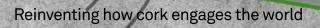


REINVENTING SUSTAINABLE GREEN AND ACOUSTIC INSULATION

m

A VILLAND





NEW

CORK AN EXCEPTIONAL RAW MATERIAL

Cork is commonly described as being the bark of the cork oak (Quercus Suber L.), which means that it is 100% natural plant tissue that covers its trunk and branches.

It consists of a honeycomb-like structure of microscopic cells filled with an air-like gas and coated mainly with suberin and lignin. One cubic centimetre of cork contains about 40 million cells.

Cork is also known as the "nature's foam" due to its alveolar structure. It has a closed cell structure making it lightweight, airtight and watertight, resistant to acids, fuels and oils, and impervious to rotting.

It is sustainably harvested by specialized professionals without damaging the trunk, meaning that the tree itself lives to grow another bark layer that, in time, will be harvested once again. Over the course of its lifetime, which on average lasts 200 years, it may be stripped around 17 times meaning that cork is not only a natural material, but also a renewable and recyclable one.



Excellent Acoustic Insulation



Excellent Thermal Insulation



Good resilience, excellent compressibility and recovery



Extremely light and buoyant



100% natural, reusable and recyclable

ACOUSTI**CORK** REINVENTING SUSTAINABLE, GREEN AND ACOUSTIC INSULATION

ACOUSTICORK natural base materials for demanding applications

Amorim Cork Composites specific compound formulations for acoustic insulation and vibration control allow for the possibility to create highly isolative or dampening materials able to comply with a wide range of environmental conditions and chemical resistances.

The combination of cork granules with diverse polymers brings added characteristics to different compounds for use as acoustic or vibration control materials.

ACOUSTICORK maximises energy efficiency

Cork absorbs energy due to its unique compressibility and recovery characteristics yielding higher loss factors that are essential for the dampening function, while its extremely low poison ratio improves the behaviour of such materials in dynamic loading applications.

EFFICIENCY, RESILIENCE AND DURABILITY





ITECONS ATTESTS ACOUSTICORK'S PERFORMANCE

RESEARCH

ITeCons - Institute for Research and Technological Development for Construction, Energy, Environment and Sustainability is a non-profit organization dedicated to providing a dynamic knowledge interface between the scientific community and industry. It has over 50 associate members, including businesses, municipalities and other research institutions.

TECHNICAL ASSESSMENT BODY

ITeCons has been accredited by the Portuguese Accreditation Institute to perform over 220 different tests. It operates a certified quality management system, and is a notified body - Testing Laboratory - to perform CE marking. As a Technical Assessment Body, ITeCons is also able to support industry by issuing European Technical Assessments to allow CE marking.

TECHNICAL EXPERTISE

ITeCons supports companies in their development of new materials and construction systems by helping in the conception, design, characterization and testing stages.

Expert consulting activities in construction sciences also includes the detection of construction pathologies in buildings, civil engineering structures and roads.

Another service provided by the institute is structural safety assessment and monitoring, looking to identify weaknesses and propose corrective measures to improve structural behaviour.

By establishing multiple partnerships with industry and academia, ITeCons has contributed crucially to meeting Europe's societal challenges in the fields of construction, energy, environment and sustainability.

ACOUSTICORK solutions are tested at ITECONS subjected to a highly qualified environment



ACOUSTI**CORK**

REINVENTING SUSTAINABLE GREEN AND ACOUSTIC INSULATION



UNDERLAY



ACOUSTICORK has solutions for different types of final flooring.

Underlay							
Flooring		T22	Тб	1	T66	T	35
	Thickness	-	2m	m	3mm	2n	nm
Non Glued Laminate	ΔLW	-	200	зв	19dB	19	dB
	IIC	-	540	IB	47dB	49	dB
	Thickness	3mm	3mm	3mm perforated	3mm	2m	nm
Glued Down Wood	ΔLW	20dB	26dB	18dB	16dB	14	dB
	IIC	49dB	59dB	51dB	50dB	49	dB
	Thickness	-	5mm	•	3mm	2m	nm
Ceramic (Or Natural Stone)	ΔLW	-	16dB		16dB	12	dB
	IIC	-	50dB		51dB	46	dB
	Thickness	-	-		3mm	1,6mm	2mm
LVT	ΔLW	-	-		19dB	17dB	-
	IIC	-	-		51dB	52dB	54dB

ACOUSTI**CORK**

T22 MATERIAL DATA SHEET

MATERIAL DESCRIPTION & PROPERTIES

GLUED DOWN WOOD FLOORS



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⁾



PHYSICAL AND MECHANICAL PROPERTIES

Specific Weight ⁽¹⁾	Tensile Strength ⁽²⁾	Compressibility at 0,7MPa ⁽³⁾	Recovery ⁽³⁾
650 - 750 Kg/m ³	> 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	3	20	49

