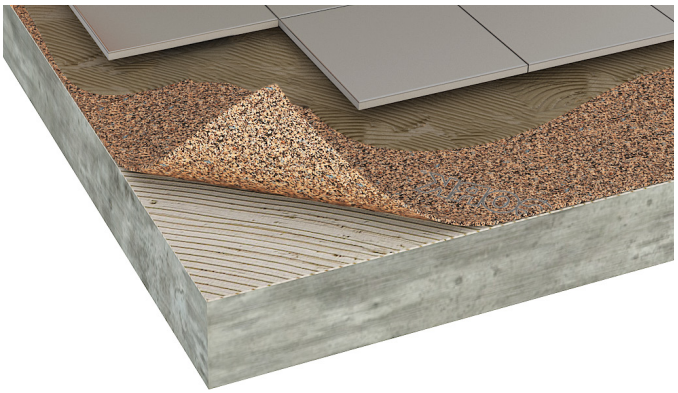
AcoustiCORK® by Amorim

TECHNICAL DATA SHEET

T66 PERFORMANCE

Agglomerated cork and recycled rubber underlayment for impact, noise and thermal insulation



PRODUCT SPECIFICATION

Resilient acoustic underlay made of agglomerated cork and recycled SBR (Styrene Butadiene Rubber) with PU (polyurethane) elastomer bonding agent for impact noise insulation for different types of flooring, with a density up to 650kg/m³.

KEY FEATURES

- Homogeneous material produced from cork and recycled rubber granules with the same size (0.5-1mm)
- High durability and long term resilience
- High performance with reduced thickness
- Low residual indentation and free of migration of plasticizers

PHYSICAL AND MECHANICAL PROPERTIES

Specific Weight (Kg/m³ | lb/ft³) ①	560–650 | 35–40
Tensile Strength (KPa) ①	> 600
Compression at 0.7MPa (%) ①	15–30
Recovery after 0.7MPa (%) ①	> 75

① ISO 7322

TECHNICAL PROPERTIES

Flooring		Ceramic/Natural Stone		Wood	
Thickness	mm	4.5	3.0	3.0	2.0
Thermal Resistance	m².ºC/W	0.037	0.024	0.024	0.016
Floor Durability					
Punctual Conformability (PC)	mm	NA	NA	—	—
Compressive Strength (CS)	kPa	NA	NA	> 200	> 200
Compressive Creep (CC)	kPa	TBD	TBD	TBD	> 140
Water Vapor Resistance (SD)	m	NA	NA	—	> 75
Vapor Barrier		NA	NA	O	●

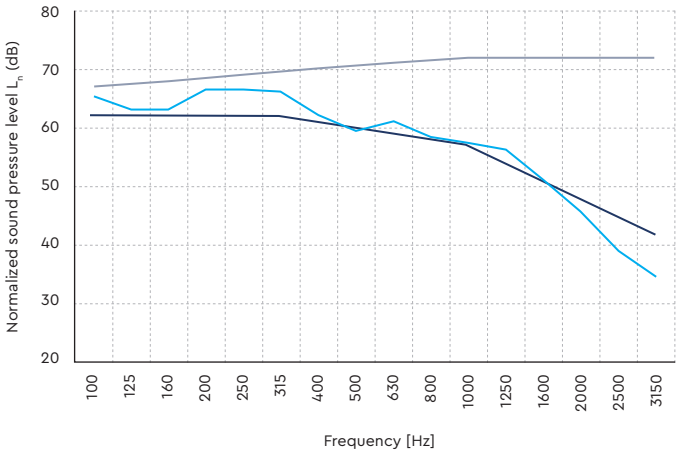
TBD To be determined **NA** Not applicable ● Yes O No

