



# Underlay PROTECTION SHELTER

UNDERLAY FOR ACOUSTIC INSULATION  
AND FLOORING PROTECTION

10m<sup>2</sup>

Dimension  
1x10 m

Thickness  
1.1 mm

## TECHNICAL PROPERTIES



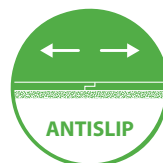
★★★★★  
Compressive  
Strength



★★★★★  
Reduction  
of impact noise



★★★★★  
Load  
resistance



★★★★★



★★★★★  
Reduction  
of footfall noise



★★★★☆  
Protection  
from damage  
from falling objects

## Material Description & Properties

Agglomerated high density cork underlay for LVT's and SPC's floor with very high load resistance, floor protection and good acoustic insulation.

### KEY FEATURES

- Produced from 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 group 2.
- Keeps the properties and performance over time.

## TECHNICAL DATA

| TEST                         | UNIT               | RESULT    |
|------------------------------|--------------------|-----------|
| Punctual conformability (PC) | mm                 | > 0.5     |
| Compressive strenght (CS)    | kPa                | > 400     |
| Compressive creep (CC)       | kPa                | TBD       |
| Impact sound (IS)            | dB                 | 16        |
| Thermal Resistance (R)*      | m <sup>2</sup> C/W | 0.017     |
| Dynamic load (DL)            | cycles             | ≥ 100 000 |

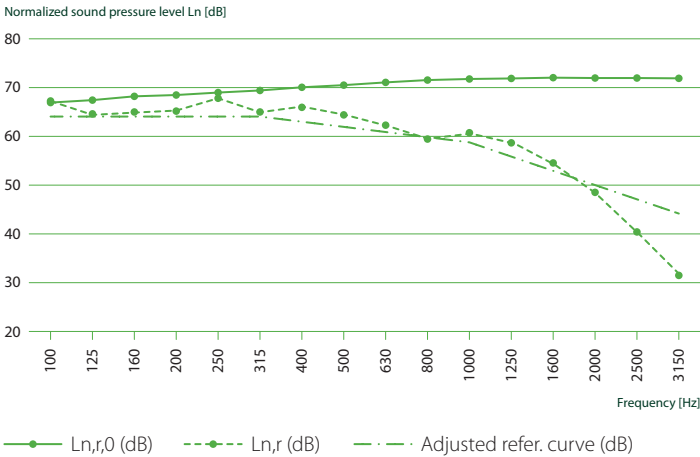
\* Suitable for underfloor heating and cooling

# ACOUSTICAL RESULTS

|                                  |   |
|----------------------------------|---|
| Flooring                         | Resilient Floor (LVT) - Hydrocork (6mm) |
| Thickness (mm)                   | 1.1                                     |
| $\Delta L_w$ (dB) <sup>(1)</sup> | 16                                      |

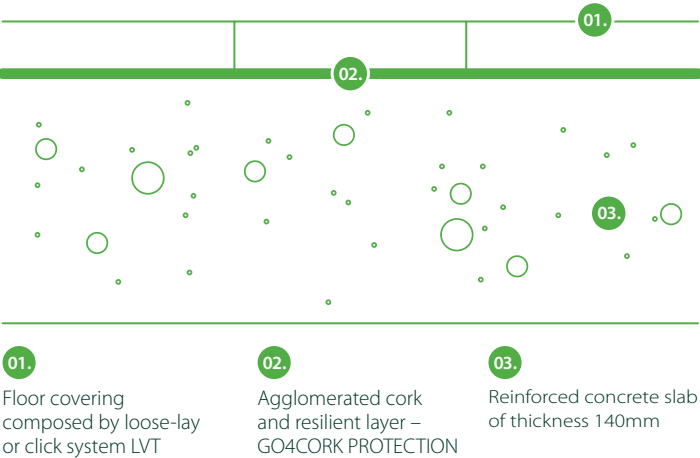
<sup>(1)</sup>ISO 10140-3 and ISO 717-2

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



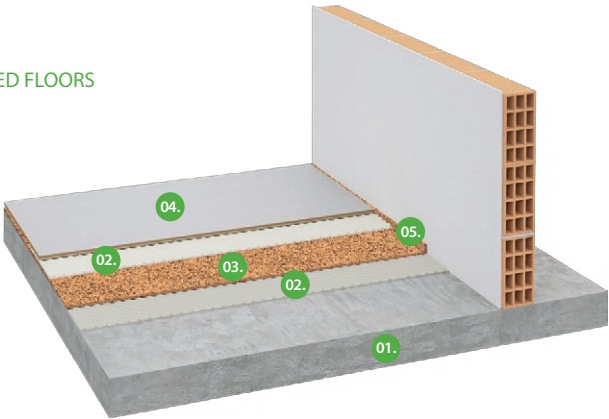
- $L_{n,r,0}$  – Normalized impact sound pressure level of the Lab reference floor.
- $L_{n,r}$  – Normalized impact sound pressure level of the reference floor with the floor covering under test.
- $\Delta L_w$  – Impact sound pressure level reduction index of the covering under test, on a normalized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

