

# T61 BALANCE

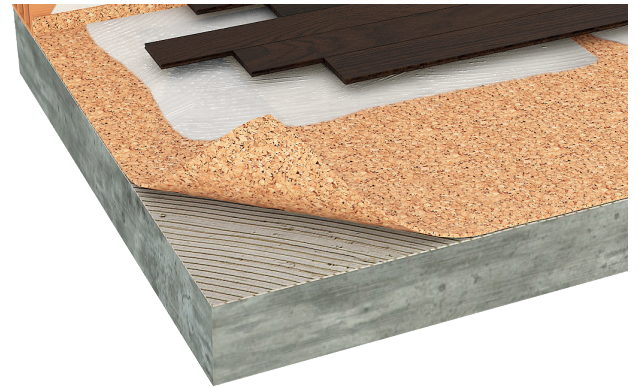
## Agglomerated cork underlayment for impact noise and thermal insulation

### PRODUCT SPECIFICATION

Resilient acoustic underlayment made of agglomerated cork with PU (polyurethane) elastomer bonding agent for impact noise insulation for ceramic, natural stone and wood-based floors, with a density up to 220kg/m<sup>3</sup>.

### KEY FEATURES

- ▶ Impact noise reduction and thermal insulation properties
- ▶ High durability and long term resilience
- ▶ High performance with reduced thickness
- ▶ Tested according to MMFA/EPLF requirements group 1
- ▶ Natural material



### PHYSICAL AND MECHANICAL PROPERTIES

Specific Weight (kg/m <sup>3</sup>   lb/ft <sup>3</sup> ) ①	150–220   9–14
Tensile Strength (kPa) ①	> 200
Compression at 0.7MPa (%) ①	30–50
Recovery after 0.7MPa (%) ①	> 70

① ISO 7322

### TECHNICAL PROPERTIES

Flooring	Ceramic/Natural Stone		Wood				
	mm	6.0	6.0	3.0	3mm perforated	2.5/1.5 mm profile	2.0 mm
Thickness	mm	6.0	6.0	3.0	3mm perforated	2.5/1.5 mm profile	2.0 mm
Thermal Resistance (TR) ①	m <sup>2</sup> .°C/W	0.137	0.137	0.069	—	—	0.046
Floor Durability							
Punctual Conformability (PC) ①	mm	NA	> 1.0	> 0.5	NA	NA	> 0.5
Compressive Strength (CS) ①	kPa	NA	> 200	> 200	200	200	> 200
Compressive Creep (CC) ①	kPa	—	> 60	—	> 50	—	> 140
Water Vapor Resistance (SD) ①	m	NA	—	—	—	—	> 75
Vapor Barrier		NA	○	○	○	○	●

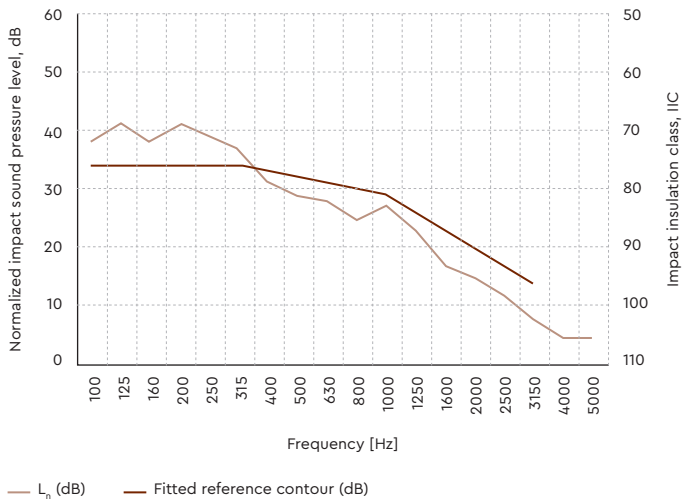
① EN 16354    TBD To be determined    NA Not applicable    ● Yes    ○ No