⁽¹⁾ISO 10140-1, ISO 10140-3 & ISO 10140-4 • ⁽²⁾ASTM E492-09 & ASTM E989-06



STANDARD DIMENSIONS

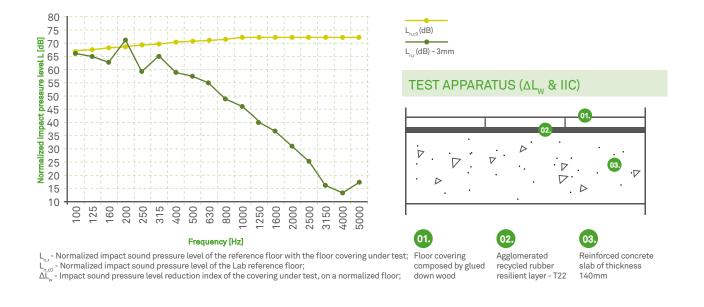
Thickness (mm)	3			
Width (m) x Length (m)	1 x 10			

Others sizes available upon request





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

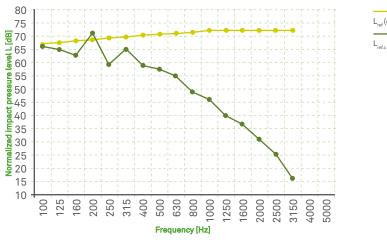


Ref. Test Report	Thickness	Flooring	L _{n.r.w} (C _L)	$\Delta L_{w}(C_{L\Delta})$
ACU 128/10	3 mm	Glued Down Wood	58 (1) dB	20 (-12) dB



ACOUSTICAL RESULTS

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



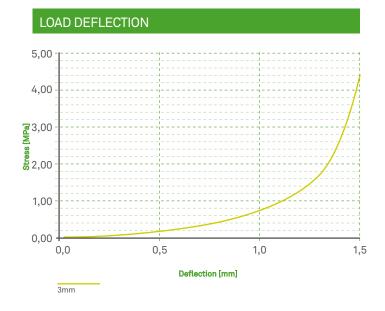
L_{ref} (dB) L_{ref.c} (dB) - 3mm

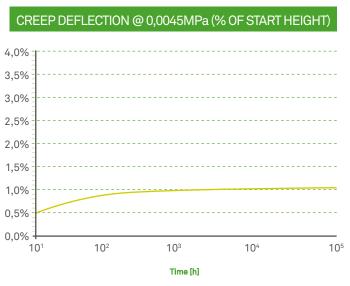
 $\rm L_{ref}$ - Normalized impact sound pressure level of the reference floor with the floor covering under test; $\rm L_{refc}$ - Normalized impact sound pressure level of the Lab reference floor;

Thickness	Flooring	IIC _c
3 mm	Glued Down Wood	49dB



PHYSICAL AND MECHANICAL PROPERTIES





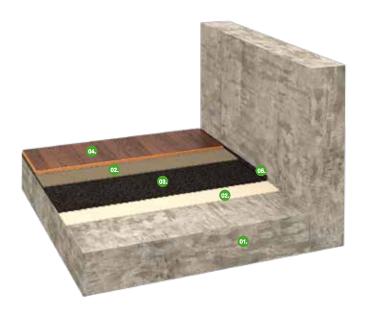
DYNAMIC STIFFNESS

Test procedure according to standards ISO 9052-1, ISO 7626-5

3 54	Thickness (mm)	Dynamic Stiffness (MN/m ³)	
	3	54	



GLUED FLOORS





04.

Floor covering composed

by glued down wood



05.



UNDERLAY

Perimeter insulation barrier

GLUED DOWN WOOD FLOORS





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.

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.

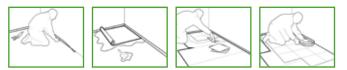
Final Flooring

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.



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 Amorim Cork Composites regarding specific application recommendations. Amorim Cork Composites scapes y disclaims all warranties, including any implied warranties or merchantability or of fitness for a particular purpose. Amorim Cork Composites 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.

ACOUSTI**CORK**

T61 MATERIAL DATA SHEET



NON GLUED LAMINATE FLOORS	
	100% Natural and Sustainable Product
GLUED DOWN WOOD FLOORS	Impact Noise Reduction and
	Thermal Insulation Properties
GLUED DOWN WOOD FLOORS PERFORATED	High Durability and Long Term Resilience
CERAMIC OR NATURAL STONE FLOORS $\Delta L_{w} = 16 dB$ CC	High Performance with Reduced Thickness



PRODUCT DESCRIPTION

Agglomerated cork underlay for impact noise and thermal insulation.