# TEST APPARATUS ( $\Delta L_w$ )

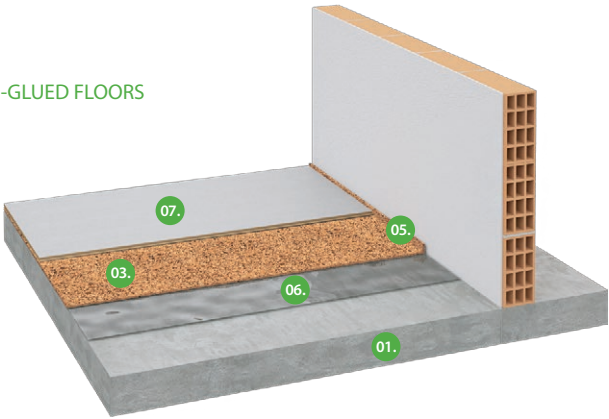


# APPLICATION SCHEMES

## GLUED FLOORS



## NON-GLUED FLOORS



- 01. Reinforced concrete slab
- 02. Adhesive (optional)
- 03. Underlay GO4CORK PROTECTION
- 04. Floor covering composed of glued LVT
- 05. Optional perimeter insulation barrier
- 06. Vapour barrier
- 07. Floor covering composed of a non glued LVT

## GENERAL INSTALLATION INSTRUCTIONS

### GENERAL INSTALLATION INSTRUCTIONS (WITH AND WITHOUT GLUE)

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, as well as the manufactures of the glue, should this be necessary.

#### 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 MOISTURE BARRIER

For floating floors you must first install a moisture barrier across the entire area of the room to minimize the risk of possible damage caused by rising damp, and then install the underlay. The barrier must be installed directly onto the surface of the subfloor, in the opposite direction you plan to install the final floor to reduce seams. This moisture barrier should have a minimum sd-value of 75 m. It should be installed following the outline of the enclosing wall, to a height of at least 30 mm and with a minimum overlap of 100mm using a suitable tape to seal seams. After finishing, the barrier must cover the entire subfloor area without any gaps. Never mechanically secure the barrier with screws, nails or staples as this may compromise its effectiveness.

#### 3. INSTALLATION OF THE UNDERLAY

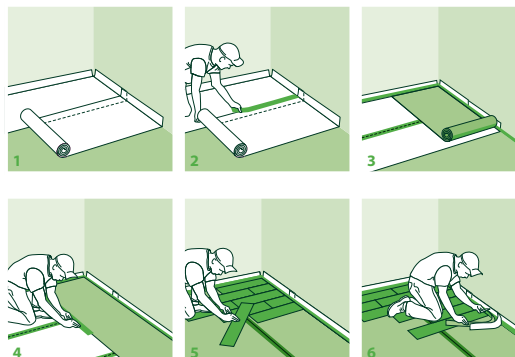
Place one roll of the underlay parallel to the wall and in the opposite direction you plan to install the final floor to reduce seams. Cut the underlay material roll to the desired length and install it directly, covering the entire surface of the room. The underlay must cover the entire area without any gaps, and be securely joined using duct tape. Never mechanically secure the underlay with screws, nails or staples as this may compromise its effectiveness. Install the flooring perpendicularly to the underlay. Always follow the flooring manufacturer's recommended installation instructions.

#### 4. GLUED DOWN INSTALLATION

Before installing the underlay, apply the glue and make sure that the surface has been treated to prevent moisture. the installation of a moisture barrier is not necessary. After applying the glue (wait 1 hour to dry), cut the underlay material roll to the desired length and install it directly, covering the entire surface. The underlay must cover the entire area without any gaps, and be securely joined using duct tape. Never mechanically secure the underlay with screws, nails or staples as this may compromise its effectiveness. Apply glue on the underlay and install the flooring perpendicularly to the underlay. Always follow the flooring manufacturer's recommended installation instructions.

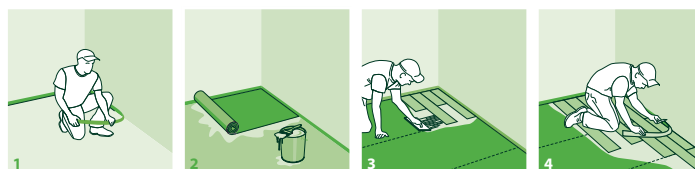
## APPLICATION PROCESS

### FLOATING INSTALLATION



1. Installation of the moisture barrier; 2. Installation of the tape on the seams ;
3. Installation of underlay; 4. Installation of the tape on joints between rolls;
5. Installation of final flooring; 6. Cutting perimeter barrier.

### GLUED DOWN INSTALLATION



1. Installation of perimeter barrier (optional); 2. Installation of underlay (glued - 1 hour to dry); 3. Installation of final flooring; 4. Removal of excessive material.



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SOLUTIONS**

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