## ACOUSTIC RESULTS

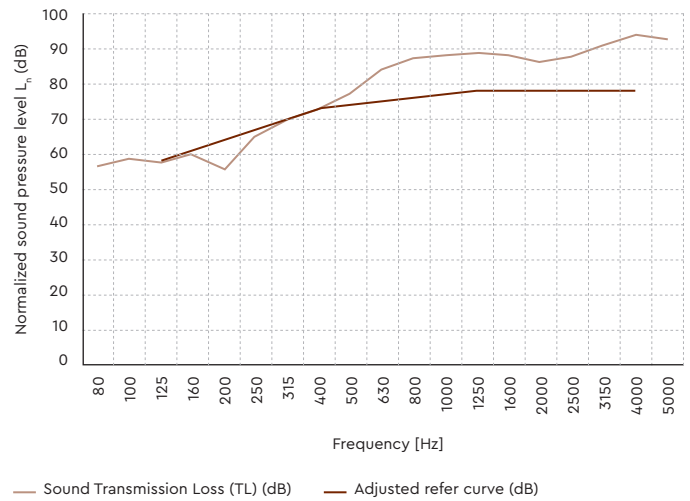
Flooring		Ceramic			Wood					Engineered wood	Wood/cork laminate
Flooring Thickness	mm	10	9	9.5	21	21	23	21	21	15	12
Underlayment Thickness	mm	6	4.5	3	6	3	3	3	2	3	2.5/1.5
Impact Insulation (IS) <sup>①</sup>	dB (ISO)	—	17	16	—	39	16	—	—	18	20
Impact Insulation IIC   $\Delta$ IIC <sup>②</sup>	dB (ASTM)	78   —	—   —	—   —	76   —	—   —	—   —	75   37	76   38	—   —	—   —
Sound Transmission (STC) <sup>③</sup>	dB (ASTM)	74	—	—	75	—	—	77	77	—	—
System (Glued   Floating)		Glued	Glued	Glued	Glued	Glued	Glued	Floating		Glued	Floating
System (Ceiling)		●	○	○	●	●	○	●	○	○	○

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

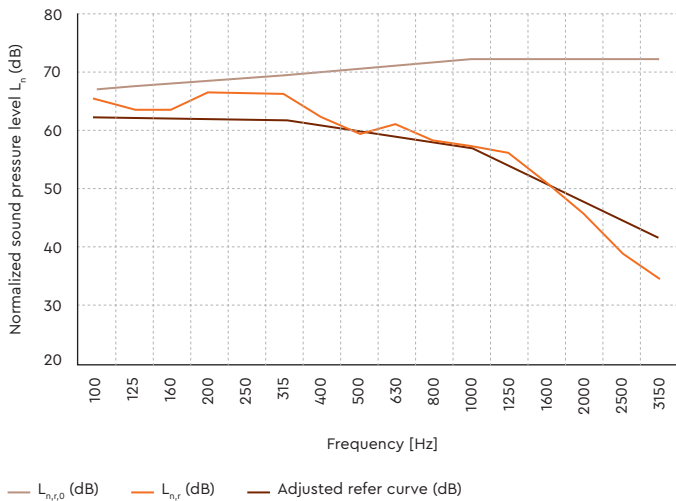
Impact Insulation Class (IIC) · Ceramic floor (10mm)  
· T61 (6mm) · With ceiling and glued



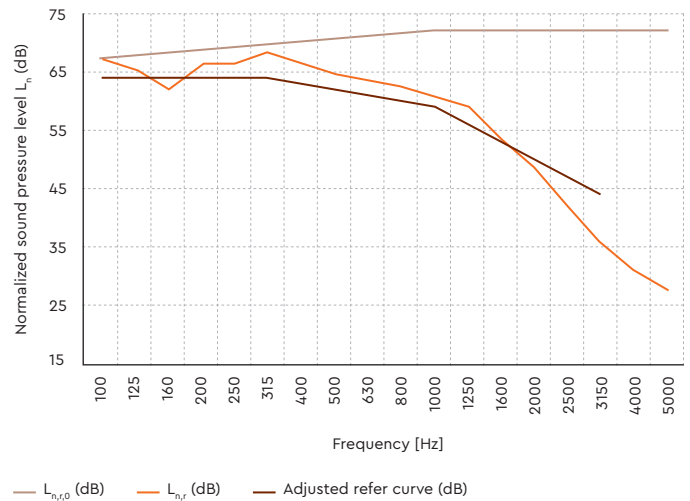
Sound Transmission Class (STC) · Ceramic floor (10mm)  
· T61 (6mm) · With ceiling and glued