THERMAL PROPERTIES Thermal Conductivity: 0,04 W/mK ⁽¹⁾

Thermal Conductivity: 0,04 W/mK (1)



PHYSICAL AND MECHANICAL PROPERTIES

Specific Weight ⁽¹⁾	Tensile Strength (1)	Compression at 0,7MPa ⁽¹⁾	Recovery after 0,7MPa ⁽¹⁾
150 - 200 Kg/m ³	> 200 KPa	30%	>70%
	. 2001.0.0		,,,,,,,

⁽¹⁾ISO 7322



ACOUSTICAL RESULTS

Flooring	Flooring Thickness (mm)		IIC (dB) (2)
Non Glued Laminate	2	20	54
Clused Devue Mand	3	26	59
Glued Down Wood	3 perforated	18	51
Ceramic (or Natural Stone)	5 €	16	50



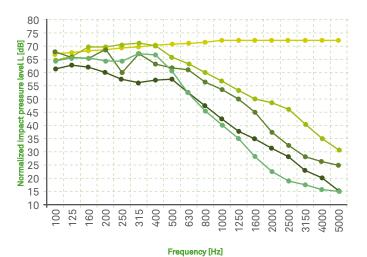
STANDARD DIMENSIONS

Thickness (mm)	2	3	3 perforated	5
Width (m) x Length (m)	1 x 10	1 x 10	0,5 x 10	1 x 10
Others sizes available upon request				





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



L_{n,r,0} (dB)

L_ (dB) - 3mm - GDW*

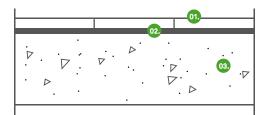
L_{nr}(dB) - 2mm - Laminate

L_{n,r}(dB) - 3mm perforated- GDW*

L_ (dB) - 5mm - Ceramic

*Glued Down Wood

TEST APPARATUS (AL, & IIC)



02.

 $r_{n,r}$ - Normalized impact sound pressure level of the reference floor with the floor covering under test; $r_{n,r,0}$ - Normalized impact sound pressure level of the Lab reference floor; 1

 $L_{n,0}^{-}$ - Normalized impact sound produce to the Lagrangian formulation index of the covering under test, on a normalized floor; ΔL_{w}^{-} - Impact sound pressure level reduction index of the covering under test, on a normalized floor;

01. Floor covering composed by Agglomerated cork Reinforced concrete glued down wood, non glued resilient layer - T61 slab of thickness laminate floor or ceramic or natural stone tiles

140mm

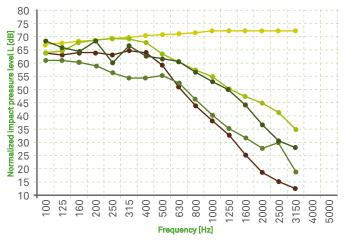
03

Ref. Test Report	Thickness	Flooring	L _{n,r,w} (C _{l,r})	$\Delta L_{w}(C_{L\Delta})$
SRLC/06/5L/3676/1a	2 mm	Non Glued Laminate	58 (0) dB	20 (-11) dB
SRL C/06/5L/3676/1a	3 mm	Glued Down Wood	52 (1) dB	26 (-12) dB
ACL034/16	3 mm perforated	Glued Down Wood	60 (0) dB	18 (-11) dB
SRL C/06/5L/3676/1a	5 mm	Ceramic (or Natural Stone)	62 (0) dB	16 (-11) dB



ACOUSTICAL RESULTS

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



L_{ref} (dB) L_{ref.c} (dB) - 2mm - Laminate (dB) - 3mm - GDW*

L_{ref.c} (dB) - 5mm - Ceramic

L_{ref.} (dB) - 3mm perforated - GDW*

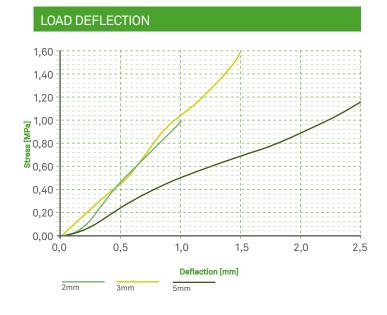
*Glued Down Wood

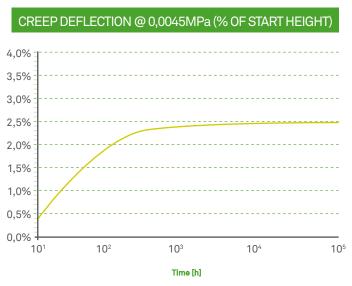
L_{ref} - Normalized impact sound pressure level of the reference floor with the floor covering under test; $L_{\rm refc}^{\rm eff}$ - Normalized impact sound pressure level of the Lab reference floor;

