % - 0,20 % ≤ C _{avg} c ≤ 0,25 % J _{L avg} , J _{S avg} : ≤ 0,15 mm h _{L avg} , h _{S avg} : ≤ 0,15 mm		ISO 24339	

^a No visible damage on the surface of the assembled test area caused by detachment of layers, opening of joints, or crazing. Ignore any flattening or change in appearance, e.g. change in gloss.

^b Using soft castor wheels W PU (95 ± 5) Shore A except for class 34 wheels H PA (95 ± 5) Shore A.

^c Take the maximum of C_{avg} from wet climate (23°C, 85 % rel. hum) and the minimum of C_{avg} from dry climate (23°C, 30 % rel. hum.) for the evaluation.

"

with "

Table 2 — Classification requirements and levels of use

Class:	Levels of use								Test method		
	Domestic			Commercial							
	Moderate	General	Heavy	Moderate	General	Heavy	Very Heavy				
21	22	23	31	32	33	34					
Abrasion resistance	AC1	AC2	AC3		AC4	AC5	AC6	Annex E			
Impact resistance Small ball	$\geq 10 \text{ mm}$				$\geq 35 \text{ mm}$	$\geq 70 \text{ mm}$	$\geq 120 \text{ mm}$	EN 17368 ^d			
	$\geq 500 \text{ mm}$				750 mm	$\geq 1\,000 \text{ mm}$	$\geq 1\,600 \text{ mm}$	Annex H			
Resistance to staining	4, (groups 1 and 2) 3, (group 3)		5, (groups 1 and 2) 4, (group 3)				5, (groups 1, 2 and 3)	EN 438 series			
Effect of a furniture leg	-		No damage shall be visible, when tested with foot type 0						EN 424		
Effect of a castor chair ^a	-		25 000 cycles, No damage ^a			25 000 cycles No damage ^a with type H wheels		EN 425:2002 ^b			
Thickness swelling	$\leq 20 \%$		$\leq 18 \%$			$\leq 15 \%$	$\leq 8 \%$	ISO 24336			
Locking strength	-			$f_{l0,2} \geq 1 \text{ kN/m}$ (length) $f_{s0,2} \geq 2 \text{ kN/m}$ (width)		$f_{l0,2} \geq 3,5 \text{ kN/m}$ (length) $f_{s0,2} \geq 3,5 \text{ kN/m}$ (width)		ISO 24334			
Surface soundness	$\geq 1,0 \text{ N/mm}^2$			$\geq 1,25 \text{ N/mm}^2$		$\geq 1,50 \text{ N/m}$ m^2	Annex D				
Dimensional stability	-						$\Delta_{w \text{ avg}}$, Δ_l avg: $\leq 0,15 \%$ - $0,20 \% \leq C_{avg}$ $c \leq 0,25 \% J_L$ avg, $J_s \text{ avg: } \leq 0,15 \text{ mm}$ $h_L \text{ avg, } h_s$ avg: $\leq 0,15 \text{ m}$	ISO 24339			

Class:	Levels of use							Test method	
	Domestic			Commercial					
	Moderate	General	Heavy	Moderate	General	Heavy	Very Heavy		
21	22	23	31	32	33	34			

a No visible damage on the surface of the assembled test area caused by detachment of layers, opening of joints, or crazing. Ignore any flattening or change in appearance, e.g. change in gloss.
 b Using soft castor wheels W PU (95 ± 5) Shore A except for class 34 wheels H PA (95 ± 5) Shore A.
 c Take the maximum of Cavg from wet climate (23°C , 85 % rel. hum) and the minimum of Cavg from dry climate (23°C , 30 % rel. hum.) for the evaluation.
 d The small ball diameter test shall be carried out without underlay. The pre-attached underlay shall be removed.

4 Modification to Annex H, Determination of large ball impact resistance

Replace Annex H with the following:

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