ACOUSTICORK

AMORIM
CORK COMPOSITES

T22

Material Data Sheet

GLUED DOWN WOOD FLOORS

ΔL_w = 20dB

100% Recycled Material
Impact Noise Reduction and Thermal Insulation Properties
High Durability and Long Term Resilience
High Performance with Reduced Thickness

PRODUCT DESCRIPTION

Agglomerated recycled rubber underlay for impact noise and thermal insulation.

THERMAL PROPERTIES

Thermal Conductivity: 0,140 W/mK(1)

(1) ISO 8301

PHYSICAL AND MECHANICAL PROPERTIES

Specific Weight (1)	Tensile Strength (2)	Compressibility at 0,7MPa (3)	Recovery after 0,7MPa (3)
650 - 750 Kg/m³	> 350 KPa	20%	> 80%

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

ACOUSTICAL RESULTS

Flooring	Thickness (mm)	ΔL_w (dB) (1)	IIC (dB) (2)
Glued Down Wood	4	20	49

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

STANDARD DIMENSIONS

Thickness (mm)	4
Width (m) x Length (m)	1 x 10

Others sizes available upon request

FSC www.fsc.org FSC® C022338

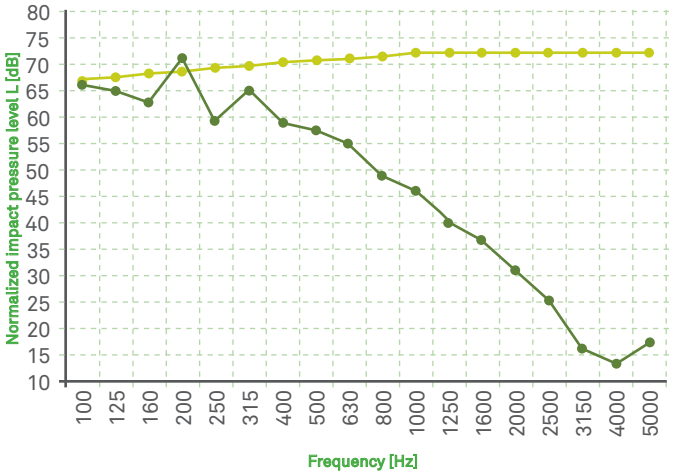
PEFC PEFC/13-32-014 Promoting Sustainable Forest Management www.pefc.org

CERTIFICAÇÃO apcer ISO 9001 ISO 14001 OHSAS 18001

CERTIFIED IQNet MANAGEMENT SYSTEM

ACOUSTICAL RESULTS

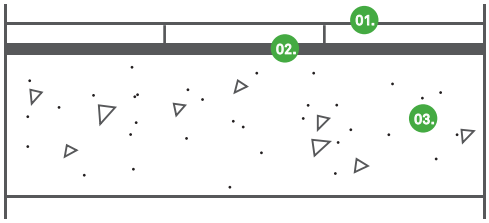
Test procedure according to ISO 10140-1:2010; ISO 10140-3:2010; ISO 10140-4:2010 and ISO 717-2:2013 standards.



$L_{n,r0}$ (dB)

$L_{n,r}$ (dB) - 4mm

TEST APPARATUS (ΔL_W & IIC)



01. Floor covering composed by glued down wood

02. Agglomerated recycled rubber resilient layer - T22

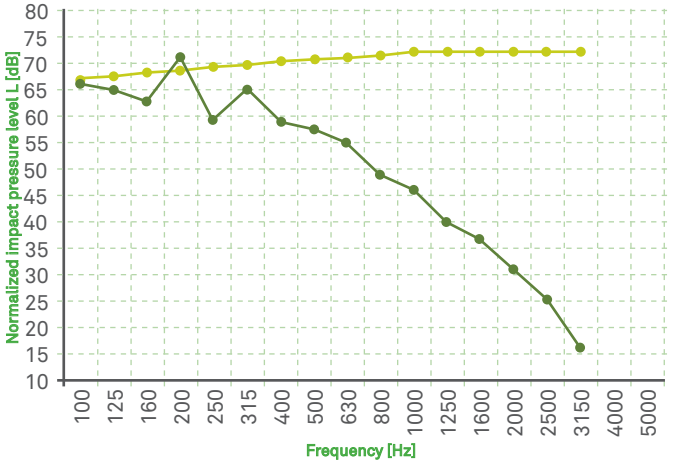
03. Reinforced concrete slab of thickness 140mm

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

Ref. Test Report	Thickness	Flooring	$L_{n,r,w}$ ($C_{I,r}$)	ΔL_w ($C_{I,\Delta}$)
ACU 128/10	4 mm	Glued Down Wood	58 (1) dB	20 (-12) 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} (dB)

