



MATERIAL DESCRIPTION & PROPERTIES

$\Delta L_w = 20dB$

Wooden Flooring

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⁾	Compression at 0,7MPa ⁽³⁾	Recovery after 0,7MPa ⁽³⁾
650-750Kg/m ³	>350KPa	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 & ISO 717-2 • ⁽²⁾ASTM E492-09 & ASTM E989-06

Standard Dimensions

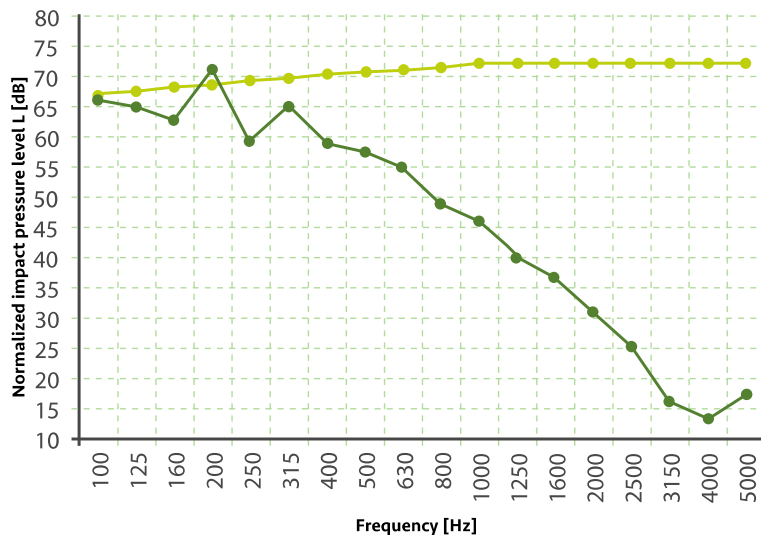
Thickness (mm)	Width (m) x Length (m)
4	1 x 15

Others sizes available upon request



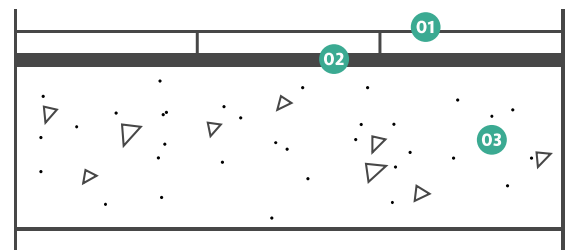
Acoustical Results

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)

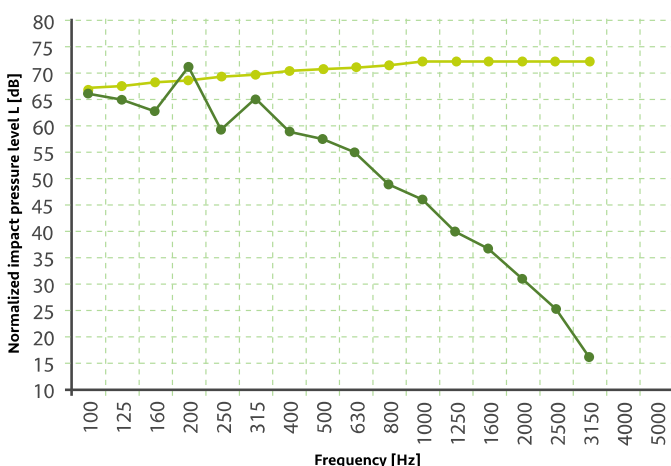


- 01** Floor covering composed by glued down wood
- 02** Agglomerated recycled rubber resilient layer - T22
- 03** Reinforced concrete slab of thickness 140mm

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

Acoustical Results



$L_{n,r0}$ (dB)
 $L_{n,refc}$ (dB) - 4mm

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.

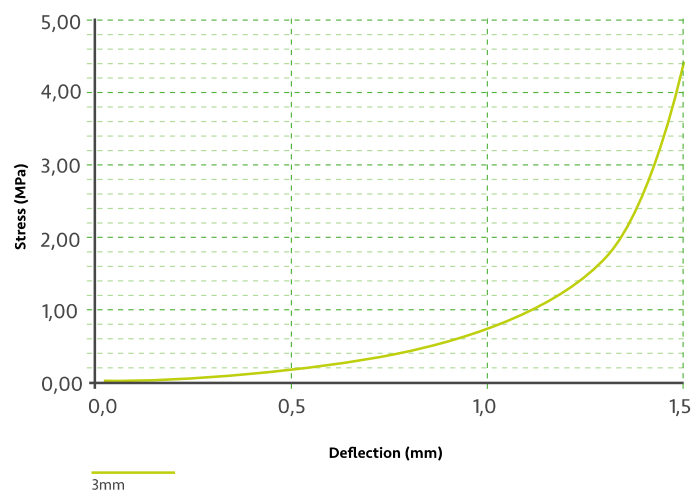
Thickness (mm)	Flooring	IIC _c
4	Glued Down Wood	49 dB

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

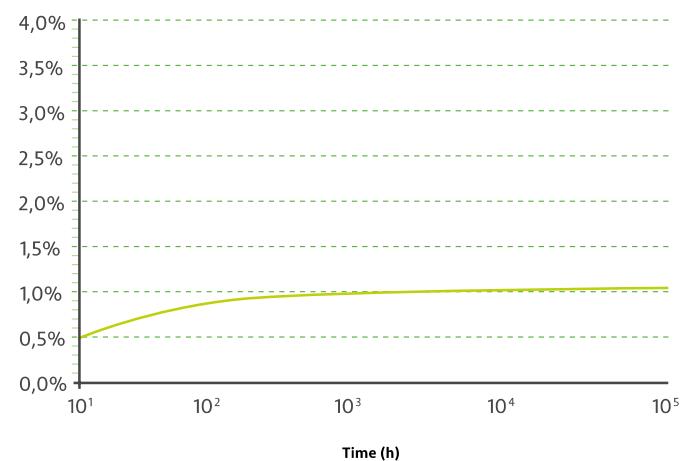


Physical and Mechanical Properties

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/m ³)
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



General Installation Instructions

The following installation instructions are recommended by Total Vibration 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 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.

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 trapped air. After completion, the T22 should cover the entire flooring area without gaps and with joints butted tight and preferably taped.

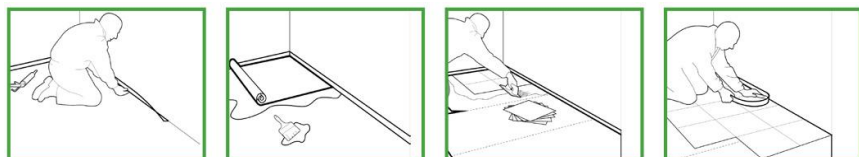
Final Flooring

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.

ACOUSTICORK T22

Product Data Sheet PDS 1.1 ACOUSTICORK T22

Revision: 1.3

Issued: 24/01/2018

The data provided in this Material 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 Total Vibration Solutions regarding specific application recommendations. Total Vibration Solutions expressly disclaims all warranties, including any implied warranties or merchantability or of fitness for a particular purpose. Total Vibration Solutions is not liable for any indirect special, incidental, consequential, or punitive damages as a result of using the information listed in this MDS. Any of its material specification sheets, its products or any future use or re-use of them by any person or entity.