



# Underlay CYCLE VAPOUR BARRIER

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



10m<sup>2</sup>

## 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 & EVA underlay for resilient floors  
with good acoustic insulation and load resistance.

### KEY FEATURES

- 2 in 1 solution: Pre-attached vapour barrier for moisture protection
- Highly resistant to residual indentation.
- Produced from Recycled and Natural Materials.
- Resistant against very heavy loads.
- Helps to protect LVT flooring from damage the click-system joints.
- Tested according to MMFA/EPLF higher requirements groups 1 and 2.

## TECHNICAL DATA

TEST	REQUIREMENT	UNIT	RESULT
Density	–	kg/m <sup>3</sup>	300-400
Punctual conformability (PC)	≥ 0,5	mm	≥ 0.5
Compressive strenght (CS)	≥ 400	kPa	400
Compressive creep (CC)	≥ 35	kPa	50
Impact sound (IS)	≥ 18	dB	18
Reflected walking sound (RWS)	–	%	TBD
Thermal Resistance (R)*	≤ 0,15	m <sup>2</sup> °C/W	0,015
Dynamic load (DL)	≥ 100 000	cycles	≥ 100 000
Moisture Protection (SD)	≥ 75	m	145

\* Suitable for underfloor heating and cooling

## THERMAL INSULATION

Thermal Conductivity <sup>(1)</sup>	0,1036 W/mK
Thermal Resistance	0,015 (m <sup>2</sup> °C/W)

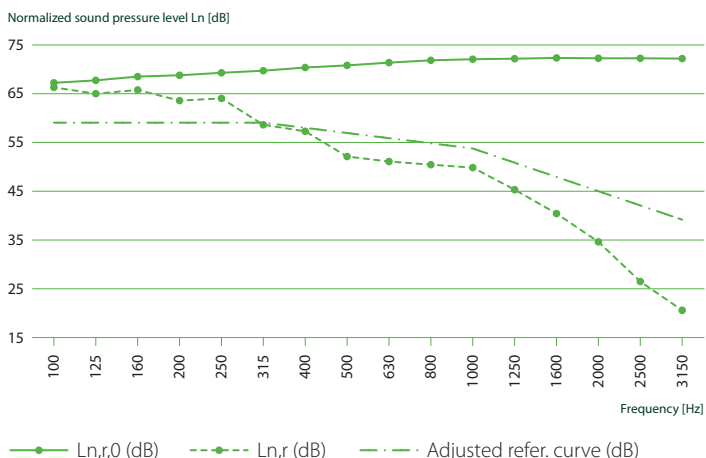
<sup>(1)</sup> EN 8301

## ACOUSTICAL RESULTS

Flooring	Resilient floor
Thickness (mm)	1.8
$\Delta L_w$ (dB) <sup>(1)</sup>	18

<sup>(1)</sup> ISO 10140-3 and ISO 717-2

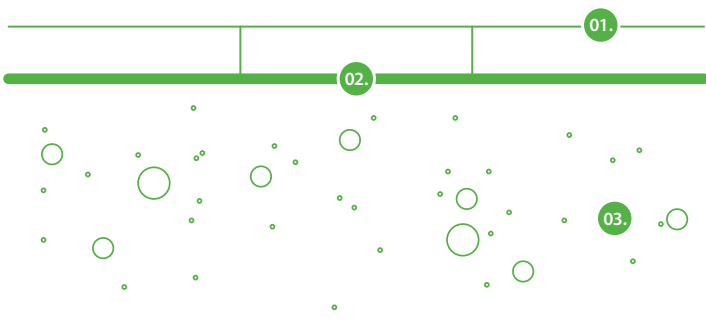
Test procedure according to ISO 10140-1:2010; ISO 10140-3:2010; ISO 10140-4:2010 and ISO 717-2:2013 standards.



$L_{n,r,0}$  – 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.

$\Delta L_w$  – Impact sound pressure level reduction index of the covering under test, on a normalized floor.