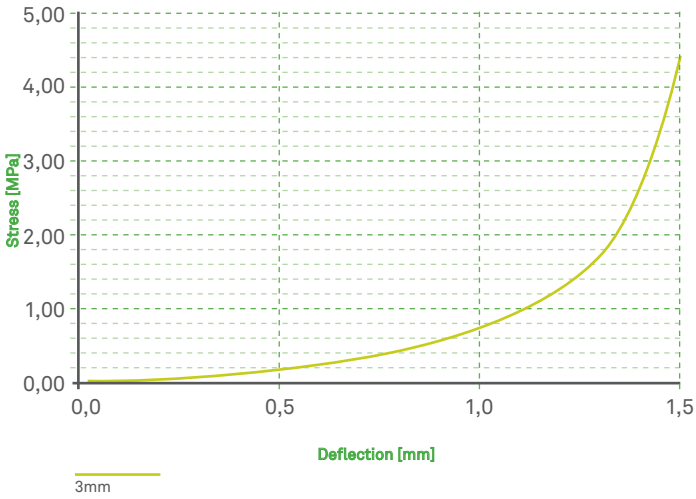
$L_{ref.c}$ (dB) - 4mm

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;

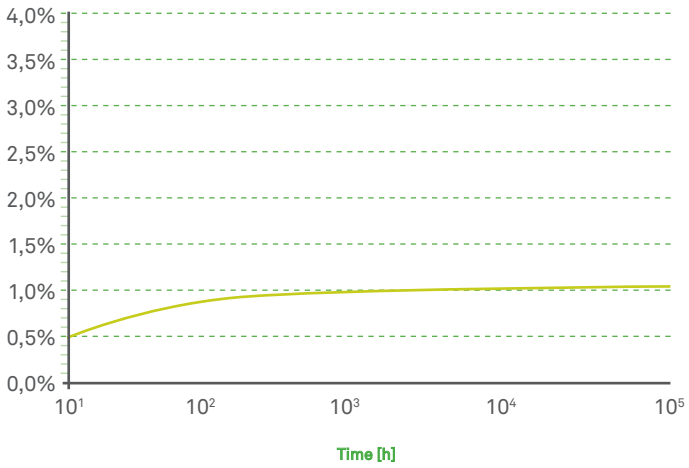
Thickness	Flooring	IIC_c
4mm	Glued Down Wood	49dB

PHYSICAL AND MECHANICAL PROPERTIES

LOAD DEFLECTION



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



Note: Following ISO8013-1998 measured in Cantilever Test System

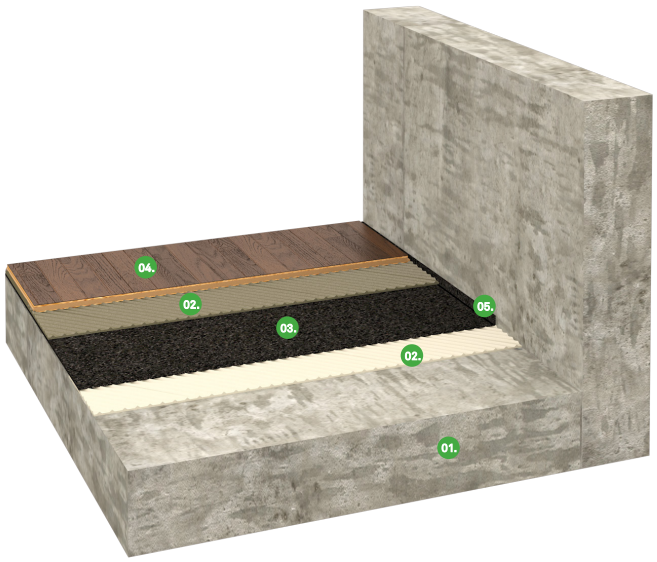
DYNAMIC STIFFNESS

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

Thickness (mm)	Dynamic Stiffness (MN/m³)
4	54

INSTALLATION

GLUED FLOORS



01. Reinforced concrete slab

02. Adhesive

03. Agglomerated recycled rubber resilient layer - T22

04. Floor covering composed by glued down wood

05. Perimeter insulation barrier

GLUED DOWN WOOD FLOORS  ΔL_w = 20dB

T22
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 > 10ºC / Room moisture content < 75%.

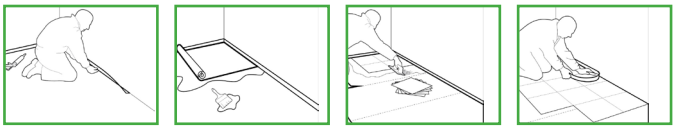
Subfloor
All subfloor work should be structurally sound, clear and level. The moisture content of the subfloor should not be more than 2.5% (CM) by weight measured on concrete subfloors.

Installation Instruction for Acousticork T22
Unpack the Acousticork T22 at least 24h before the installation and store it in the room where the installation will take place. Cut the T22 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 traped air. After completion, the T22 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
Acousticork to slab/screed: Water-Based Emulsion/ Acrylic Adhesives.

Application Process
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 T22 to the flooring floor as this will severaly diminish its acoustical value.

For detailed installation instructions, please contact us.

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www.amorimcorkcomposites.com