Impact Insulation (ISO) · Ceramic floor (9mm)  
· T61 (4.5mm) · Glued

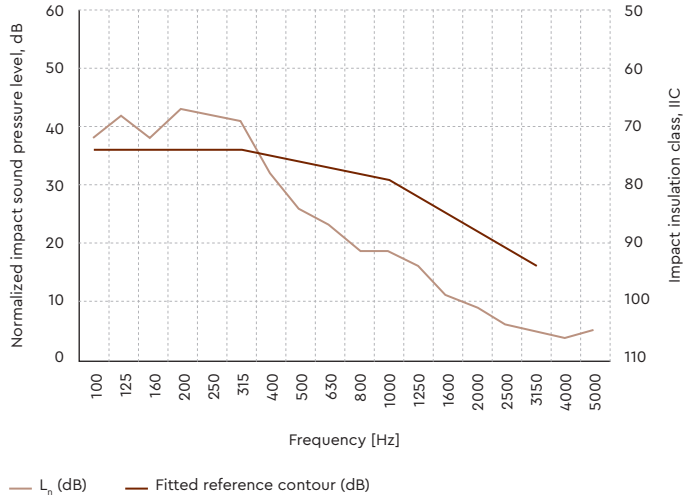


Impact Sound (IS) · Ceramic floor (9.5mm)  
· T61 (3mm) · Glued

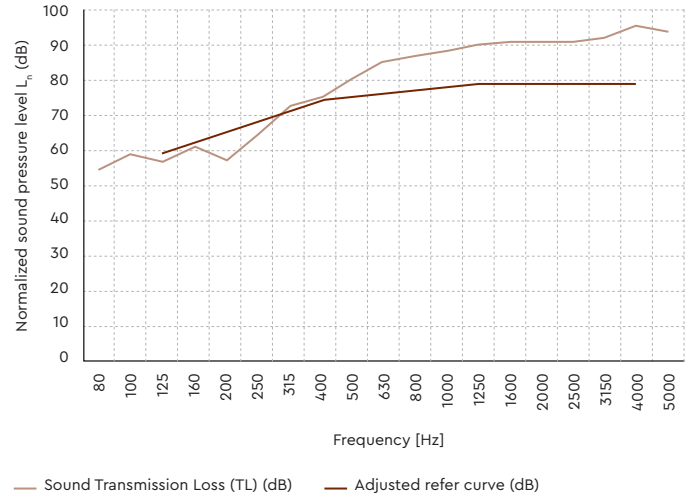


**ACOUSTIC RESULTS**

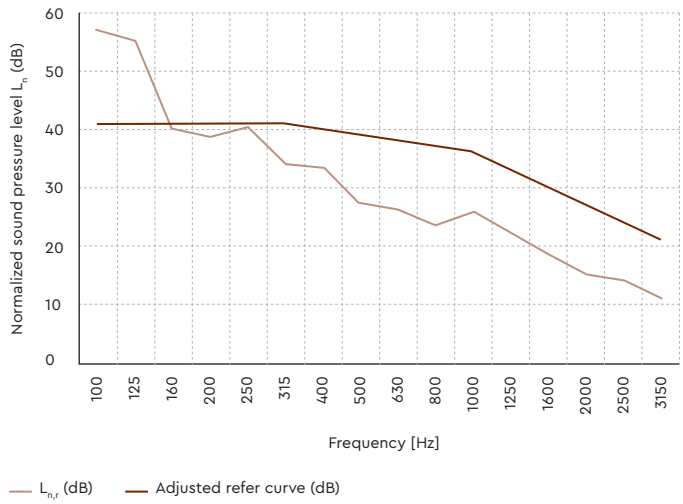
Impact Insulation Class (IIC) · Wood floor (21mm)  
· T61 (6mm) · With ceiling and glued



