





# Material Description & Properties

Agglomerated Cork & recycled PUR underlay for impact noise and thermal insulation.

# **KEY FEATURES**

- · Excellent acoustic insulation
- Good for use with heated floors.
- Good acoustic insulation.
- Good compensating ability on uneven surfaces.
- Resistant to ageing and deformation.
- Anti-slip underlay.

Tested according to MMFA/EPLF higher requirements group 1.

STANDARD DIMENSIONS	
Thickness (mm)	2
Width and Lenght (m)	1 x 15

TEST	LIMIT	UNIT	RESULT
Density	_	kg/m³	280 - 400
Punctual Conformability (PC)	≥ 0.5	mm	≥ 1.7
Compression Strenght (CS)	≥ 60	kPa	150
Compression Creep (CC)	≥ 20	kPa	50
Impact Sound (IS)	≥ 18	dB	20
Thermal Resistance (TR)	< 0.15	m²ºC/W	0.036
Dynamic Load (DL)	≥ 100 000	cycles	≥ 100 000

THERMAL PROPERTIES	
Thermal Conductivity	0.055 W/m°C (1)
Thermal Resistance	0.0364 m <sup>2</sup> C/W
(1) ISO 8301	

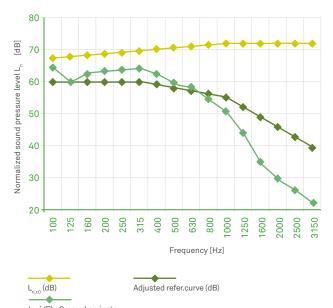
PHYSICAL AND MECHANICAL PI	ROPERTIES

Specific Weight <sup>(1)</sup>	280 - 400 kg/m³
Tensile Strength (1)	≥ 150 KPa
Compression at 0.7MPa <sup>(1)</sup>	40 - 65%
Recovery after 0.7MPa <sup>(1)</sup>	≥ 70%

<sup>&</sup>lt;sup>(1)</sup>ISO 7322

## ACOUSTICAL RESULTS

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

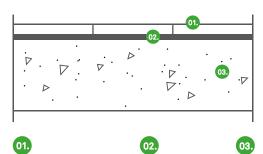


L<sub>n,r</sub>(dB) - 2mm - Laminate

 $L_{_{n,r}}$  - Normalized impact sound pressure level of the reference floor with the floor covering under test;  $L_{_{n,r0}}$  - Normalized impact sound pressure level of the Lab reference floor;  $\Delta L_{_{w}}$  - Impact sound pressure level reduction index of the covering under test, on a normalized floor;

Thickness	2 mm
Flooring	Laminate
$\Delta L_{w}(C_{L,\Delta})$	20 dB

# TEST APPARATUS (ΔL<sub>w</sub>)



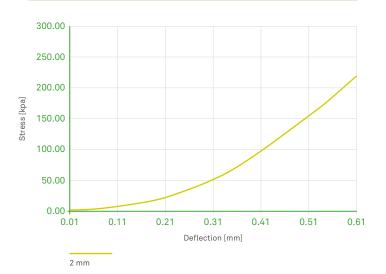
Floor covering composed by Wood or Laminate floor

02. Agglomerated cork resilient layer - PRO 85

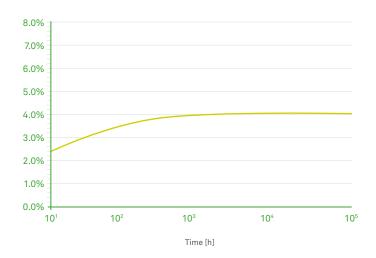
Reinforced concrete slab of thickness 140mm