ACOUSTIC RESULTS

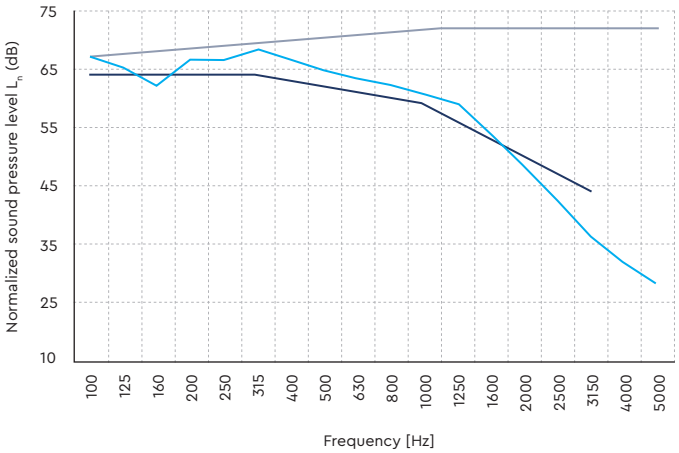
Flooring		Ceramic	Ceramic	Wood	Wood	Engineering wood
Flooring Thickness	mm	9	9.5	21	12	20
Underlayment Thickness	mm	4.5	3	3	3	2
Impact Insulation (IS) ①	dB (ISO)	18	16	16	19	18
Impact Insulation IIC | ΔIIC ②	dB (ASTM)	— | —	— | —	— | —	— | —	50 | 22
Sound Transmission (STC) ③	dB (ASTM)	—	—	—	—	—
System (Glued | Floating)		Glued	Glued	Glued	Floating	Glued
System (Ceiling)		○	○	○	○	○

① Standard ISO 717-2:2013 ② Standard ASTM E413 ③ Standard ASTM E989-89 ● Yes ○ No

