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ACOUSTICORK
T66

MATERIAL DATASHEET

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Material Data Sheet

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NON GLUED LAMINATE FLOORS		ΔL_w = 19dB
GLUED DOWN WOOD FLOORS		ΔL_w = 16dB
CERAMIC OR NATURAL STONE FLOORS		ΔL_w = 18dB
LVT		ΔL_w = 19dB

- Produced from Recycled and Natural Materials
- Impact Noise Reduction and Thermal Insulation Properties
- High Durability and Long Term Resilience
- High Performance with Reduced Thickness

PRODUCT DESCRIPTION

Agglomerated cork and recycled rubber underlay for impact noise and thermal insulation.

THERMAL PROPERTIES (1)

Thermal Conductivity: 0,140 W/mK

(1) ISO 8301

PHYSICAL AND MECHANICAL PROPERTIES

Specific Weight (1)	Tensile Strength (2)	Compressibility at 0,7MPa (3)	Recovery after 0,7MPa (3)
230 - 300Kg/m ^{3}	27 MN/m ^{3}	>100 KPa	>70%

(1)ASTM F1315 •(2)ASTM F152 •(3)ASTM F36

ACOUSTICAL RESULTS

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

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

STANDARD DIMENSIONS

Thickness (mm)	4	4/2	6	6/3	8/4	10/5
Width x Length (M)	1 x 15	1 x 30	1 x 10	1 x 20	1 x 15	1 x 10

Others sizes available upon request

CASTOR CHAIR RESISTANCE

Pass (1)

(1)EN425-2002

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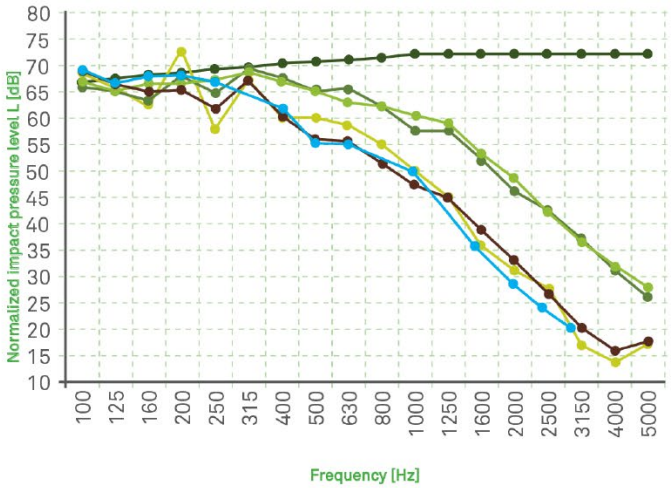
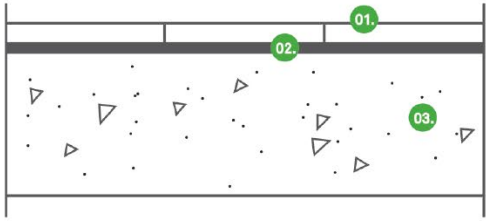
ACOUSTICAL RESULTS
Test procedure according to ISO 10140-1:2010; ISO 10140-3:2010; ISO 10140-4:2010 and ISO 717-2:2013 standards.



$L_{n,r}$ - 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	$L_{n,r,w}$ ($C_{I,r}$)	ΔL_w ($C_{I,\Delta}$)
ACL337/11	3 mm	Non Glued Laminate	59 (2) dB	19(-13) dB
ACL127/15	3 mm	Glued Down Wood	62 (0) dB	16(-11) dB
ACL203/14	3 mm	Ceramic (or Natural Stone)	62 (-1) dB	16(-10) dB
ACL063/17	4,5 mm		60 (-1) dB	18(-10) dB
ACL199/14	3 mm	LVT	59 (0) dB	19(-11) dB

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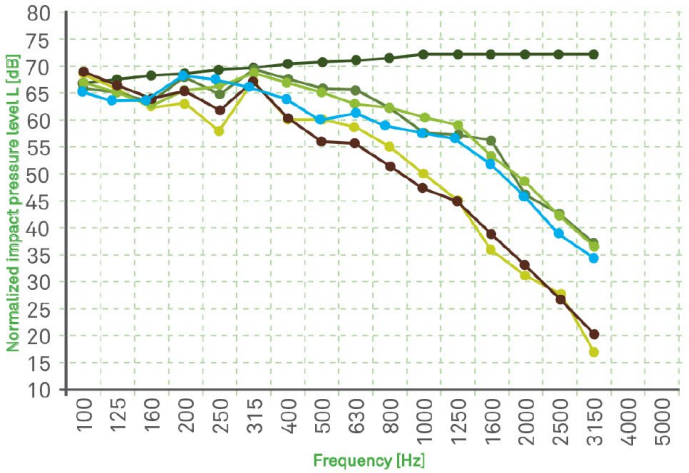
ACOUSTICAL RESULTS

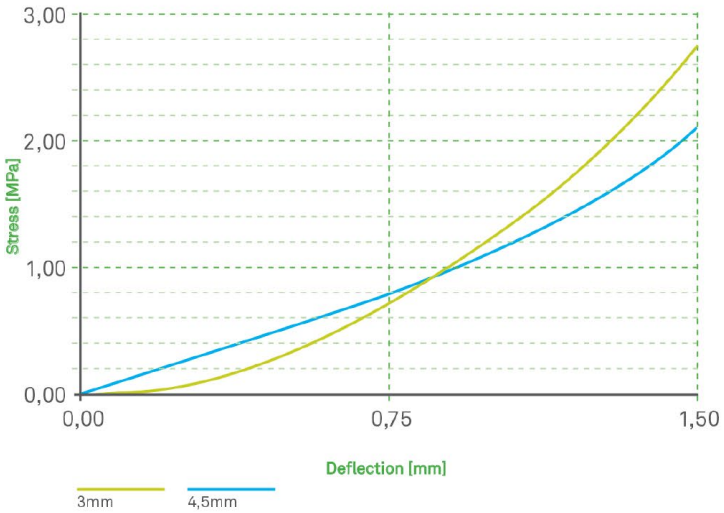
Test procedure according to ISO 10140-1:2010; ISO 1040-3;2010 and ISO 10140-4:2010 standards. Normalized impact sound pressure level and IIC rating determined according ASTM E492-09 and ASTM E989-06 standards.