## PHYSICAL AND MECHANICAL PROPERTIES

# COMPRESSIVE STRENGTH



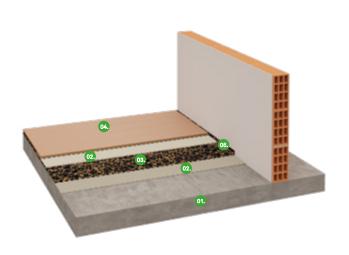
# CREEP DEFLECTION @ 50 kPa (% OF START HEIGHT)



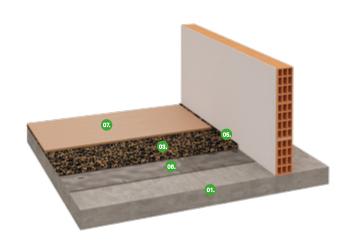
Note: Following ISO8013-1998 measured in Cantilever Test System

# INSTALLATION

# **GLUED FLOORS**



# NON GLUED FLOORS





Reinforced concrete slab



02.

Adhesive

Perimeter insulation barrier



Agglomerated cork resilient layer - PRO 85



barrier

Floor covering composed by non glued laminate floor

07.



Floor covering composed by Laminate or glued down Wood Floor

## **GENERAL INSTALLATION INSTRUCTIONS**

The following installation instructions are recommended by Amorim Cork Composites, but are not intended as a definitive project specification. They are presented in an attempt to be used with recommended installation procedures of the flooring manufacturers.

## **Room Conditions**

Temperature > 10°C / Room moisture content < 75%.

#### Subfloor

All subfloor work should be structurally sound, clear and level. The moisture content of the subfloor should not be more than 2.5% (CM) by weight measured on concrete subfloors.

## Vapor Insulation Barrier (only for Non Glued Floors)

PE (Polyethylene) vapor insulation barrier covering the entire flooring area, minimum 50mm wide vertically around the perimeter of the entire floor MUST be installed prior to the Amorim PRO 85.

Install by overlapping (minimum 100mm) the PE foil, and use an adequate tape to adhere/fix it, if necessary. After completion, PE foil should cover the entire concrete area without gaps. Never mechanically fasten the PE foil barrier with screws, nails or staples as this will severely diminish the performance of the insulation barrier.

#### **Installation Instruction for Amorim PRO 85**

Unpack the Amorim PRO 85 at least 24h before the installation and store it in the room where the installation will take place. Cut the Amorim PRO 85 to desired length and install directly over the entire floor pulled 30mm up the walls with crown of the rolled materials up, removing all traped air.

An independent perimeter insulation barrier can be installed around the entire perimeter of the room with width equal to that of the floor build up.

Both solutions are valid, the most important is to avoid lateral propagation of impact noise. The barrier must also be applied in the perimeter of pipes, ducts or any other component protruding from the floor. Spot adhere the strips to the wall using acrylic glue or a bead of silicone sealant.

After completion, the Amorim PRO 85 should cover the entire flooring area without gaps and with joints butted tight and preferably taped.

## Final Flooring

Always follow manufacturers recommended installation instructions.

#### Recommended Adhesives:

Wood floor to Amorim PRO 85: Water-Based Emulsion/Polyurethane Glue; Vinyl and linoleum to Amorim PRO 85: Water-Based Emulsion/Synthetic Resin Glue;

Ceramic to Amorim PRO 85k: Flexible Cement Glue;

Amorim PRO 85 to slab/screed: Water-Based Emulsion/Acrylic Adhesives;

#### **Application Process**

#### NON GLUED FLOORS











1. Vapor insulation barrier application; 2. Perimeter barrier application; 3. Underlay application; 4. Tape application in joints between rolls; 5. Final floor application; 6. Perimeter insulation barrier cut.

## **GLUED FLOORS**









- Perimeter barrier application;
   Underlay application (glued);
- 3. Final floor application (glued); 4. Perimeter insulation barrier cut.

#### **Important Notes**

Never mechanically fasten the Amorim PRO 85 to the flooring floor as this will severaly diminish its acoustical value.

For detailed installation instructions, please contact us.













The mark of responsible forestry



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 equipments 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).