



Underlay PLUS VAPOUR BARRIER

UNDERLAY FOR THERMAL AND ACOUSTIC INSULATION WITH PRE-ATTACHED VAPOUR BARRIER



10m²

TECHNICAL PROPERTIES



★★★★★

Moisture protection



★★★★☆

Reduction of impact noise



★★★★☆

Reduction of footfall noise



★★★★☆

Thermal resistance



★★★★★

Compensates for uneven floor



★★★★☆

Protection from damage from falling objects



★★★★★

Load resistance



★★★★★

Material Description & Properties

Agglomerated cork and recycled EVA and PU foams underlay for impact noise and thermal insulation. Excellent compensation for uneven floors.

KEY FEATURES

- 2 in 1 solution: Pre-attached vapour barrier for moisture protection
- Excellent acoustic insulation.
- Good load absorption capacity.
- The most versatile underlay with high durability and good performance.
- Anti-slip underlay.
- Tested according to MMFA/EPLF minimum requirements group 1 and 2.

TECHNICAL DATA

TEST	REQUIREMENT	UNIT	RESULT
Punctual conformability (PC)	≥ 0,5	mm	1,3
Compressive strenght (CS)	≥ 200	kPa	300
Compressive creep (CC)	≥ 10	kPa	90
Impact sound (IS)	≥ 10	dB	20
Reflected walking sound (RWS)	–	%	TBD
Thermal Resistance (R)*	≤ 0,15	m ² C/W	0,031
Dynamic load (DL)	≥ 10 000	cycles	≥ 10 000
Moisture Protection (SD)	≥ 75	m	145

* Suitable for underfloor heating and cooling

THERMAL INSULATION

Thermal Conductivity ⁽¹⁾	0,0637 W/mK
Thermal Resistance	0,0314 (m ² °C/W)

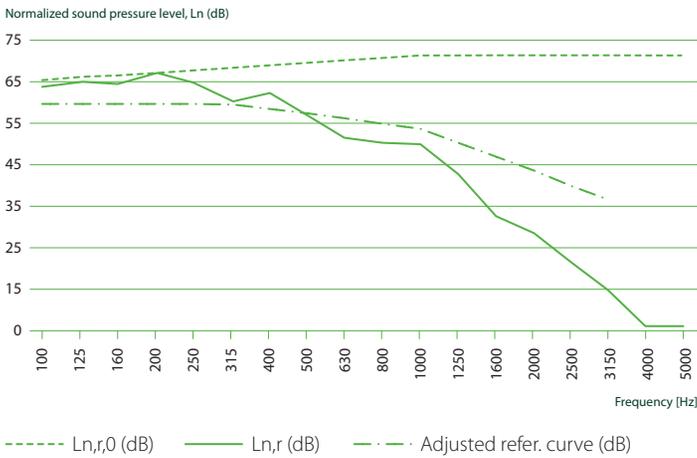
⁽¹⁾ EN 8301

ACOUSTICAL RESULTS

Flooring	Laminate floor
Thickness (mm)	2
ΔL_w (dB) ⁽¹⁾	20

⁽¹⁾ ISO 10140-3 and ISO 717-2

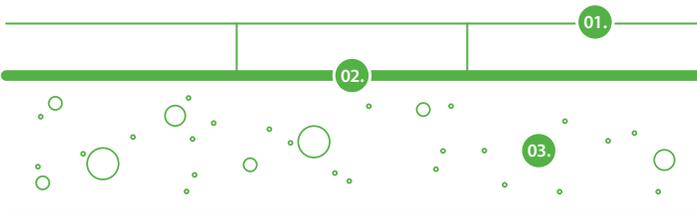
REDUCTION OF IMPACT NOISE



- $L_{n,r,0}$ – Normalized impact sound pressure level of the Lab reference floor.
- $L_{n,r}$ – Normalized impact sound pressure level of the reference floor with the floor covering under test.
- ΔL_w – Impact sound pressure level reduction index of the covering under test, on a normalized floor.

The results are based on test made with an artificial source under laboratory conditions (engineering method).

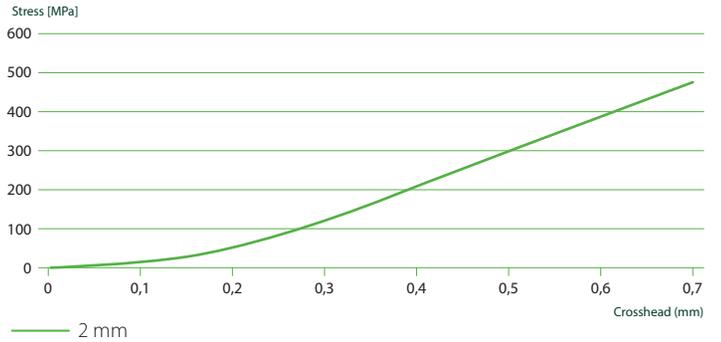
TEST APPARATUS (ΔL_w)



