

GFIX "FX" Cork Floating Floor Panels

General Technical Specification

corkfloor.co.uk

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References

This specification applies to all CORKFLOOR's references of floating floor panels with a cork surface layer, type GN-FX... 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 "JointShield". Using a patented coating technology, a moisture-repellent agent is constantly applied to the entire cross-section of the profile.



Materials

Surface (A): Agglomerated cork floor covering (solid or veneered) according to EN 12104.

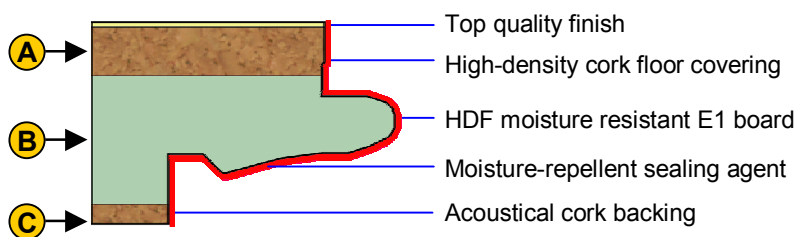
Substrate (B): High density fibreboard with very low formaldehyde content (E1) and high moisture resistance properties.

Backing (C): Soft agglomerated cork sheet.

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

Finish: UV varnish; waterbased varnish; waterbased hard-wax; UV hard oil.

Sealant: Impregnating oil-paraffin wax composition.



Dimensions

Dimensions (length x width)	Thickness			
	Total	Cork surface (A)	HDF core (B)	Cork backing (C)
mm	mm	mm	mm	mm
910 x 300	10,0	2,7	6,0	1,3
(*)	10,5 (*)	2,7	6,0	1,8
910 x 195	11,0	2,7	6,5	1,8
300 x 300	12,0	3,0	6,5	2,5







(*) Standard dimension

GFIX "FX" Cork Floating Floor Panels



General Technical Specification

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	 2,7 mm	 > 450 Kg/m ³
31		Commercial Moderate	 3 mm	 > 500 Kg/m ³



Specification Requirements

Characteristic	Symbol	Requirement	Test method
Length and width measured at the surface layer		Nominal $\pm 0,10\%$	EN 427
Overall thickness		Nominal $\pm 0,20$ mm	EN 428
Squareness		< 0,3 mm	EN 427
Straightness measured at the surface layer		< 0,2 mm	
Flatness of the panel		Length - Concave / Convex $\leq 0,50 \% / \leq 1,0 \%$ Width - Concave / Convex $\leq 0,10 \% / \leq 0,15 \%$	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










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GFIX "FX" Cork Floating Floor Panels

General Technical Specification

Characteristic	Symbol	Requirement	Test method
Dimensional variation caused by changes in atmospheric humidity		≤ 0,5 %	EN 669 Annex C
Residual indentation		≤ 0,4 mm	EN 433


Additional Properties

Characteristic	Symbol	Requirement	Test method
Mass per unit area		Average 7.500 g/m ²	EN 430
Locking strength		F _{long} > 5 kN / m F _{short} > 8 kN / m	Internal
Abrasion resistance  WearTop varnished		Revolutions to initial point Average 6.000 (abrasion wheels CS17; 1Kg weight per wheel; cleaning 10 revolutions each 1000 turns)	Internal
Formaldehyde emission		Formaldehyde Class E1 Release ≤ 3,5 mg/m ² h	EN 14041 EN 717-2
Reaction to fire		Class D _{fl} – S1	EN 14041 EN 13501-1
Slip resistance		Technical class DS. dynamic coefficient of friction ≥ 0,30	EN 14041 EN 13893
Impact noise reduction		ΔL _w = 18 dB	EN ISO 140-8
Thermal resistance		0,116 m ² .K/W	EN 14041 EN 12664

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GFIX "FX" Cork Floating Floor Panels

General Technical Specification

Characteristic	Symbol	Requirement	Test method
Electrical behaviour		Antistatic floor covering The body voltage shall not exceed 2,0 kV	EN 14041 EN 1815

Other Characteristics

All characteristics regarding the cork surface layer (colouring, finishing, etc.) are the same as the corresponding cork floor covering and according its technical specification.
All characteristics regarding the cork backing are according to GN-11 specification.

Fibreboard Properties

Specially manufactured for use in areas with temporary high levels of relative humidity.
Low formaldehyde content class E1, good dimensional stability and low swelling.
The fibreboard is supplied coloured green.

Fibreboard General Characteristics (average values)

Property	Units	Specification	Test method
Density	Kg/m ³	880	EN 323
Internal Bond	N/mm ²	1.5	EN 319
Bending Strength	N/mm ²	40	EN 310
Modulus of Elasticity	N/mm ²	3500	EN 310
Thickness Swelling 24 hours	%	12	EN 317
Thickness Swelling permanent	%	19	EN 321
Moisture Content	%	7	EN 322
Dimensional Movement length / width	%	0.4	EN 318
Dimensional Movement thickness	%	6	EN 318
Surface Soundness	N/mm ²	1.2	EN 311
Grit Content	%Weight	0.05 max	ISO 3340
Density Profile	%	> 90	
Formaldehyde content	mg / 100g	< 9	EN 120

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.

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General Technical Specification

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Dimensions (length x width)	Package			
	Planks per pack	m ² per pack	Packs per pallet	m ² per pallet
mm		m ²		m ²
910 x 300	6	1,64	56	91,73
			60	98,28
910 x 195	6	1,06	84	89,43
			90	95,82
300 x 300	11	0,99	96	95,04

Supplementary information

Information on laying and maintenance of cork floating floor panels can be obtained at our Service & Support page on our website at www.corkfloor.co.uk.

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 linoleum 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