Thickness	Flooring	IIC _c
2 mm	Laminate	54 dB
3 mm	Glued Down Wood	59 dB
3 mm perforated	Glued Down Wood	51 dB
5 mm	Ceramic (or Natural Stone)	50 dB



PHYSICAL AND MECHANICAL PROPERTIES





DYNAMIC STIFFNESS

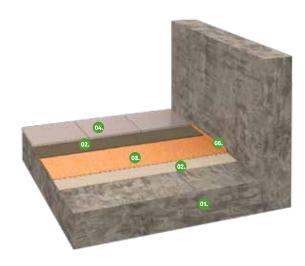
Test procedure according to standards ISO 9052-1, ISO 7626-5

Thickness (mm)	Dynamic Stiffness (MN/m³)
2	98
3	96
5	93



INSTALLATION

GLUED FLOORS





02.	
Adhesive	

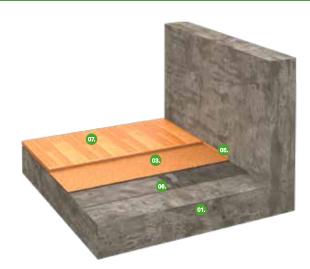


Agglomerated cork resilient layer - T61



Floor covering composed by glued down wood, ceramic or nature stone

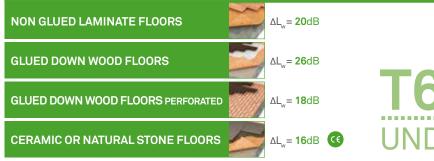
NON GLUED FLOORS



05. Perimeter insulation barrier



07. Floor covering composed by non glued laminate floor



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 T61.

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 T61

Unpack the Acousticork T61 at least 24h before the installation and store it in the room where the installation will take place. Cut the T61 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 T61 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;

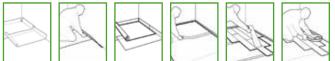
Vinyl and linoleum to Acousticork: Water-Based Emulsion/Synthetic Resin Glue;

Ceramic to Acousticork: Flexible Cement Glue;

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

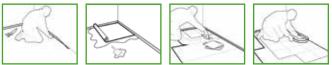
Application Process

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 T61 to the flooring floor as this will severaly diminish its acoustical value.

For detailed installation instructions, please contact us.



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 Amorim Cork Composites regarding specific application recommendations. Amorim Cork Composites expressly disclaims all warranties, including any implied warranties or merchantability or of fitness for a particular purpose. Amorim Cork Composites 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.

COUSTI**CORK**

T66 MATERIAL DATA SHEET

UNDERLAY

MATERIAL DESCRIPTION & PROPERTIES

NON GLUED LAMINATE FLOORS	ΔL _w = 19 dB	Produced f
GLUED DOWN WOOD FLOORS	ΔL _w = 16 dB	
CERAMIC OR NATURAL STONE FLOORS	ΔL _w = 16 dB	High
LVT	ΔL _w = 19 dB	High Pe

from Recycled and Natural Materials **Impact Noise Reduction and Thermal Insulation Properties Durability and Long Term Resilience** erformance with Reduced Thickness



PRODUCT DESCRIPTION

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



THERMAL PROPERTIES Thermal Conductivity: 0,08 W/mK ⁽¹⁾ (1) ISO 8301



PHYSICAL AND MECHANICAL PROPERTIES

Specific Weight ⁽¹⁾	Tensile Strength ⁽¹⁾	Compression ⁽¹⁾	Recovery ⁽¹⁾
600 - 700 Kg/m ³	> 800 KPa	15%	> 75%

(1) ISO 7322



ACOUSTICAL RESULTS

	Flooring	Thickness (mm)	ΔL _w (dB) ⁽¹⁾	IIC (dB) (2)
No	on Glued Laminate		19	47
G	lued Down Wood	3	16	50
Cerar	nic (or Natural Stone)		16	51
	LVT		19	51

(1)ISO 10140-1, ISO 10140-3 & ISO 10140-4 • (2)ASTM E492-09 & ASTM E989-06



STANDARD DIMENSIONS

Thickness (mm)	3
Width (m) x Length (m)	1 x 1 0

Others sizes available upon request



CASTOR CHAIR RESISTANCE Pass⁽¹⁾

⁽¹⁾EN425-2002





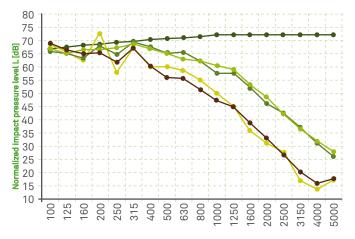
Test procedure according to standards ISO 10140-1:2010; ISO 10140-3:2010; ISO 10140-4:2010 and ISO 717-2:2013

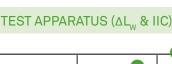
L___(dB)

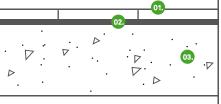
D

L_n (dB) - 3mm Laminate

*Glued Down Wood







02.