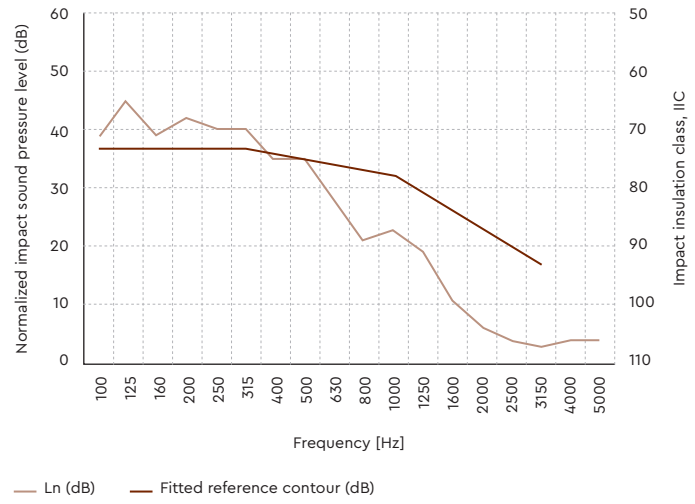
Sound Transmission Class (STC) · Wood Floor (21mm)  
· T61 (6mm) · With ceiling and glued



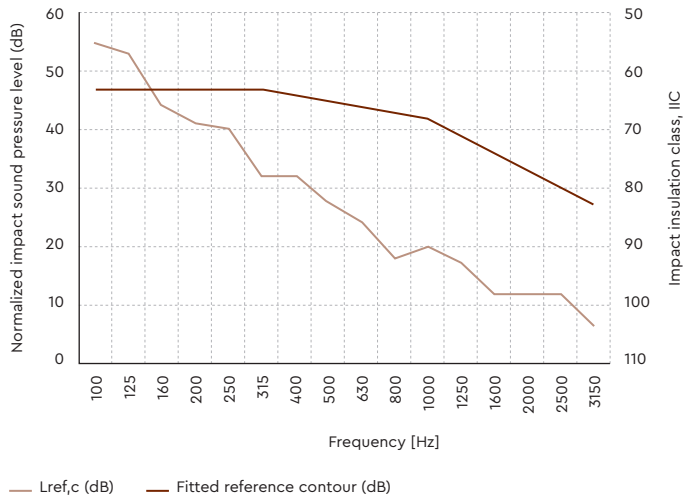
Impact Insulation Class (IIC) · Wood floor (21mm)  
· T61 (3mm) · With ceiling and glued



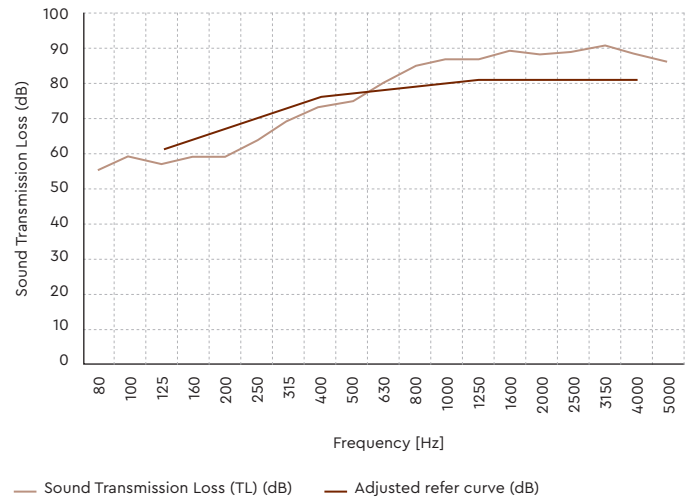
Impact insulation class (IIC) · Wood floor (21mm)  
· T61 (3mm) · Floating & Ceiling



Delta Impact insulation class ( $\Delta$ IIC) · Wood floor (21mm)  
· T61 (3mm) · Floating & Ceiling

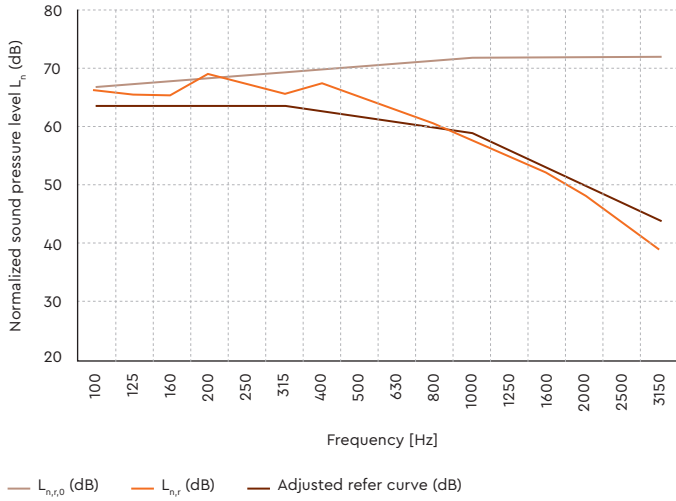


Sound transmission class (STC) · Wood floor (21mm)  
· T61 (3mm) · Floating & Ceiling

