

SLOVENSKI STANDARD

SIST EN 655:2011

01-september-2011

Nadomešča:
SIST EN 655:1999

Netekstilne talne obloge - Plošče iz stiskanega plutinega hrbtišča s polivinilkloridno uporabno vrhnjo plastjo - Specifikacija

Resilient floor coverings - Tiles of agglomerated composition cork with polyvinyl chloride wear layer - Specification

Elastische Bodenbeläge - Platten auf einem Rücken aus Presskork mit einer Polyvinylchlorid-Nutzschicht - Spezifikation

Revêtements de sol résilients - Dalles d'aggloméré de liège avec couche d'usure à base de polychlorure de vinyle - Spécifications

Ta slovenski standard je istoveten z: EN 655:2011

ICS:

97.150 Netekstilne talne obloge Non-textile floor coverings

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 655

April 2011

ICS 97.150

Supersedes EN 655:1996

English Version

**Resilient floor coverings - Tiles of agglomerated composition
cork with polyvinyl chloride wear layer - Specification**

Revêtements de sol résilients - Dalles d'aggloméré de liège
avec couche d'usure à base de polychlorure de vinyle -
Spécifications

Elastische Bodenbeläge - Platten auf einem Rücken aus
Presskork mit einer Polyvinylchlorid-Nutzschicht -
Spezifikation

This European Standard was approved by CEN on 10 March 2011.

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.

This European Standard exists 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.

CEN members are the national standards bodies of 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, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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Foreword

This document (EN 655:2011) has been prepared by Technical Committee CEN/TC 134 “Resilient, textile and laminate floor coverings”, the secretariat of which is held by BSI.

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 October 2011, and conflicting national standards shall be withdrawn at the latest by October 2011.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 655:1996.

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

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EN 655:2011 (E)**1 Scope**

This European Standard specifies the characteristics of agglomerated cork with a wear layer based on polyvinyl chloride and modifications thereof.

To encourage the consumer to make an informed choice, the European Standard includes a classification system (see EN 685) based on intensity of use, which shows where these floor coverings should give satisfactory service. It also specifies requirements for marking.

2 Normative references

The following referenced documents are indispensable for the application 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 424, *Resilient floor coverings — Determination of the effect of the simulated movement of a furniture leg*

EN 425, *Resilient and laminate floor coverings — Castor chair test*

EN 427, *Resilient floor coverings — Determination of the side length, squareness and straightness of tiles*

EN 428, *Resilient floor coverings — Determination of overall thickness*

EN 429, *Resilient floor coverings — Determination of the thickness of layers*

EN 430, *Resilient floor coverings — Determination of mass per unit area*

EN 431, *Resilient floor coverings — Determination of peel resistance*

EN 433, *Resilient floor coverings — Determination of residual indentation after static loading*

EN 434, *Resilient floor coverings — Determination of dimensional stability and curling after exposure to heat*

EN 436, *Resilient floor coverings — Determination of density*

EN 660-2, *Resilient floor coverings — Determination of wear resistance — Part 2: Frick-Taber test*

EN 684, *Resilient floor coverings — Determination of seam strength*

EN 685, *Resilient, textile and laminate floor coverings — Classification*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1**polyvinylchloride floor covering**

floor covering with surface layers which are produced using polyvinyl chloride (and modifications thereof) as binder

3.2

agglomerated composition cork with polyvinyl chloride wear layer

floor coverings whose main component is agglomerated cork and whose wear layer is a homogeneous polyvinyl chloride layer

NOTE Decorative materials, e.g. decorative cork or wood veneers, can be incorporated under the wear layer.

4 Requirements

4.1 General requirements

Floor coverings described in this standard shall conform to the appropriate general requirements specified in Table 1, when tested in accordance with the methods given therein.

4.2 Classification requirements

4.2.1 Wear group classification

Polyvinyl chloride floor coverings shall be classified in the appropriate wear group specified in Table 2, when tested in accordance with EN 660-2.

Floor coverings described in this standard have a transparent wear layer, are *a priori* group T and need not be tested.

4.2.2 Level of use classification

Floor coverings described in this standard shall be classified as suitable for different levels of use in accordance with the performance requirements specified in Table 3, when tested with the methods given therein. Classification shall conform to the scheme specified in EN 685.

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Table 1 — General requirements

Characteristic	Requirement	Test method
Side length of tiles mm	Deviation $\leq 0,13\%$ of nominal length up to 0,5 mm maximum	EN 427
squareness and straightness for side length: mm ≤ 400 mm > 400 mm	Deviation allowed at any point $\leq 0,25$ $\leq 0,35$	
Overall thickness: average mm individual results	Nominal value + 0,18 - 0,15 Average value $\pm 0,20$	EN 428
Thickness of agglomerated composition cork base mm	Nominal thickness shall be stated	EN 429
Thickness of polyvinylchloride backing (average) mm	Nominal value $\pm 10\%$	
Total mass per unit area (average) g/m ²	Nominal value + 13% - 10%	EN 430
Density of wear layer (average) kg/m ³	Nominal value ± 50	EN 436
Dimensional stability after exposure to heat ¹ %	$\leq 0,40$ after reconditioning for 7 days after test	EN 434
Curling on exposure to heat mm	≤ 6 after reconditioning for 7 days after test	
Peel resistance ² N/50mm average individual values	≥ 35 ≥ 25	EN 431
¹ This test is not applicable when the decorative layer is wood veneer		
² The separation shall lie within the agglomerated cork line		

Table 2 — Classification requirements for wear groups

Characteristic	Requirements for wear group				Test method
	T	P	M	F	
volume loss F_v mm ³	$F_v \leq 2,0^1$	$2,0 < F_v \leq 4,0$	$4,0 < F_v \leq 7,5$	$7,5 < F_v \leq 15,0$	EN 660-2
¹ If tested for verification					

Table 3 — Classification requirements for level of use

Class	Symbol	Level of use	Overall thickness Nominal value ¹ , mm	Thickness of wear layer	Effect of a castor chair	Simulated movement of a furniture leg		Seam strength when welded in accordance with manufacturer's instructions N/50 mm	Residual indentation after static loading, average, mm
				Nominal value ² , mm					
21		domestic moderate	2,0	0,15	No requirement	-	No requirement	No requirement	
22		domestic general		0,20					
22+		domestic general							
23		domestic heavy	2,5	0,25				Average ≥ 150	
31		commercial moderate						Individual values ≥ 120	

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