L_{ar} (dB) - 3mm GDW*

L_{n,r} (dB) - 3mm Ceramic

Frequency [Hz]

 $L_{_{\rm LV}}^{}$ - Normalized impact sound pressure level of the reference floor with the floor covering under test; $L_{_{\rm LVO}}^{}$ - Normalized impact sound pressure level of the Lab reference floor;

 $L_{n,0}^{-}$ - Normalized impact sound produce to the Lagrangian formulation index of the covering under test, on a normalized floor; ΔL_{w}^{-} - Impact sound pressure level reduction index of the covering under test, on a normalized floor;

01. Floor covering composed by Agglomerated cork glued down wood, non glued and recycled rubber laminate floor or ceramic or resilient layer - T66 natural stone tiles

Reinforced concrete slab of thickness 140mm

03.

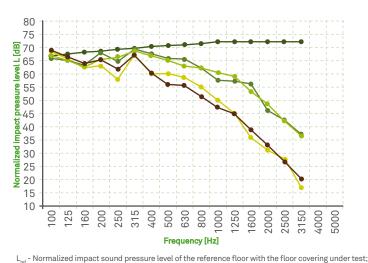
L ... (dB) - 3mm LVT

Ref. Test Report	Thickness	Flooring	L _{n,r,w} (C _{l,r})	$\Delta L_{w}(C_{LA})$
ACU 337/11		Non Glued Laminate	59 (2) dB	19 (-13) dB
ACL 127/15	2	Glued Down Wood	62 (0) dB	16 (-11) dB
ACL 203/14	3 mm	Ceramic (or Natural Stone)	62 (-1) dB	16 (-10) dB
ACL 199/14		LVT	59 (0) dB	19 (-11) dB



ACOUSTICAL RESULTS

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





L (dB) - 3mm GDW*

L_{n,r} (dB) - 3mm Ceramic

L_{nr} (dB) - 3mm LVT

*Glued Down Wood

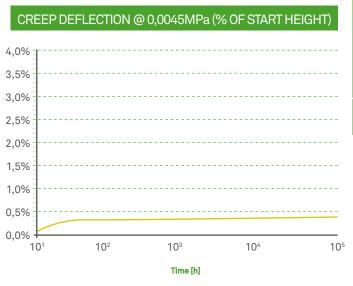
 $L_{\rm refc}^{\rm eff}$ - Normalized impact sound pressure level of the Lab reference floor;

Thickness	Flooring	liC _c
3 mm	Non Glued Laminate	47 dB
	Glued Down Wood	50 dB
	Ceramic (or Natural Stone)	51 dB
	LVT	51 dB



PHYSICAL AND MECHANICAL PROPERTIES





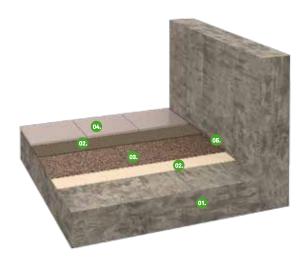
DYNAMIC STIFFNESS

Test procedure according to standards ISO 9052-1, ISO 7626-5

Thickness (mm)	Dynamic Stiffness (MN/m³)
3	98

INSTALLATION

GLUED FLOORS





02. Adhesive





04. Floor covering composed by glued down wood, ceramic or nature stone

05. Perimeter insulation barrier

07.



01.







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 traped 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;

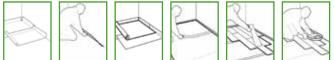
Vinyl and linoleum to Acousticork: Water-Based Emulsion/Synthetic Resin Glue;

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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ACOUSTI**CORK**

T85 MATERIAL DATA SHEET

MATERIAL DESCRIPTION & PROPERTIES

NON GLUED LAMINATE FLOORS	ΔL _w = 19 dB	Produced from Recycled and Natural Materials
GLUED DOWN WOOD FLOORS	ΔL _w = 14 dB	Impact Noise Reduction and
CERAMIC OR NATURAL STONE FLOORS	۵L _w = 12 dB	Thermal Insulation Properties High Durability and Long Term Resilience
LVT	ΔL _w = 17 dB	High Performance with Reduced Thickness



PRODUCT DESCRIPTION

Agglomerated cork with recycled polyurethane underlay for impact noise insulation.