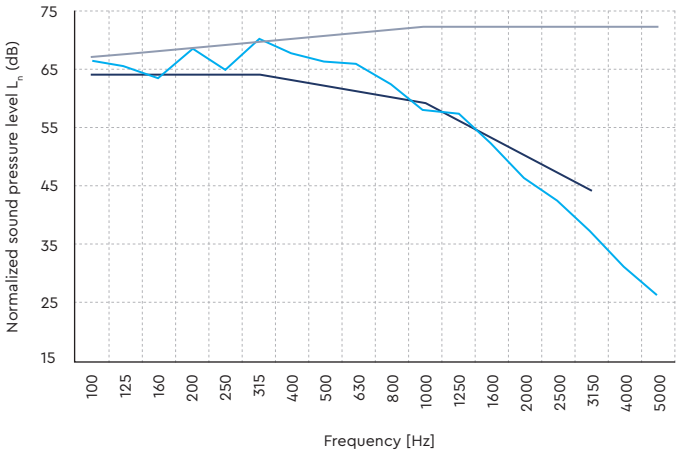
Ceramic 4.5 mm



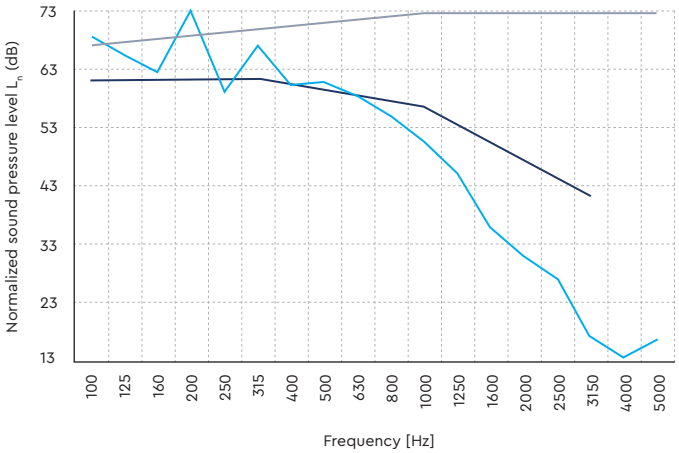
Ceramic 3 mm



Wood glued 3 mm

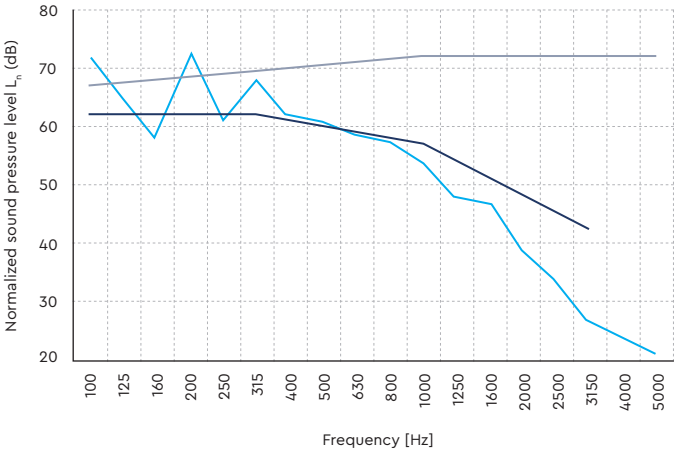


Wood floating 3 mm

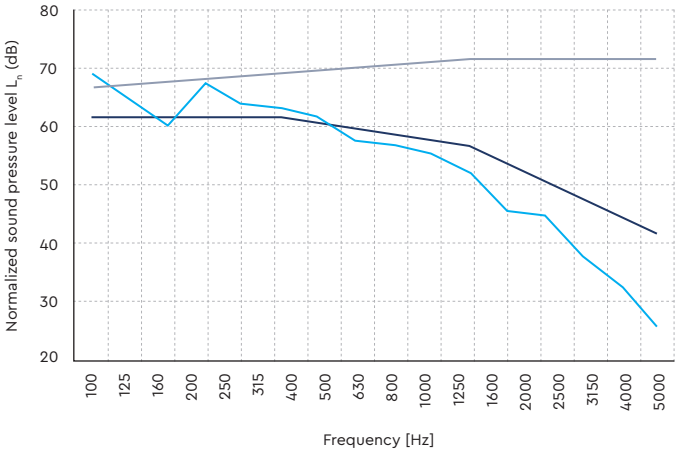


ACOUSTIC RESULTS

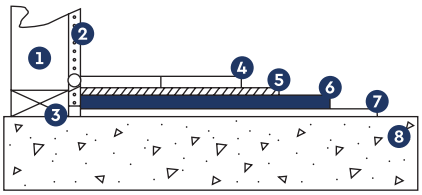
Wood glued 2 mm



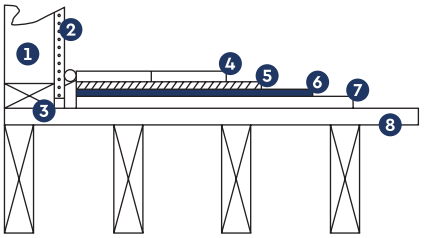
Wood glued 2 mm



TEST APPARATUS (ΔL_w)



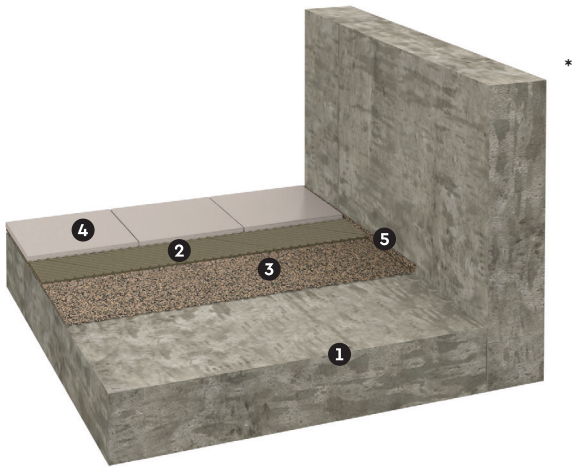
1. Wall
2. Wall board
3. Perimeter isolation barrier (optional)
4. Ceramic tile, natural stone or wood
5. Adhesive (recommended flooring producer)
6. Acousticork T66
7. Adhesive (recommended flooring producer)
8. Subfloor concrete slab



1. Wall
2. Wall board
3. Perimeter isolation barrier (optional)
4. Ceramic tile, natural stone or wood
5. Adhesive (recommended flooring producer)
6. Acousticork T66
7. Gypsum board
8. Subfloor · plywood

INSTALLATION

GLUED FLOORS



1. Reinforced concrete slab
2. Cement glue
3. Agglomerated cork resilient layer – Acousticork T66
4. Floor covering composed by glued down wood, ceramic or nature stone

NON GLUED FLOORS

5. Perimeter insulation barrier (optional)
6. Vapor barrier (for wood based flooring)
7. Floor covering composed by non glued wood floor

*Product images and illustrations are for illustrative purposes only.

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 installer.

Final Flooring

Always follow manufacturers recommended installation instructions, particularly when adhesives are recommended.

Recommended Adhesives

Wood floor to Acousticork: Water-Based Emulsion/Polyurethane Glue;

Ceramic to Acousticork: Flexible Cement Glue.

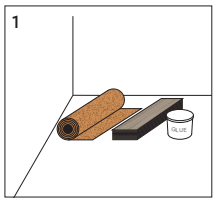
Important Notes

Never mechanically fasten the Acousticork T66 to the flooring floor as this will severaly diminish its acoustical value.

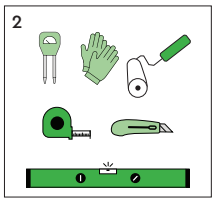
For more detailed installation instructions, please contact us.

