

T66

Material Data Sheet



Produced from Recycled and Natural Materials
Impact Noise Reduction and
Thermal Insulation Properties
High Durability and Long Term Resilience

Amorim Cork Composites is member of
MEAS - Middle East Acoustic Society



PRODUCT DESCRIPTION AND TECHNICAL SPECIFICATION

Agglomerated cork and recycled rubber underlay for impact noise and thermal insulation.
“___mm resilient acoustic underlay made of agglomerated cork and recycled SBR (Stirene Butadiene Rubber) with PU elastomer bonding agent for impact noise insulation for different types of flooring, with a density of 650kg/m³ and an impact noise reduction ΔL_w of ___dB”



THERMAL PROPERTIES

Thermal Conductivity: 0,08 W/mK ⁽¹⁾

⁽¹⁾ ISO 8301



PHYSICAL AND MECHANICAL PROPERTIES

Specific Weight ⁽¹⁾	Compression at 0,7MPa ⁽¹⁾	Recovery after 0,7MPa ⁽¹⁾
600 - 700 Kg/m ³	15%	> 75%

⁽¹⁾ ISO 7322



ACOUSTICAL RESULTS

Flooring	Thickness (mm)	ΔL_w (dB) ⁽¹⁾	IIC (dB) ⁽²⁾
Non Glued Laminate	3	19	47
	4,5	20	53
Glued Down Wood	3	16	50
	3	16	51
Ceramic (or Natural Stone)	4,5	18	52
	3	19	51
LVT	3	19	51

⁽¹⁾ ISO 10140-3 and ISO 717-2 • ⁽²⁾ ASTM E492-09 & ASTM E989-06



STANDARD DIMENSIONS

Thickness (mm)	3	4,5
Width (m) x Length (m)	1 x 10	1x10

Others sizes available upon request



CASTOR CHAIR RESISTANCE

Pass ⁽¹⁾

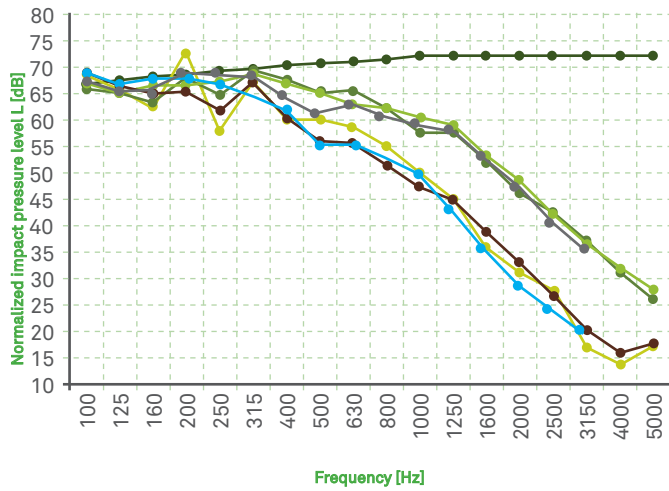
⁽¹⁾ EN425-2002





ACOUSTICAL RESULTS

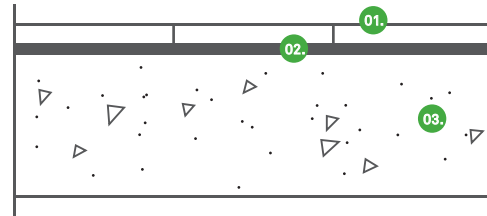
Test procedure according to ISO 10140-1:2010; ISO 10140-3:2010; ISO 10140-4:2010 and ISO 717-2:2013 standards.



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



TEST APPARATUS (ΔL_w & IIC)



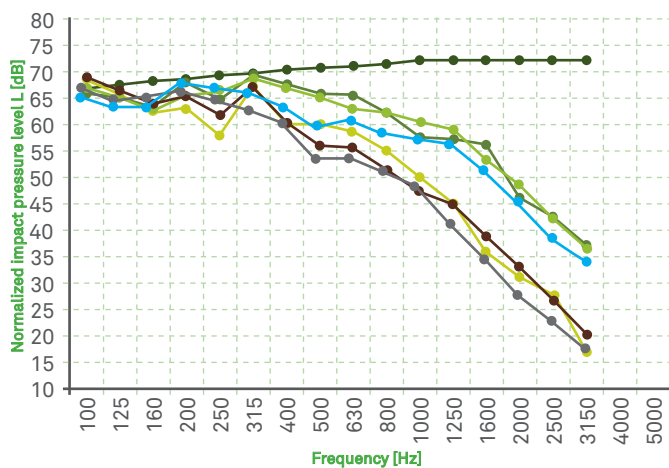
- 01. Floor covering composed by glued down wood, non glued laminate floor or ceramic or natural stone tiles
- 02. Agglomerated cork and recycled rubber resilient layer - T66
- 03. Reinforced concrete slab of thickness 140mm

