

CORK FLOATING FLOOR PANELS – TECHNICAL SPECIFICATION

References

This specification applies to all Torlys smart floors by Listor references of floating floor panels with a cork surface layer, type GN-CCU... with “GFIX” profile.

Definition

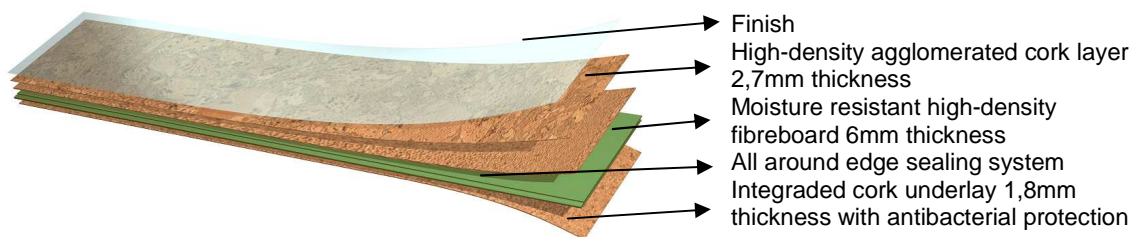
Panels consisting of a compact high density fibreboard layer, a bonded surface layer of agglomerated cork floor covering and a back layer of soft agglomerated cork.

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 “Joint Sealing”. Using a patented coating technology, a moisture-repellent agent is constantly applied to the entire cross-section of the profile.




Materials

- Surface: 2,7mm thickness high-density agglomerated cork floor covering (solid or veneered) 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: UV varnish; waterbased varnish; waterbased hard-wax; UV hard oil.
- 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 EN 685 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	 2,7mm	 > 450 Kg/m ³








Specification Requirements

Characteristic	Symbol	Requirement	Test method
Length and width measured at surface layer		910x194 mm \pm 0,10% 388x388 mm \pm 0,10%	EN 427
Overall thickness		10,5 mm \pm 0,20mm	EN 428
Squareness Straightness measured at surface layer		< 0,3 mm < 0,2 mm	EN 427
Flatness of the panel Length - Concave/Convex Width – Concave/Convex		\leq 0,1% / \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
Residual indentation		\leq 0,3 mm	EN 433
Dimensional variation caused by changes in atmospheric humidity		\leq 0,2 %	EN 669 Annex C

Safety Properties

Characteristic	Symbol	Requirement	Test method
Reaction to fire		Class D _{fi} – 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	Symbol	Requirement	Test method
Mass per unit area		Average 7.500 g/m^2	EN 430
Apparent density		Average 720 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 Average 5.000	Internal
Impact resistance (small ball)		$> 70 \text{ N}$	EN 438
Scratch resistance		$2,0 \text{ N}$	EN 438
Impact noise reduction		$\Delta L_w = 18 \text{ dB}$	EN ISO 140-8
Thermal resistance		$0,114 \text{ m}^2.\text{K/W}$	EN 14041 EN 12664
Electrical behaviour		Antistatic floor covering The body voltage shall not exceed $2,0 \text{ kV}$	EN 14041 EN 1815

Packing

Cork floating floor panels shall be dispatched in cardboard trays (normally 6 panels per package) 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)	Package			
	Planks per pack	m ² per pack	Packs per pallet	m ² per pallet
910 x 194 x 10,5 mm	6	1,060	90	95,40
388 x 388 x 10,5 mm	11	1,656	48	79,49

Technical Features



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



High quality two-component waterborne PU finish, with very high wear and impact resistance with a natural look-and-feel.



Low swelling and moisture resistant High Density Fibreboard.



Edge impregnation for improved moisture resistance.



Micro-bevelled edge aesthetic enhancement.



Embedded antibacterial and fungus protection using Microban® antibacterial technology.



Indoor air quality certification for low-emitting interior building materials.



Kork-Logo certification of the German Cork Association.



Formaldehyde-free agglomeration technology.



Certification for safety and energy-saving performance.

Supplementary information

Information on laying and maintenance of cork floating floor panels can be obtained at our website www.listor.com.

Normative references

EN 427	Resilient floor coverings – Determination of the side length and the squareness and straightness of tiles.
EN 428	Resilient floor coverings – Determination of the overall thickness.
EN 430	Resilient floor coverings – Determination of mass per unit area.
EN 433	Resilient floor coverings – Determination of residual indentation after static loading.
EN 669	Resilient floor coverings – Determination of dimensional stability of cork tiles caused by changes in atmospheric humidity.
EN 672	Resilient floor coverings – Determination of apparent density of agglomerated cork.
EN 685	Resilient 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.



Product made on a production line certified ISO 9001.

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