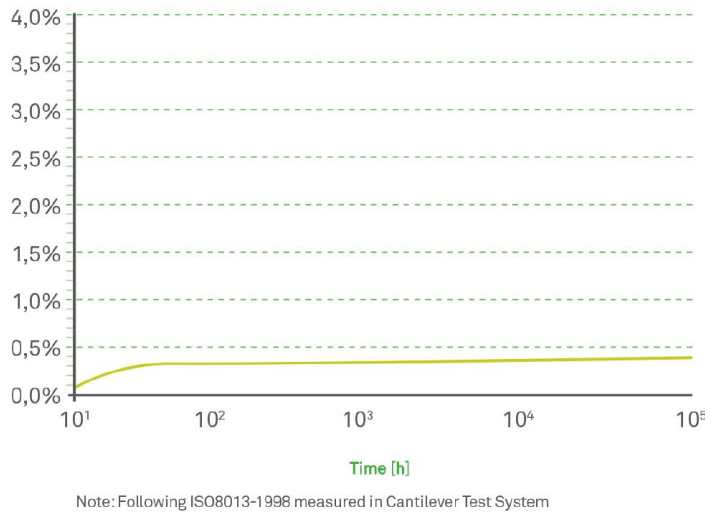
L_{ref} - Normalized impact sound pressure level of the reference floor with the floor covering under test;
$L_{ref,c}$ - Normalized impact sound pressure level of the Lab reference floor;

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
4,5 mm		52 dB
3 mm	LVT	51 dB

LOAD DEFLECTION



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



Note: Following ISO8013-1998 measured in Cantilever Test System

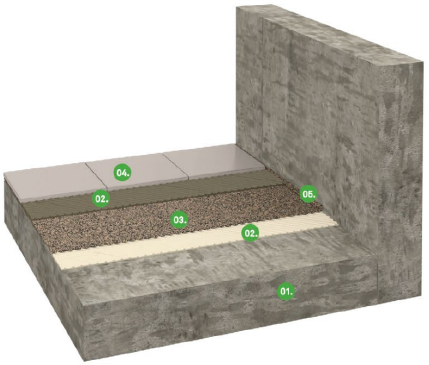
DYNAMIC STIFFNESS

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

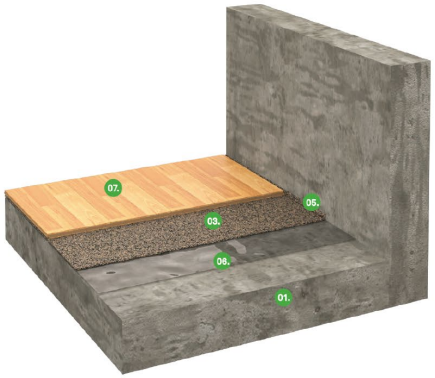
Thickness (mm)	Dynamic Stiffness (MN/m3)
3	98
4,5	152

INSTALLATION

GLUED FLOORS



NON GLUED FLOORS



1. Reinforced concrete slab
2. Adhesive
3. Agglomerated cork and recycled rubber resilient layer – T66
4. Floor covering composed by glued down Wood, Ceramic or nature stone
5. Perimeter insulation barrier
6. Vapor barrier
7. Floor covering composed by non glued laminate floor

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GENERAL INSTALLATION INSTRUCTION

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 manufactures.

Rooms 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.

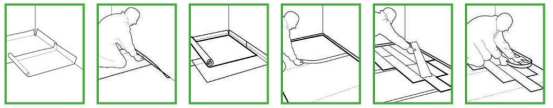
Vapor Insulation Barrier (only for Non Glued Floor)
PE (Polyethylene) vapor insulation barrier covering the entire flooring area, minimum 50 mm wide vertically around the perimeter of the entire floor MUST be installed prior to the Acousticork T66. Install by overlapping (minimum 100 mm) the PE foil, 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 Amorim T66 to desired length and install directly over the entire floor pulled 30 mm 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.

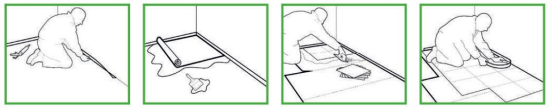
Recommended Adhesives:
Wood floor to Acousticork: Water-Based Emulsion/Polyurethane Glue
Vinyl and linoleum to Acousticork: Water-Based Emulsion/Synthetic Resin Glue;
Ceramic to Acousticork: Flexible Cement Glue;
Acousticork to slab/screed: Water-Based Emulsion/Acrylic Adhesives;

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 severaly diminish its acoustical value.

For detailed installation instructions, please contact us.

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IAC Acoustics Thailand Co., Ltd.
6/54-56, Thanon Poemsin Soi 42,
Ongern - Sai Mai Bangkok 10220 Thailand
Ph: (+66) 02-1012827 | Email: info@iac-acoustics-thailand.com

iac-acoustics-thailand.com

IAC has worldwide offices and manufacturing plants in the UK, Australia, Canada, China, Malaysia, Indonesia, Thailand, Philippines Denmark, France, Germany, Italy, Spain, UAE - Dubai, USA Houston, USA Lincoln, USA - New York.