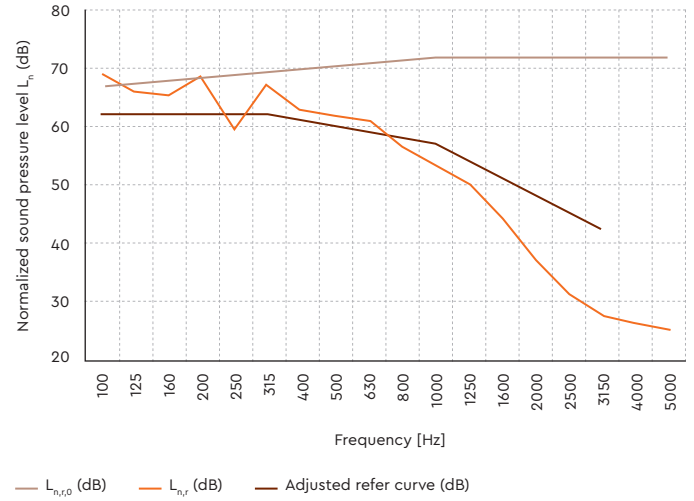


## ACOUSTIC RESULTS

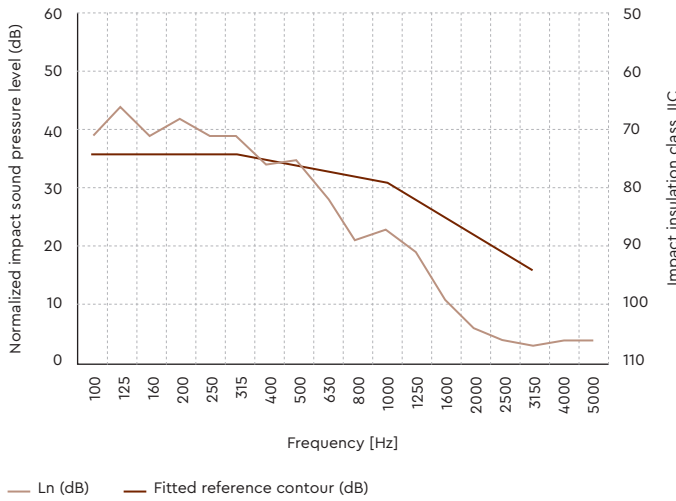
Impact Insulation (ISO) · Wood floor (23mm)  
· T61 (3mm) · Glued



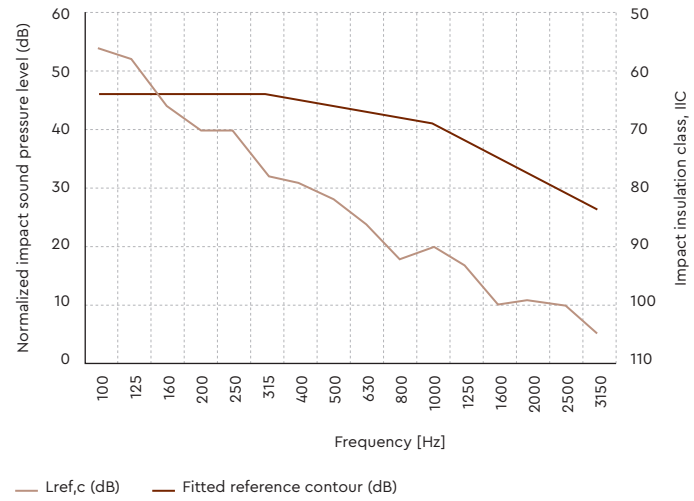
Impact Sound (IS) · Engineered wood (15mm)  
· T61 (3mm perforated) · Glued