THERMAL PROPERTIES

Thermal Conductivity: 0,055 W/mK ⁽¹⁾



PHYSICAL AND MECHANICAL PROPERTIES

230-300 kg/m ³ > 100 KPa 30% > 7	after 0,7MPa ⁽¹⁾
200 500 kg/m / 100 km a 50 / 0 / /	70%

(1) ISO 7322



ACOUSTICAL RESULTS

Flooring	Thickness (mm)	ΔL _w (dB) ⁽¹⁾	IIC (dB) ⁽²⁾
Non Glued Laminate		19	49
Glued Down Wood	2	14	49
Ceramic (or Natural Stone)		12	46
IJŒ	1,6	17	52
LVT —	2	-	54



STANDARD DIMENSIONS

Thickness (mm)	1,6	2
Width (m) x Length (m)	1 x 1 0	1 x 1 0

Others sizes available upon request



CASTOR CHAIR RESISTANCE

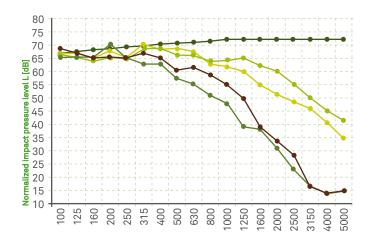
Pass (Ref. Test Report OMC 025/14) $^{\scriptscriptstyle (1)}$

⁽¹⁾EN425-2002





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



L_{nr0}(dB)

L_{nr} (dB) - 2mm GDW* L_{n,r} (dB) - 1,6mm LVT

L (dB) - 2mm Laminate L (dB) - 2mm Ceramic

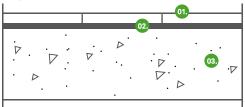
*Glued Down Wood

TEST APPARATUS (ΔL_w & IIC*)

*Except 2mm LVT

01.

tiles



Frequency [Hz]

- Normalized impact sound pressure level of the reference floor with the floor covering under test; 1 Normalized impact sound pressure level of the Lab reference floor; ΔL

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

02. Agglomerated cork and PU resilient Floor covering composed by glued down wood, non glued laminate floor or layer - T85 ceramic or natural stone

Reinforced concrete slab of thickness 140mm

03.

Ref. Test Report	Thickness	Flooring	L _{n,r,w} (C _{l,r})	$\Delta L_{w}(C_{LA})$
ACL035/16		Non Glued Laminate	59 (1) dB	19 (-12) dB
ACL 169/15	2 mm	Glued Down Wood	64 (-2) dB	14 (-9) dB
ACL 125/15		Ceramic (or Natural Stone)	66 (-4) dB	12 (-7) dB
ACL036/16	1,6 mm	LVT	61 (-1) dB	17 (-10) dB

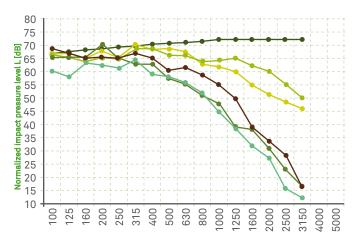


ACOUSTICAL RESULTS

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

L_{ref}(dB)

01.



Frequency [Hz]

L_{ref.c} (dB) - 2mm Laminate

L_{refc} (dB) - 2mm GDW*

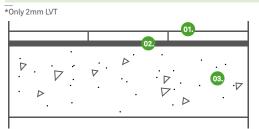
L_{ref c} (dB) - 1,6mm LVT**

L_{ref.c} (dB) - 2mm Ceramic

L_{ref.c}(dB) - 2mm LVT

*Glued Down Wood ** Test Procedure according to standards ASTM E2179-03

TEST APPARATUS (IIC*)



L_{ref} - Normalized impact sound pressure level of the reference floor with the floor covering under test; Floor covering composed by LVT $L_{_{\rm ref.c}}^{_{\rm det}}$ - Normalized impact sound pressure level of the Lab reference floor;

02. Agglomerated cork and PU resilient layer - T85

Reinforced concrete slab of thickness 203mm

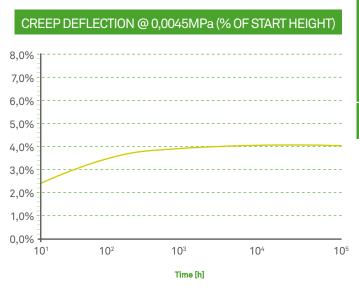
03

Thickness	Flooring	IIC _c
	Non Glued Laminate	49 dB
2 mm	Glued Down Wood	49 dB
	Ceramic (or Natural Stone)	46 dB
1,6 mm	LVT	52 dB
2 mm	LVT	54 dB