Ref. Test Report	Thickness	Flooring	$L_{n,r,w}(C_{l,r})$	$\Delta L_w(C_{l,\Delta})$
ACU 337/11	3 mm	Non Glued Laminate	59 (2) dB	19 (-13) dB
ACL 127/15		Glued Down Wood	62 (0) dB	16 (-11) dB
ACL 203/14		Ceramic (or Natural Stone)	62 (-1) dB	16 (-10) dB
ACL 199/14	4,5 mm	LVT	59 (0) dB	19 (-11) dB
ACL 063/17		Ceramic	60 (-1) dB	18 (-10) dB
ACL 062/17		Non Glued Laminate	58 (0) dB	20 (-11) dB



ACOUSTICAL RESULTS

Test procedure according to ISO 10140-1:2010; ISO 1040-3:2010 and ISO 10140-4:2010 standards. Normalized impact sound pressure level and IIC rating determined according ASTM E492-09 and ASTM E989-06 standards.



L_{ref} - Normalized impact sound pressure level of the reference floor with the floor covering under test;
 $L_{ref,c}$ - Normalized impact sound pressure level of the Lab reference floor;

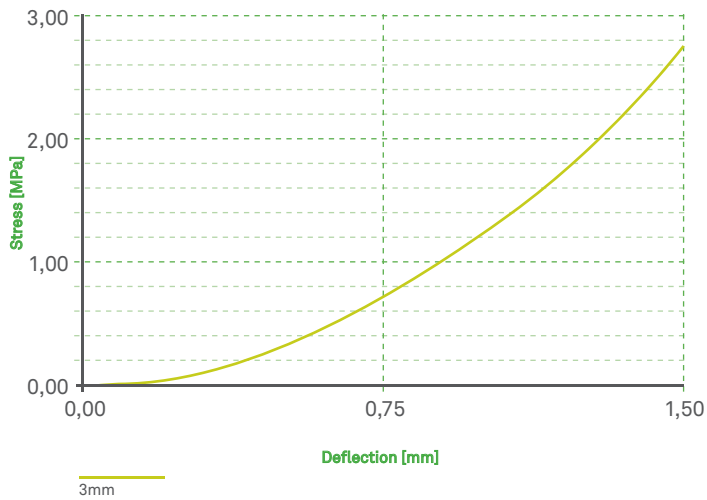


Thickness	Flooring	IIC _c
3 mm	Non Glued Laminate	47 dB
3 mm	Glued Down Wood	50 dB
3 mm	Ceramic (or Natural Stone)	51 dB
3 mm	LVT	51 dB
4,5 mm	Ceramic (or Natural Stone)	52 dB
4,5 mm	Non Glued Laminate	53 dB

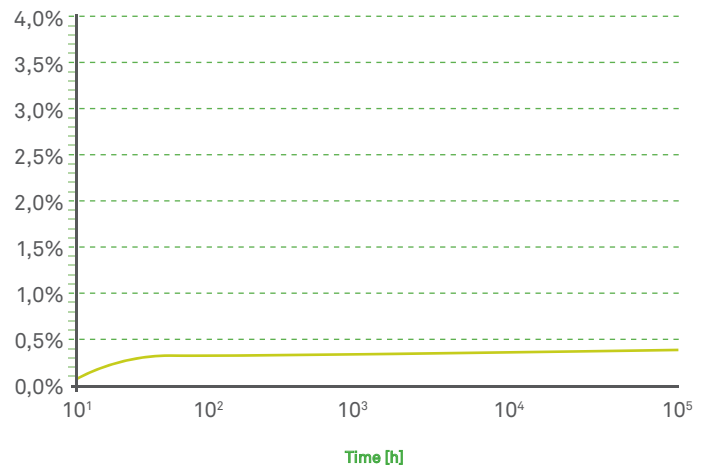


PHYSICAL AND MECHANICAL PROPERTIES *4,5mm tests being performed

LOAD DEFLECTION



CREEP DEFLECTION @ 0,0045MPa (% OF START HEIGHT)



Note: Following ISO8013-1998 measured in Cantilever Test System

DYNAMIC STIFFNESS

Test procedure according ISO 9052-1 and ISO 7626-5 standards.