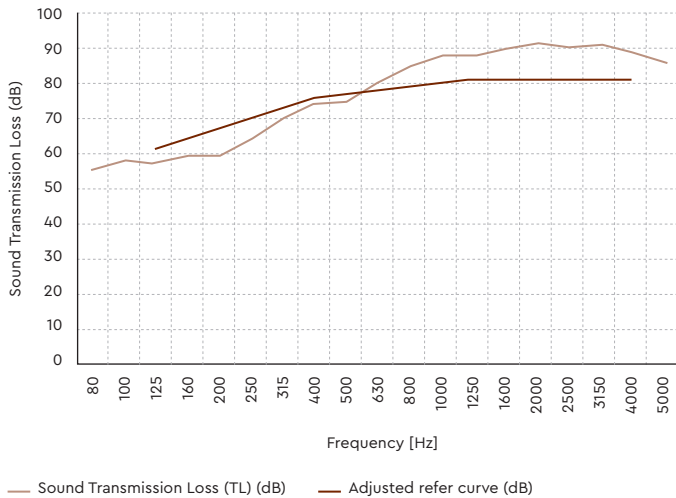
Impact insulation class (IIC) · Wood floor (21mm)  
· T61 (2mm) · Floating & Ceiling



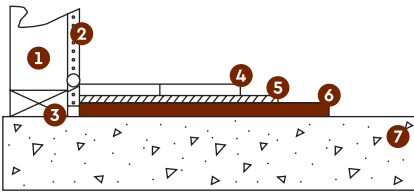
Delta Impact insulation class ( $\Delta$ IIC) · Wood floor (21mm)  
· T61 (2mm) · Floating & Ceiling



Sound transmission class (STC) · Wood floor (21mm)  
· T61 (2mm) · Floating & Ceiling



## TEST APPARATUS ( $\Delta L_w$ )



- 1 Wall
- 2 Wall board
- 3 Perimeter isolation barrier (optional)
- 4 Wood, ceramic tile or natural stone
- 5 Adhesive (recommended flooring producer)
- 6 Acousticork T61
- 7 Subfloor concrete slab

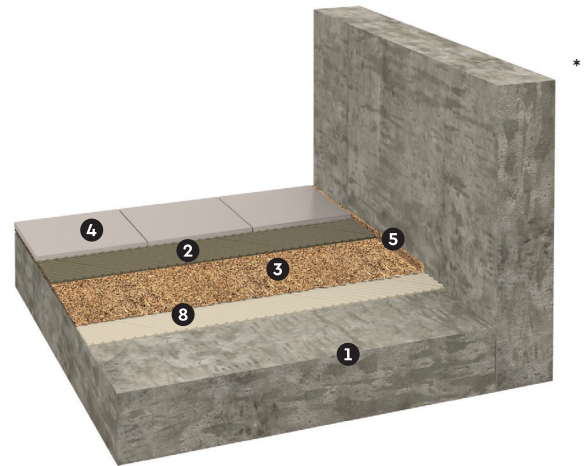
## INSTALLATION

### NON GLUED FLOOR



- 1 Reinforced concrete slab
- 2 Adhesive
- 3 Agglomerated cork resilient layer – Acousticork T61
- 4 Floor covering composed by glued down wood, ceramic or nature stone

### GLUED FLOORS



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

\*Product images and illustrations are for illustrative purposes only.

## GENERAL INSTALLATION INSTRUCTIONS

The following installation instructions are recommended by Amorim Cork Solutions, 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.

Ceramic to Acousticork: Flexible Cement Glue.

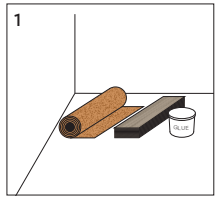
### Important Notes

Never mechanically fasten the Acousticork T61 to the flooring floor as this will severely diminish its acoustical value.

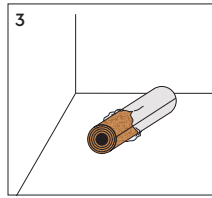
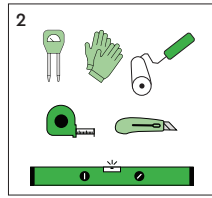
For more detailed installation instructions, please contact us.