PHYSICAL AND MECHANICAL PROPERTIES





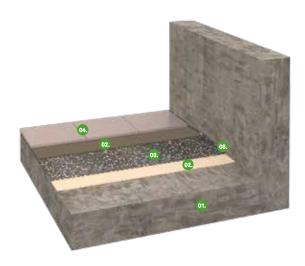
DYNAMIC STIFFNESS

Test procedure according to standards ISO 9052-1, ISO 7626-5

Thickness (mm)	Dynamic Stiffness (MN/m³)
1,6	114
2	105



GLUED FLOORS











Floor covering composed by glued down wood, ceramic or nature stone

NON GLUED FLOORS











T85 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 T85.

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 T85

Unpack the Acousticork T85 at least 24h before the installation and store it in the room where the installation will take place. Cut the T85 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 T85 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;

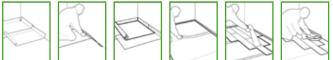
Vinyl and linoleum to Acousticork: Water-Based Emulsion/Synthetic Resin Glue;

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 T85 to the flooring floor as this will severaly diminish its acoustical value.

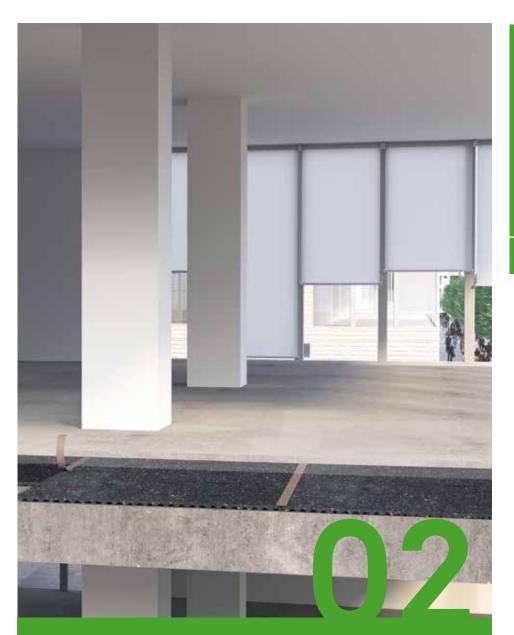
For detailed installation instructions, please contact us.



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ACOUSTI**CORK**

REINVENTING SUSTAINABLE GREEN AND ACOUSTIC INSULATION



UNDERSCREED



UNDERSCREED

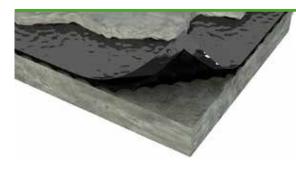
ACOUSTICORK ensures high impact sound insulation in flooring screed application.

Underscreed				
Thickness (mm)		U22	U32	U85
i i	ΔLW	22dB	19dB	19dB
4	IIC	50dB	47dB	51dB
(10	ΔLW	-	19dB	23dB
4/2	IIC	-	47dB	52dB
6	ΔLW	22dB	20dB	20dB
0	IIC	50dB	48dB	51dB
6/3	ΔLW	-	20dB	23dB
0/3	IIC		48dB	52dB
8	ΔLW	23dB	-	-
0	IIC	51dB		
8/4	ΔLW	23dB	21dB	-
0/4	IIC	51dB	42dB	_
10	ΔLW	23dB	20dB	-
10	IIC	51dB	50dB	_
10/5	ΔLW	-	22dB	-
10/3	IIC		47dB	

ACOUSTI**CORK**



MATERIAL DESCRIPTION & PROPERTIES



FLOATING SCREED

Impact Noise Reduction and Thermal Insulation Properties Very Easy to Handle and Long Term Resilience 100% Recycled Material Very Flexible



Agglomerated recycled rubber resilient layer impact noise insulation of floating screed.

PRODUCT DESCRIPTION

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



PHYSICAL AND MECHANICAL PROPERTIES

Specific Weight (1)	Dynamic Stiffness (2)	Tensile Strength (3)	Recovery ⁽⁴⁾		
650 - 750 Kg/m ³	20 MN/m ³	> 350 KPa	> 80%		

*⁽¹⁾ASTM F1315 •⁽²⁾ISO 9052-1 & ISO 7626-5 •⁽³⁾ASTM F152 •⁽⁴⁾ASTM F36



ACOUSTICAL RESULTS

Thickness (mm)	ΔL _w (dB) ⁽¹⁾	IIC (dB) ⁽²⁾
4	22	50
4/2	-	-
6	22	50
6/3	-	-
8	23	51
8/4	23	51
10	23	51
10/5	-	-