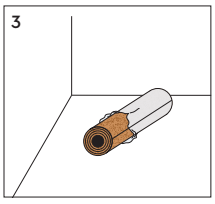
Never install a wood or laminate floor without vapor barrier (integrated or applied before the underlayment).

APPLICATION PROCESS · GLUED FLOOR

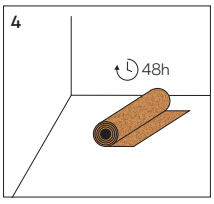


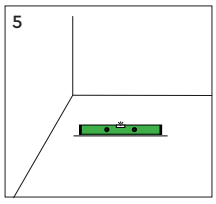
These are all the materials needed to install the underlayment.

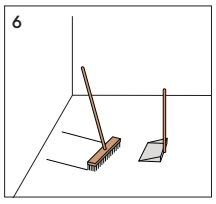




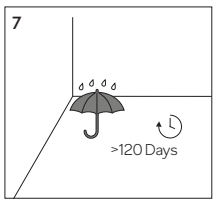
For the installation process, open the packaging 48 hours in advance and leave for acclimatization



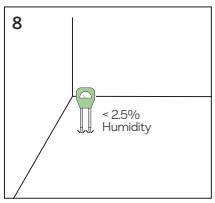




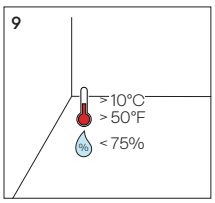
Subfloor preparation: Make sure that the subfloor is leveled, dry, clean and in good structural conditions.



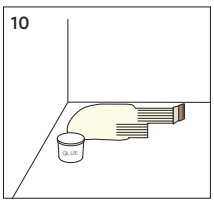
New concrete slabs must be left to cure for 120 days before installation.



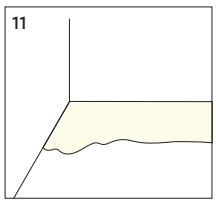
The humidity content of the substrate is critical: it must not exceed 2.5 % (MC).



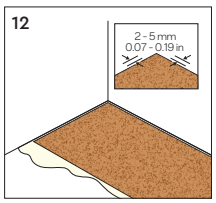
Air temperature should be above 10°C and air humidity below 75%.



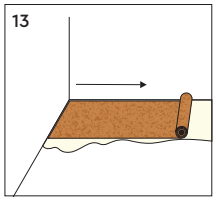
Optional step: apply the glue using a trowel. The installation of a moisture barrier is not necessary.



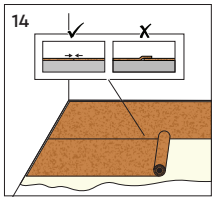
Optional step: we recommend the use of an adequate glue for the flooring to be installed.



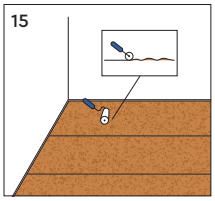
Install the underlayment directly on the adhesive, leave a space between the wall and the underlayment.



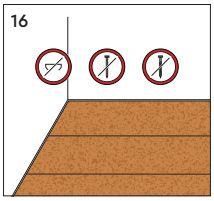
The underlayment should be installed in a perpendicular direction that you plan to install the final floor.



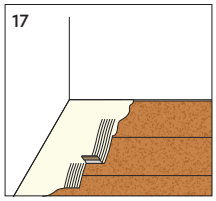
The underlay must cover the entire area without any gaps nor overlaps.



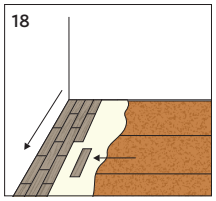
Use the paint roller to make sure the underlayment doesn't have any waves.



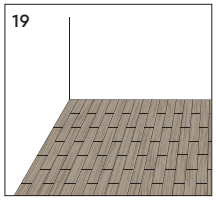
Never mechanically secure the underlayment with screws, nails or staples, since this may undermine its effectiveness.



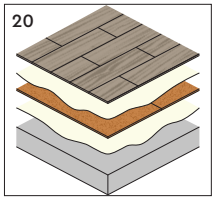
Apply the same glue on the underlayment.



Install the flooring in a perpendicular direction to the underlayment, and let the whole floor dry completely before you start to use it.



Always follow the flooring manufacturer's recommended installation instructions.



Total System.

For more information about this installation process and for non glued floors, access here

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