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

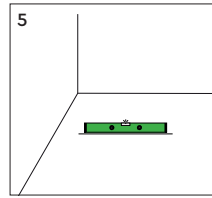
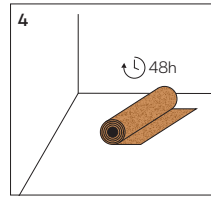
## APPLICATION PROCESS · GLUED FLOOR



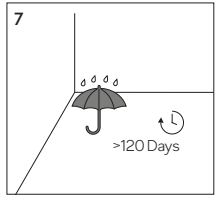
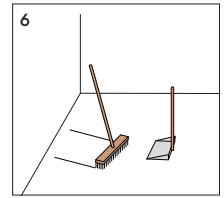
These are all the materials needed to install the underlayment.



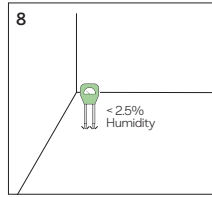
For the installation process, open the packaging 48 hours in advance and leave for acclimatization



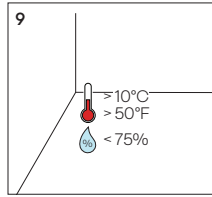
Subfloor preparation: Make sure that the subfloor is leveled, dry, clean and in good structural conditions.



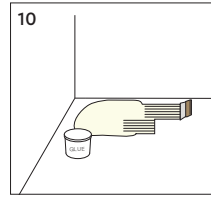
New concrete slabs must be left to cure for 120 days before installation.



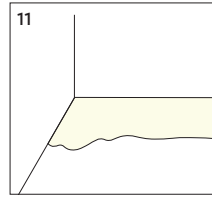
The humidity content of the substrate is critical: it must not exceed 2.5% (MC).



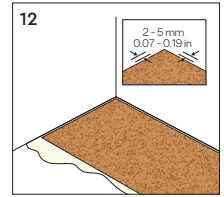
Air temperature should be above 10°C and air humidity below 75%.



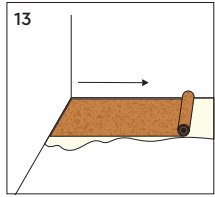
Optional step: apply the glue using a trowel. The installation of a moisture barrier is not necessary.



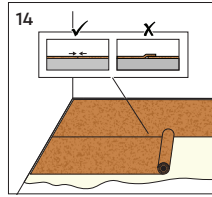
Optional step: we recommend the use of an adequate glue for the flooring to be installed.



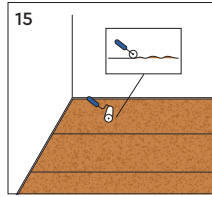
Install the underlayment directly on the adhesive, leave a space between the wall and the underlayment.



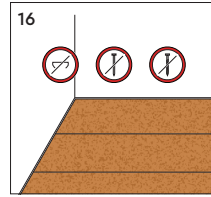
The underlayment should be installed in a perpendicular direction that you plan to install the final floor.



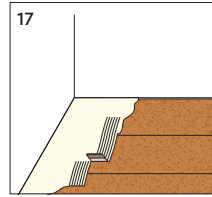
The underlay must cover the entire area without any gaps nor overlaps.



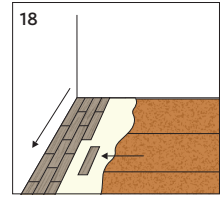
Use the paint roller to make sure the underlayment doesn't have any waves.



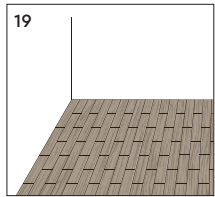
Never mechanically secure the underlayment with screws, nails or staples, since this may undermine its effectiveness.



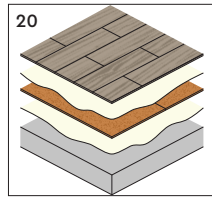
Apply the same glue on the underlayment.



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.

## TECHNICAL DATA SHEET T61 BALANCE

The data provided in this Technical 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 Solutions regarding specific application recommendations. Amorim Cork Solutions expressly disclaims all warranties, including any implied warranties or merchantability or of fitness for a particular purpose. Amorim Cork Solutions is not liable for any indirect special, incidental, consequential, or punitive damages as a result of using the information listed in this TDS. 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).