

Technical Data Sheet

This specification applies to Duro Design's references of cork floor coverings, solid or veneered, in tiles or sheets.

Definition




Solid or veneered agglomerated cork tiles or sheets for floor covering purpose. Veneered types are produced by gluing one cork veneer (generally 1.2 mm thickness) with one high-density agglomerated cork backing. Solid references are obtained by slicing sheets of required thickness from specific types of high-density cork blocks. Maximum size of sheets is 1200x640 mm untrimmed.

Materials







- Granulated cork, broken cork and/or pieces of cork of different sizes, shapes and qualities depending on the design type;
- Polyurethane cork binder;
- Solvent-free PVA glue – *for veneered cork tiles or sheets*;
- UV-cured or waterbased varnish as finishing.

Classification Requirements based on intensity of use


Classification of the cork floor coverings shall be in accordance with the scheme established in ISO 10874 shall, as appropriate, conform to EN 12104.

Class	Symbol	Level of use	Thickness	Nominal Density
		Commercial General		

Specification Requirements




Characteristic	Symbol	Requirement	Test method
Length and width		Nominal $\pm 0,20\%$	EN ISO 24342:2012+A 1:2012
Overall thickness		Nominal $\pm 0,15$ mm	EN ISO 24346
Squareness Straightness		< 0,4 mm < 0,25 mm	EN ISO 24342:2012+A 1:2012
Apparent Density		\geq Nominal Value Individual Results	EN 672
Residual indentation		$\leq 0,3$ mm	EN ISO 24343-1
Mass per unit area		Nominal values for 4mm thickness: Nominal $\pm 10\%$ Class 21: 1600 g/m ² Class 22/23: 1800 g/m ² Class 31/32: 2200 g/m ²	EN ISO 23997
Dimensional variation caused by changes in atmospheric humidity		$\leq 0,2\%$	EN 14085 Annex C + EN 669

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Dimensional stability		$\leq 0,2 \%$	EN ISO 23999
Curling		$\leq 5 \text{ mm}$	EN ISO 23999
Moisture Content		$\leq 5 \%$	EN 12105

Note: Tolerances of length/width for tiles of non-standard dimensions can be different.
 Deviation of squareness and straightness for tiles of non-standard dimensions can be different.
 Standard dimensions are: 600x300 mm or 300x300 mm. Other dimensions available on request.

Additional Properties

Characteristic	Symbol	Requirement	Test method
Tensile strength		$\geq 1200 \text{ kPa}$	Internal
Formaldehyde emission		Formaldehyde Class E1 without testing. No formaldehyde-containing materials are added during production.	EN 14041 EN 717-1
Reaction to fire		Unfinished: Class C _{fl} – S1 Finished: Class D _{fl} – S1	EN 14041 EN 13501-1
Slip resistance		Technical class DS. dynamic coefficient of friction $\geq 0,30$	EN 14041 EN 13893

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Thermal conductivity		0,065 W /m.K	EN 14041 EN 12664
Electrical behaviour		Antistatic floor covering The body voltage shall not exceed 2,0 kV	EN 14041 EN 1815
Impact noise reduction		$\Delta L_w = 17$ dB	ISO 140-8

Colouring

Coloured sheets or tiles are stained with a coloured primer specially developed for cork. Colours can be semi-transparent or solid. A large colour range is available and customized colours are possible. Coloured sheets or tiles can be finished with any of the existing types of finish.

Finishing specification

All cork floor sheets or tiles are calibrated and top surface is fine-sanded.

Finish	Description	Gloss	Wear resistance	Scratch resistance
		% at 60°	TABER test revolutions to initial point	EN 438
AQUA2K	Waterbased 2 components polyurethane varnish	12 ± 4	4.000 INTERNAL (CS17)	2 N

Packaging

Sheets or tiles shall be dispatched in packages (cardboard cartons) which provide suitable protection, and which are sufficiently watertight to keep the moisture content of the cork as specified under normal storage conditions. Normally, packs of 7 tiles wrapped in shrinking foil are assembled inside each carton.

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.

Packages shall be stored shielded from direct sunlight and humidity.

Dimensions of tiles (length x width x thickness)	Package					
	Tiles per pack	m ² per pack	Packs per carton	m ² per carton	Cartons per pallet	m ² per pallet
mm		m ²		m ²		m ²
600 x 300 x 8	7	1,26	4	7,92	54	427,68
300 x 300 x 8	7	1,26	8	7,92	54	427,68

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Supplementary information Additional technical information or maintenance and laying instructions of cork floor coverings can be obtained at our Service & Support page on our website at www.duro-design.com



* Information représentative des émissions dans l'air intérieur des substances volatiles présentant un risque de toxicité par inhalation, sur une échelle de classe allant de C (fortes émissions) à A+ (très faibles émissions)

Product with **7** marking according to European Standard EN 14041.



This product has been certified according to the GREENGUARD GOLD Certification Program for Low Emitting Products



To offer the consumer unmistakable guarantees about the quality and origin of this cork product, it holds the *Cork Mark*.

Product made on a production line certified



Formaldehyde-free agglomeration technology.



Normative references

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 24343-1	Resilient floor coverings – Determination of residual indentation after static load
EN ISO 23999	Resilient floor coverings – Determination of dimensional stability and curling after exposure to heat
ISO 10874	Resilient floor coverings – Classification
EN 672	Resilient floor coverings – Determination of apparent density of agglomerated cork
EN 12104	Resilient floor coverings – Cork floor tiles – Specification
EN 12105	Resilient floor coverings – Determination of moisture content of agglomerated cork