

VINYL&CORK FLOATING FLOOR PANELS TECHNICAL SPECIFICATION

References

This specification applies to all GRANORTE's references of floating floor panels with a vinyl surface layer, type GN-FXV... with "GFIX" profile.

Definition

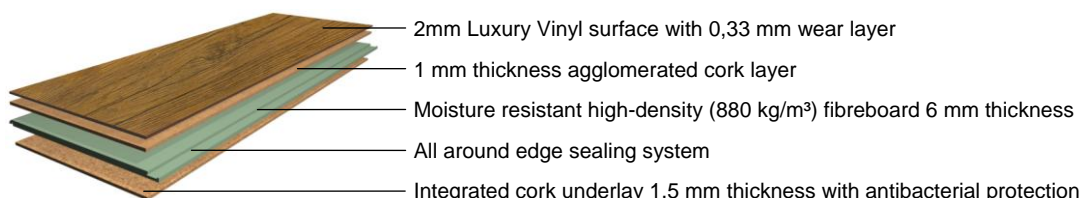
Panels consisting of a compact high density fibreboard layer, a bonded surface layer of Luxury Vinyl, an agglomerated cork layer for improved sound reduction and a back layer of soft agglomerated cork as underlay.

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: 2mm thickness luxury vinyl with 0,33mm wear layer and a 1mm agglomerated cork backing for improved sound reduction.
- 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.
- Adhesive: Solvent-free modified PVA emulsion (D3 grade).
- Sealant: Impregnating oil-paraffin wax composition.







Classification based on intensity of use




Classification of the floor panels in accordance with the scheme established in EN 685.

Level of use	Class	Symbol
Domestic	23 Heavy	
Commercial	32 General	








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Specification Requirements

Characteristic	Symbol	Requirement	Test method
Length and width measured at the surface layer		910x194 mm \pm 0,10%	EN 427
Overall thickness		10,5 mm \pm 0,20 mm	EN 428
Squareness Straightness measured at the 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 0,25 mm	EN 433
Dimensional variation caused by changes in atmospheric humidity		\leq 0,15 %	EN 669 Annex C

Safety Properties

Characteristic	Symbol	Requirement	Test method
Reaction to fire		Class B _{fl} – S1 (vinyl surface)	EN 14041 EN 13501-1
Formaldehyde emission		Formaldehyde Class E1 Release \leq 3,5 mg/m ² h	EN 14041 EN 717-2
Slip resistance		Technical class DS. (vinyl surface) dynamic coefficient of friction \geq 0,30	EN 14041 EN 13893

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Additional Properties

Characteristic	Symbol	Requirement	Test method
Thickness of wear layer		0,33 mm	EN 429
Mass per unit area		Average 9.600 g/m ²	EN 430
Apparent density		Average 910 Kg/m ³	EN 672
Locking strength		$F_{\text{long}} > 5 \text{ kN / m}$ $F_{\text{short}} > 8 \text{ kN / m}$	Internal
Abrasion resistance		< 5 mg/100 cycles	EN 660-2
Impact noise reduction		$\Delta L_w = 17 \text{ dB}$	EN ISO 140-8
Thermal resistance		0,112 m ² .K/W	EN 14041 EN 12667
Electrical behaviour		Antistatic floor covering (vinyl surface) The body voltage shall not exceed 2,0 kV	EN 14041 EN 1815

Packing

Vinyl 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)	Package					
	Planks per pack	m ² per pack	Packs per pallet	m ² per pallet	Weight per pack	Weight per pallet
910 x 194 mm	8	1,41 m ²	66	93,06 m ²	13,5 Kg	915 Kg

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Technical Features



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



Wear enhancement technology by embedding micro ceramic beads into the vinyl wear layer.



Low swelling and moisture resistant High Density Fibreboard.



Edge impregnation for improved moisture resistance.



Embedded antibacterial and fungus protection using Microban® antibacterial technology.



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 Service & Support page on our website at www.granorte.pt.

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 429	Resilient floor coverings. Determination of the thickness of layers
EN 430	Resilient floor coverings - Determination of mass per unit area
EN 433	Resilient floor coverings - Determination of residual indentation after static loading
EN 660-2	Resilient floor coverings. Determination of wear resistance. Frick-Taber test
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
EN ISO 140-8	Acoustics. Measurement of sound insulation in buildings and of building elements. Laboratory measurements of the reduction of transmitted impact noise by floor coverings on a heavyweight standard floor



Product made on a production line certified ISO 9001.