UNDERLAY CORK ROLLS GN-R2040M180

TECHNICAL SPECIFICATION

General definition and product composition		
Definition		Low-density technical agglomerated cork made of medium grade cork granules of specified dimension and density, with the addition of a special binder. Cork underlay is a cost effective solution for reducing airborne and impact noise problems. Due to the unique 40 million cells per cubic centimetre honeycomb structure of cork and the special nature of the resin binder, it performs outstandingly under floating and laminated floors, wooden floors, ceramic tiles, natural stone, linoleum and vinyl floors.
Dimensions		Produced in agglomerated cork cylinders, with maximum dimensions of 950 mm (diameter) per 1500 mm (height), which are sliced in the required thickness and cut into rolls of the required dimension.
Product structure and materials		Granulated cork 0.5-4.0 mm size and 65/75 Kg/m^3 density. Polyurethane pre-polymer cork binder.
Installation system		Rolls, loose lay. Cork underlay can be used in domestic and commercial applications and contribute significantly to the acoustic performance of floors improving environmental comfort.
Technical data		
Length and width	EN ISO 24342	Nominal ± 1%
Overall thickness	EN ISO 24346	Nominal ± 0.15 mm
Density	EN 672	185 Kg/m^3 ± 5%
Mass per unit area	EN ISO 23997	Nominal ± 10%
Tensile strength	ISO 7322	> 350 kPa Direction perpendicular to compression > 250 kPa Direction to compression
Compression and Recuperation	ISO 7322	Compression: ≤ 35 % Recuperation: ≥ 75 %
Flexibility	EN ISO 24344	PASS
Moisture content	EN 12105	≤ 8 %
Resistance to boiling water	ISO 7322	No disintegration
Formaldehyde emission	EN 12149	< 0.1 mg/kg (below detection) No formaldehyde-containing products are added during the manufacturing.

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Heavy metals and specific elements Arsenic (As); Barium (Ba); Cadmium (Cd); Chromium (Cr); Mercury (Hg); Lead (Pb); Antimony (Sb); Selenium (Se)	EN 12149	None of these substances are added or have come in direct contact with the product during the manufacturing process. All measured elements are below detection level or below the limit value.
Release of vinyl chloride monomer	EN 12149	< 0.1 mg/kg (below detection) No polyvinyl chloride or products containing vinyl chloride are used during the manufacturing process.
Thermal conductivity	EN 12667	0.05 W/(m.K)
Impact noise reduction Average value	ISO 717-2	DLw (chapter 5 EN ISO 717-2) 2.0 mm thickness - 18 dB 4.0 mm thickness - 19 dB
General data		
Features		Safe and easy to handle and install; Effective reduction of impact and airborne sound; Increases the thermal comfort of the surface floor; Persistence of characteristics along time (lifetime); High fire resistance, without the release of toxic gases; Odourless; No harmful chemicals; Enhanced built-in lifetime antibacterial protection; Meets "Green building" requirements; Contains 90% (by weight) of post-industrial recycled content; Natural, biodegradable and recyclable product; Product certified FSC Controlled Wood SA-CW-002408.
Packaging		Underlay cork rolls shall be dispatched in packages that provide suitable protection, and which are sufficiently watertight to keep the moisture content of the cork as specified under normal storage conditions. Packages shall be stored shielded from direct sunlight and humidity.
Typical uses		Due to the low thermal conductivity levels and effective sound insulation of cork, underlay cork rolls are commonly used under floating floors, wooden floors, ceramic tiles, natural stone, linoleum and vinyl floors. Cork rolls can be used in domestic and commercial applications contributing significantly to the acoustic and thermal performance of buildings, improving environmental comfort and reducing energy costs. The use of a natural and renewable raw-material and the possibility of total recycling of the product for other uses, make the agglomerated cork rolls a reference in terms of ecology and environmental sustainability.
Compliance with the building regulations		The sound insulation of floors is a necessary requirement of the building regulations. When used with appropriate structural floor and ceiling constructions, cork underlay can meet the performance requirements for sound insulation of most of the national building regulations.

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Health, Safety and Environment	The use of a natural and renewable raw-material and the possibility of total recycling of the product, make the agglomerated cork underlay a reference in terms of ecology and environmental sustainability. Cork underlay contains no PVC and no softeners or other substances hazardous to health or the environment. The binder pre-polymer, after complete reaction with cork, is transformed into a completely inert polymer which is completely free of isocyanate groups and, thus, is free of any toxicity, being suitable for food contact applications. Tests made show the compliance of the finish products for the contents of Heavy metals, organostannic compounds, certain preservatives, formaldhehyde, polycyclic aromatic hydrocarbon and microbiological control.

GRANORTE reserves the right to make changes to material and structure to improve the quality or technical performance.

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