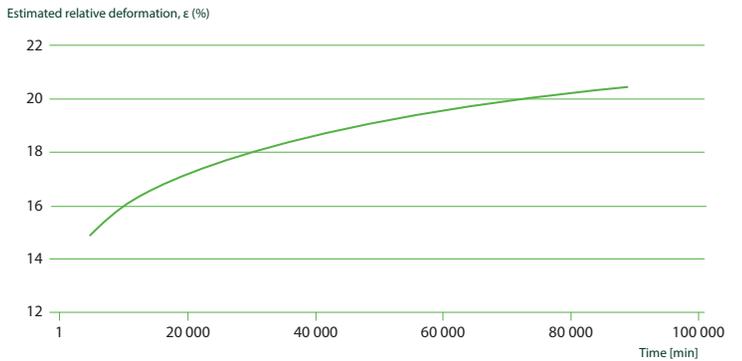
- 01. Laminate floor
- 02. Underlay GO4CORK PLUS VB (2 mm)
- 03. Concrete slab with 140 mm thickness

PHYSICAL AND MECHANICAL PROPERTIES

COMPRESSIVE STRENGTH

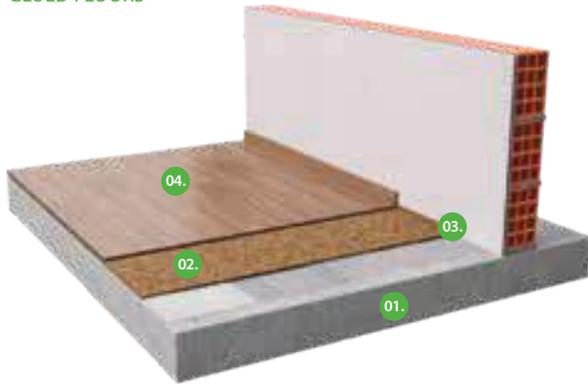


CREEP DEFLECTION @ 90 kPa (% OF START HEIGHT)



APPLICATION SCHEMES

NON-GLUED FLOORS



01.

Reinforced
concrete slab

02.

Underlay
GO4CORK PLUSVB

03.

Perimeter
insulation barrier

04.

Non-glued
laminated floor

GENERAL INSTALLATION INSTRUCTIONS

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The following installation instructions are recommended by Amorim Cork Composites, and are not intended to be a definitive project specification. They should be interpreted and applied taking into account the recommendations of the manufacturers of the flooring to be installed.

1. PREPARATION OF THE SUBFLOOR

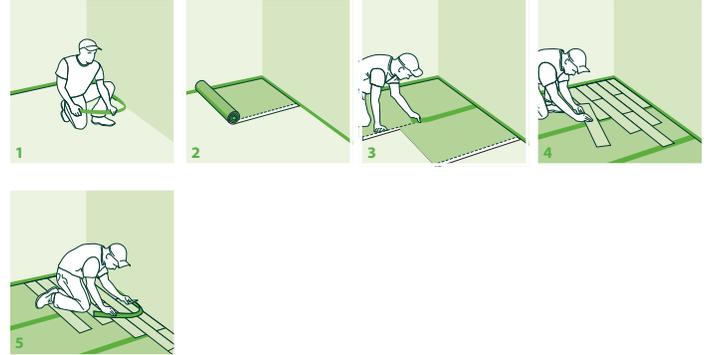
- The subfloor must be level, dry, clean and in good structural conditions. A floor is considered level if the deviation height is less than 2mm over a distance of 2.5 linear meters. Deviations above this value must be leveled out before underlay installation.
- The humidity content of the concrete substrate must not exceed 2.5 % (MC) by weight. Any moisture problems need to be solved before installation. New concrete slabs need to cure for at least 120 days before installation.
- The environmental conditions during the installation should be: temperature >10°C and humidity <75%

2. INSTALLATION OF THE UNDERLAY

This underlay must be installed with the vapour barrier facedown on the subfloor. Place one roll of the underlay parallel to the wall and in the opposite direction you plan to install the final floor to reduce seams. Cut the underlay material roll to the desired length and install it directly, covering the entire surface of the room. This underlay comes with an overlap of the plastic foil. When unrolling your rolls, install the next row immediately next to the previous one, covering the foil overlap. However, be sure to not overlap the underlay edges nor leave any gaps. Using the attached overlap creates a seamless moisture seal between rows when properly installed. Use a tape to securely seal the rows together. Never mechanically secure the underlay with screws, nails or staples as this may compromise its effectiveness. Install the final floor perpendicularly to the underlay. Always follow the flooring manufacturer's recommended installation instructions.

APPLICATION PROCESS

FLOATING INSTALLATION WITH PRE ATTACHED VAPOUR BARRIER



1. Installation of perimeter barrier; 2. Installation of underlay; 3. Installation of the tape; 4. Installation of final flooring; 5. Cutting perimeter barrier.



**AMORIM
CORK
COMPOSITES**

The data provided in this Material Data Sheet represents typical values. This information is not intended to be used as a purchasing specification and does not imply suitability for use in a specific application. Failure to select the proper product may result in either equipment damage or personal injury. Please contact Amorim Cork Composites regarding specific application recommendations. Amorim Cork Composites expressly disclaims all warranties, including any implied warranties or merchantability or of fitness for a particular purpose. Amorim Cork Composites is not liable for any indirect special, incidental, consequential, or punitive damages as a result of using the information listed in this MDS. Any of its material specification sheets, its products or any future use or re-use of them by any person or entity. For contractual purposes, please request our Product Specifications Sheet (PDA).

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