



# ACOUSTICORK T22

MATERIAL DATASHEET

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## GLUED DOWN WOODFLOORS



$\Delta L_w = 20 \text{ dB}$

- 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 <sup>(1)</sup>

Thermal Conductivity: 0,140 W/mK

<sup>(1)</sup> 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/m <sup>3</sup>	> 350 KPa	20%	> 80%

<sup>(1)</sup> ASTM F1315 • <sup>(2)</sup> ASTM F152 • <sup>(3)</sup> ASTM F36

### ACOUSTICAL RESULTS

Flooring	Thickness (mm)	$\Delta L_w$ (dB) <sup>(1)</sup>	IIC (dB) <sup>(2)</sup>
Glued Down Wood	4	20	49

<sup>(1)</sup> ISO 10140-3 and ISO 717-2 •

<sup>(2)</sup> ASTM E492-09 & ASTM E989-06

### STANDARD DIMENSIONS

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

Others sizes available upon request



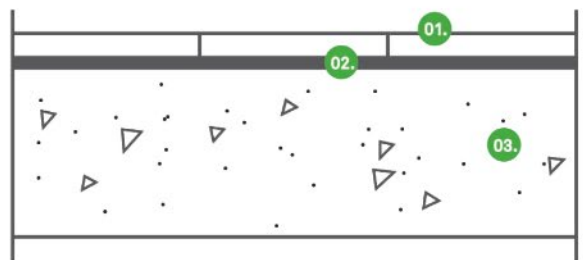
## ACOUSTICAL RESULT

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;  
 $\Delta L_w$  - Impact sound pressure level reduction index of the covering under test, on a normalized floor;

## TEST APPARATUS ( $\Delta L_w$ & IIC)



01.

Floor covering  
composed by glued  
down wood

02.

Agglomerated  
recycled rubber  
resilient layer - T22

03.

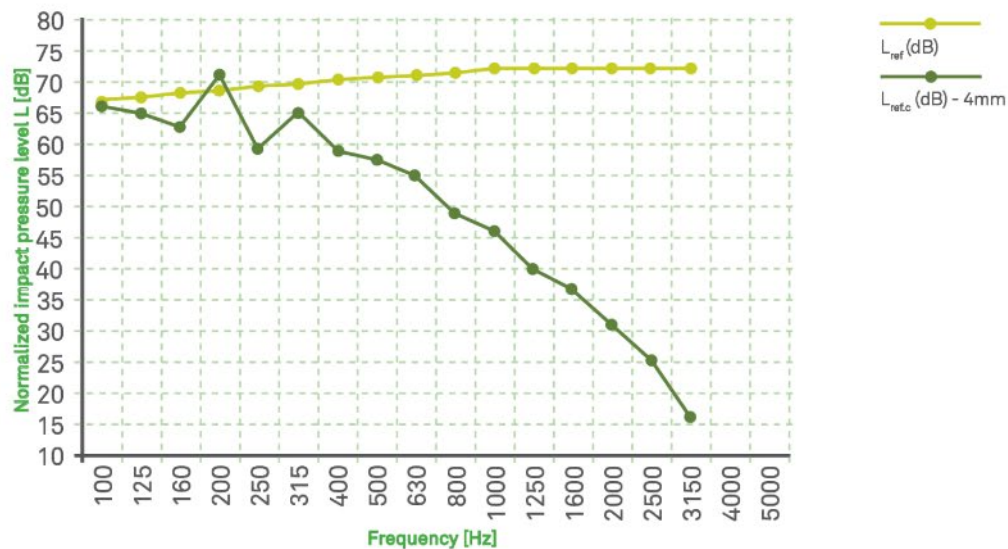
Reinforced concrete  
slab of thickness  
140mm

Ref. Test Report	Thickness	Flooring	$L_{n,r,w}(C_{l,r})$	$\Delta L_w(C_{l,\Delta})$
ACU 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.



