

CORK FLOATING FLOOR TECHNICAL SPECIFICATION

Definition

Panels consisting of a compact high density fibreboard layer, a bonded surface layer of agglomerated cork floor covering and a back layer of soft agglomerated cork.

The core material (substrate) is tongued and grooved with a special profile design (UNICLIC®) to allow the panels to be assembled together mechanically, without the use of glue.

The edges of each panel elements are protected by "JointShield". Using a patented coating technology, a moisture-repellent agent is constantly applied to the entire cross-section of the profile.

Materials

Surface: 3mm thickness high-density agglomerated cork floor covering according to EN 12104.

Substrate: High density fibreboard with very low formaldehyde content (E1) and high moisture resistance properties.

Backing: Insulating soft agglomerated cork sheet with Microban® antibacterial protection.

Glue: Solvent-free PVA glue (D3 grade).

Finish: Hard-wear multilayer UV finish.

Sealant: Impregnating oil-paraffin wax composition.











Classification Requirements based on intensity of use




Classification of the cork surface layer of floor panels shall be in accordance with the scheme established in ISO 10874 and shall, as appropriate, conform to EN 12104. The nominal thickness of the surface layer shall be in accordance with table 2 of EN 14085.

Class	Symbol	Level of use	Thickness of surface layer	Density of surface layer
23		Domestic Heavy	3 mm	> 500 Kg/m ³
32		Commercial General		









Specification Requirements

Characteristic		Requirement	Test method
Length and width measured at the surface layer		910x300 mm \pm 0,10%	EN ISO 24342:2012+A 1:2012
Overall thickness		10,5 mm \pm 0,20 mm	EN ISO 24346
Thickness of surface layer		3,0 mm (-0,0; + 0,2)	EN ISO 24340
Density of surface layer		> 500 Kg/m ³	EN 672
Squareness Straightness measured at the surface layer		< 0,3 mm < 0,2 mm	EN ISO 24342:2012+A 1:2012
Flatness of the panel Length - Concave / Convex Width - Concave / Convex		\leq 0,10 % / \leq 0,5 % \leq 0,05 % / \leq 0,1 %	EN 14085 Annex A
Openings between panels Average Individual values		\leq 0,10 mm \leq 0,15 mm	EN 14085 Annex B
Height difference between panels Average Individual values		\leq 0,15 mm \leq 0,20 mm	EN 14085 Annex B
Dimensional variation caused by changes in atmospheric humidity		\leq 0,2 %	EN 14085 Annex C + EN 669
Residual indentation		\leq 0,25 mm	EN ISO 24343-1
Castor chair		No disturbance to the surface other than slight change in appearance and no delaminating shall occur	EN 425
Simulated movement of a furniture leg		No damage shall be visible when tested with foot type 2	EN 424

Safety Properties

Characteristic		Requirement	Test method
Reaction to fire		Class D _{fl} - s1	EN 14041 EN 13501-1
Formaldehyde emission		Formaldehyde Class E1 Release $\leq 3,5 \text{ mg/m}^2\text{h}$	EN 14041 EN 717-2
Slip resistance		Technical class DS. dynamic coefficient of friction $\geq 0,30$	EN 14041 EN 13893

Additional Properties

Characteristic		Requirement	Test method
Gloss		$8^\circ \pm 3$	Glossmeter (60°)
Mass per unit area		Average 8.000 g/m^2	EN ISO 23997
Apparent density		Average 760 Kg/m^3	EN 672
Locking strength		$F_{\text{long}} > 5 \text{ kN / m}$ $F_{\text{short}} > 8 \text{ kN / m}$	Internal
Abrasion resistance		Revolutions to initial point (IP) > 6.000 > 2.000	Internal (CS17) EN 438-2 (S42)
Impact resistance (small ball)		$> 40 \text{ N}$	EN 438-2
Scratch resistance		2,0 N	EN 438-2
Impact noise reduction		$\Delta L_w = 18 \text{ dB}$	ISO 140-8
Thermal resistance Thermal conductivity		$0,114 \text{ m}^2.\text{K/W}$ $0,092 \text{ W/m.K}$	EN 14041 EN 12667
Electrical behaviour		Antistatic floor covering The body voltage shall not exceed $2,0 \text{ kV}$	EN 14041 EN 1815

Packing

Floating floor panels shall be dispatched in cardboard trays, wrapped in shrinking foil, providing suitable protection for normal transport and storage conditions.

Packages shall be marked with identifying information by a label and/or inkjet printing and palletized. Each pallet is over strapped and wrapped with stretch film.

Dimensions (length x width x thickness)	Package			
	Planks per pack	m ² per pack	Packs per pallet	m ² per pallet
910 x 300 x 10,5 mm	6	1,64 m ²	60	98,28 m ²

Technical Features



Industry leading patented UNICLIC® locking system and GFIX join performance.



High performance finish with very high wear, impact, scratch and slip resistance.



Low swelling and moisture resistant High Density Fibreboard.



Edge impregnation for improved moisture resistance.



Formaldehyde-free agglomeration technology.



Indoor air quality certification for low-emitting interior building materials, meeting strict chemical emissions limits, which contribute to the creation of healthier interiors for sensitive individuals such as children and the elderly.



Kork-Logo certification of the German Cork Association.



Very low indoor air emissions of VOC's, labelled A+ according to the French decree for the labelling of construction products.



Embedded antibacterial and fungus protection using Microban® antibacterial technology.

Technical Features



Certification for safety and energy-saving performance



Product made on a production line certified ISO 9001

Normative References

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 ISO 24342:2012+A1:2012	Resilient floor coverings - Determination of the side length and the squareness and straightness of tiles
EN ISO 24346	Resilient floor coverings - Determination of the overall thickness
EN ISO 23997	Resilient floor coverings - Determination of mass per unit area
EN ISO 24343-1	Resilient floor coverings - Determination of residual indentation after static loading
EN 438-2	Decorative high-pressure laminates (HPL) sheets based on thermosetting resins. Determination of properties
EN 669	Resilient floor coverings - Determination of dimensional stability of linoleum tiles caused by changes in atmospheric humidity
EN 672	Resilient floor coverings - Determination of apparent density of agglomerated cork
ISO 10874	Resilient, textile and laminate floor coverings - Classification
EN 12104	Resilient floor coverings - Specification for cork floor tiles
EN 14085	Resilient floor coverings - Specification for panels for loose laying
EN 14041	Resilient, textile and laminate floor coverings - Essential characteristics
ISO 140-8	Acoustics - Measurement of sound insulation in buildings and of building elements - Part 8: Laboratory measurements of the reduction of transmitted impact noise by floor coverings on a heavyweight standard floor