TEST APPARATUS ( $\Delta L_w$ )

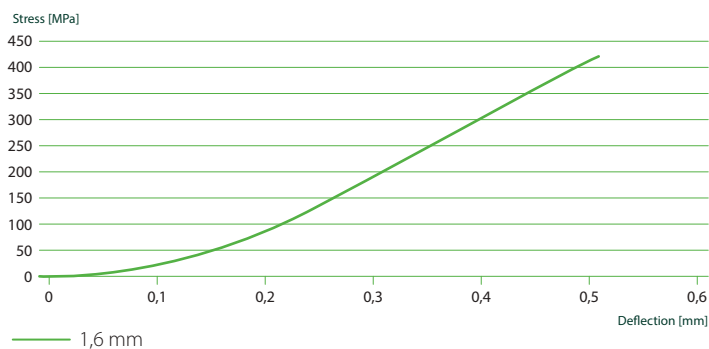
01.  
Floor covering  
composed by loose-lay  
or click system LVT

02.  
Agglomerated cork  
and recycled EVA  
resilient layer –  
Amorim CYCLEVB

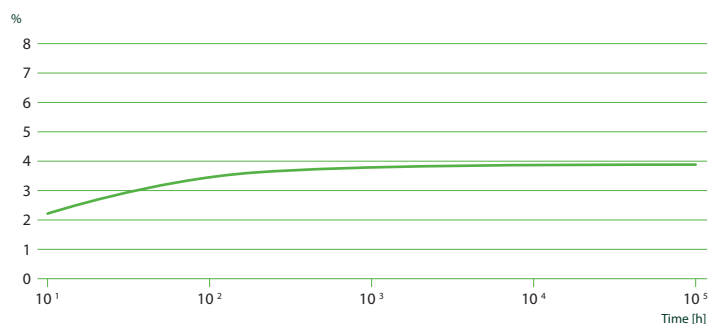
03.  
Reinforced concrete slab  
of thickness 140mm

## PHYSICAL AND MECHANICAL PROPERTIES

## COMPRESSIVE STRENGTH



## CREEP DEFLECTION @ 0.0045MPa (% OF START HEIGHT)

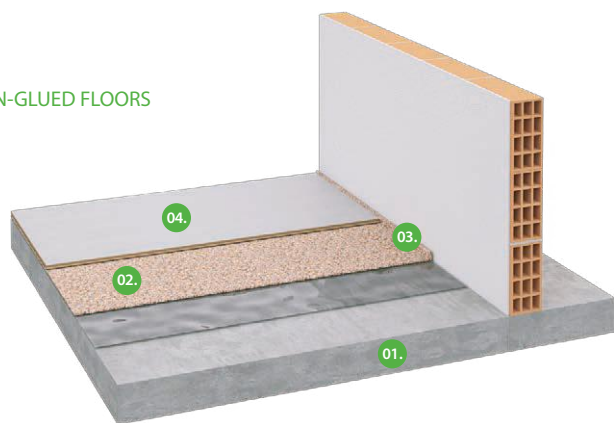


Note: Following ISO8013-1998 measured in Cantilever Test System

## APPLICATION SCHEMES

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### NON-GLUED FLOORS



01.

Reinforced  
concrete slab

02.

Underlay  
GO4CORK CYCLE VB

03.

Perimeter  
insulation barrier

04.

Floor covering  
composed of  
a non glued LVT

## GENERAL INSTALLATION INSTRUCTIONS

### GENERAL INSTALLATION INSTRUCTIONS

The following installation instructions are recommended by Amorim Cork Solutions, 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

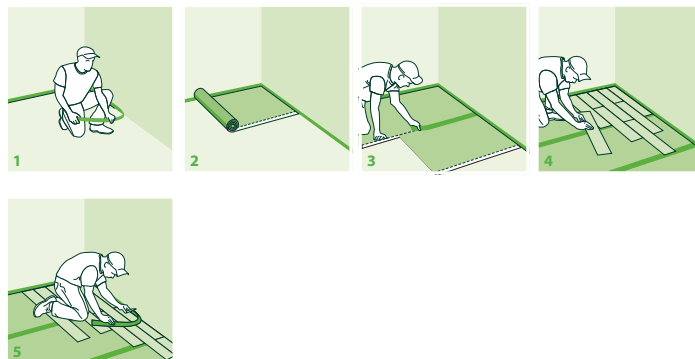
- The subfloor must be level, dry, clean and in good structural conditions. A floor is considered level if the deviation height is less than 2mm over a distance of 2.5 linear meters. Deviations above this value must be leveled out before underlay installation.
- The humidity content of the concrete substrate 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.



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CORK  
SOLUTIONS

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