$L_{ref}$  - 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

4mm

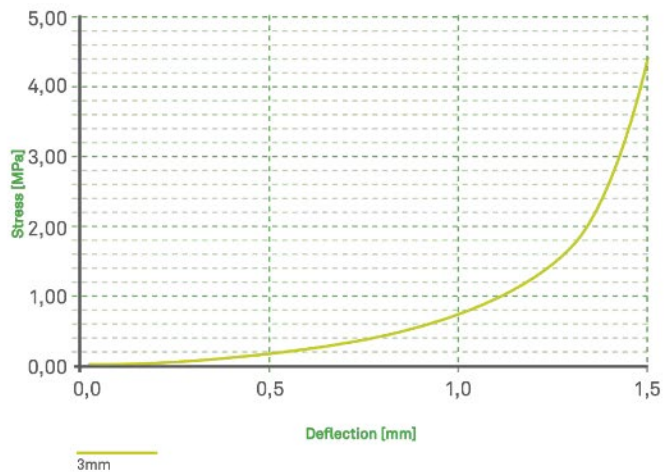
Flooring

Glued Down Wood

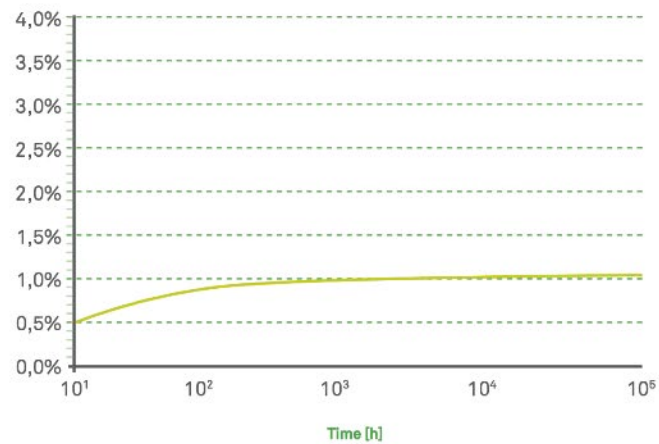
IIC<sub>c</sub>

49dB

## LOAD DEFLECTION



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



Note: Following ISO8013-1998 measured in Cantilever Test System

## DYNAMIC STIFFNESS

Thickness (mm)

4

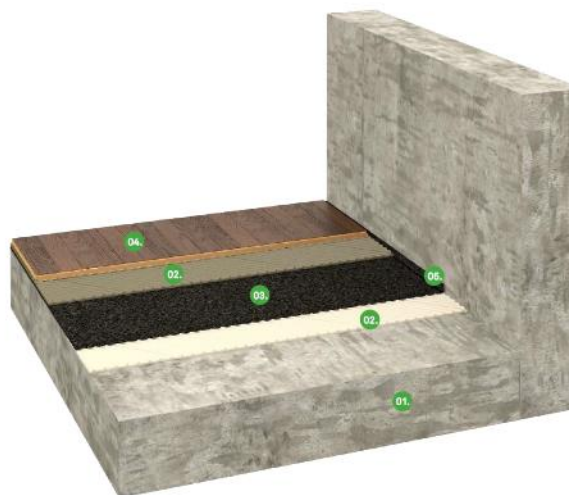
Dynamic Stiffness (MN/m3)

54



## INSTALLATION

## GLUED FLOORS



1

Reinforced  
concrete slab

2

Adhesive

3

Agglomerated recycled  
rubber resilient layer -  
T22

4

Floor covering  
composed by glued  
down wood

5

Perimeter  
insulation barrier

Note: Following ISO8013-1998 measured in Cantilever Test System



## 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.

## Installation instruction for Amorim PRO 80

Unpack the Acousticork T22 at least 24h before the installation and store it in the room where the installation will take place. Cut the Amorim T22 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 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.

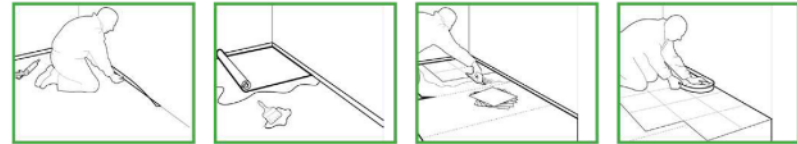
## Recommended Adhesives:

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 severely diminish its acoustical value.

For detailed installation instructions, please contact us.



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