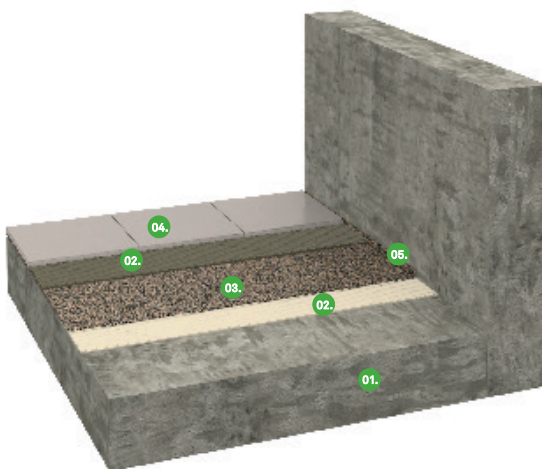
Thickness (mm)	Dynamic Stiffness (MN/m ³)
3	98
4,5	*

* tests being performed

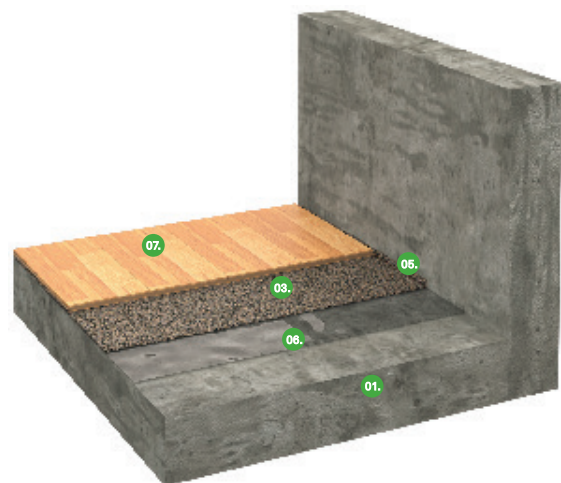


INSTALLATION

GLUED FLOORS



NON GLUED FLOORS



- 01.** Reinforced concrete slab
- 02.** Adhesive
- 03.** Agglomerated cork and recycled rubber resilient layer - T66
- 04.** Floor covering composed by glued down wood, ceramic or nature stone
- 05.** Perimeter insulation barrier
- 06.** Vapor barrier
- 07.** Floor covering composed by non glued laminate floor



T66

UNDERLAY

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 Acousticork T66.

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 Acousticork T66

Unpack the Acousticork T66 at least 24h before the installation and store it in the room where the installation will take place. Cut the T66 to desired length and install directly over the entire floor pulled 30mm up the walls with crown of the rolled materials up (Acousticork label side down), removing all trapped air. After completion, the T66 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 Acousticork: Water-Based Emulsion/ Polyurethane Glue;

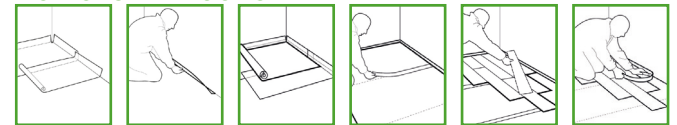
Vinyl and linoleum to Acousticork: Water-Based Emulsion/ Synthetic Resin Glue;

Ceramic to Acousticork: Flexible Cement Glue;

Acousticork to slab/screed: Water-Based Emulsion/ Acrylic Adhesives;

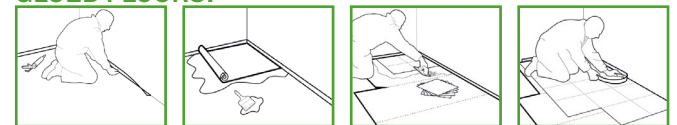
Application Process

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:



1. Perimeter barrier application; 2. Underlay application (glued); 3. Final floor application (glued); 4. Perimeter insulation barrier cut.

Important Notes

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

For detailed installation instructions, please contact us.