STANDARD DIMENSIONS

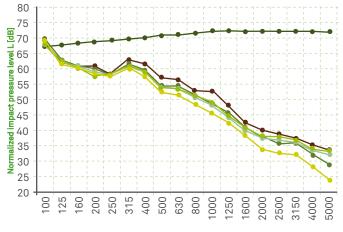
Thickness (mm)	4	4/2	6	6/3	8	8/4	10	10/5
Width (m) x Length (m)	1 x 15	1 x 30	1 x 10	1 x 20	1 x 10	1 x 15	1 x 10	1 x 10
Others sizes available upon request								





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

L



Frequency [Hz]

 $L_{\rm n,r}$ - Normalized impact sound pressure level of the reference floor with the floor covering under test; $\mathsf{L}_{n,r,0}$ - Normalized impact sound pressure level of the Lab reference floor;

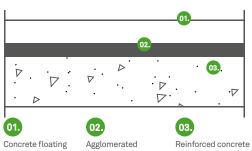
ΔL	- Impact sound	pressure level	reduction index	of the covering u	nder test. on	a normalized floor;

Ref. Test Report	Thickness	L _{n.r.w} (C _L)	$\Delta L_{w}(C_{L\Delta})$
ACL 102/15	4 mm	56 (2) dB	22 (-12) dB
ACL 101/15	6 mm	56 (1) dB	22 (-12) dB
ACL 100/15	8 mm	55 (1) dB	23 (-12) dB
ACL 168/15	8/4mm	55 (1) dB	23 (-12) dB
ACL 099/15	10 mm	55 (1) dB	23 (-12) dB



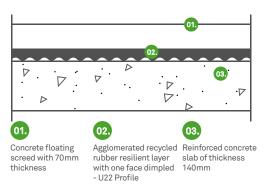
L_{nr} (dB) - 6mm L_{or} (dB) - 8/4mm L_{n.r} (dB) - 10mm L_{n,r}(dB) - 8mm

TEST APPARATUS (AL_w & IIC)



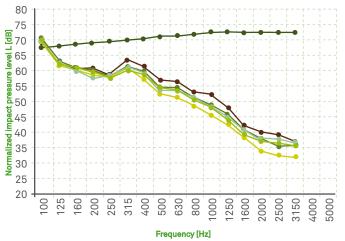


Reinforced concrete slab of thickness 140mm



ACOUSTICAL RESULTS

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



L_{ref}(dB) L_{ref}(dB) - 4mm

L_{ref} (dB) - 6mm L_{ref}(dB) - 8mm

L_{ref} (dB) - 8/4mm L_{ref} (dB) - 10mm

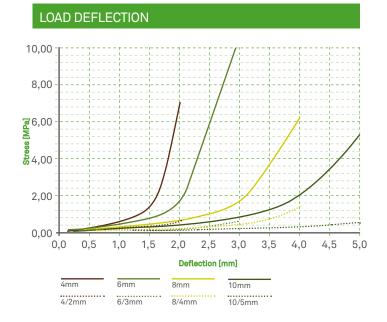
 L_{ref}^{-} - Normalized impact sound pressure level of the reference floor with the floor covering under test;

L_{ref} - Normalized impact sound pressure level of the Lab reference floor;

Thickness	IIC _c
4mm	50 dB
6mm	50 dB
8mm	51 dB
8/4mm	51 dB
10mm	51 dB



PHYSICAL AND MECHANICAL PROPERTIES





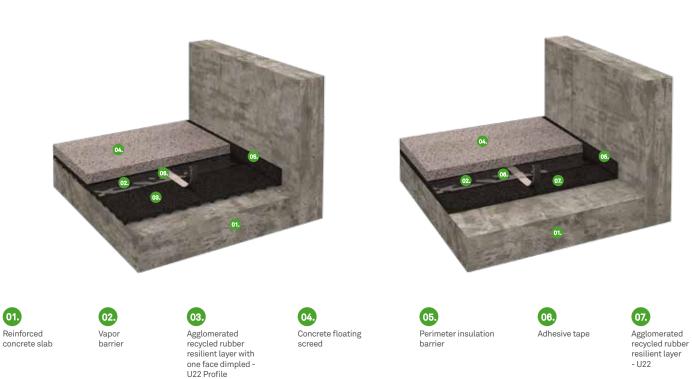
DYNAMIC STIFFNESS

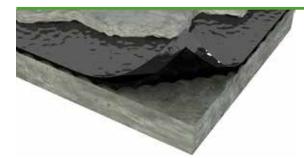
Test procedure according to standards ISO 9052-1, ISO 7626-5

Thickness	4mm	4/2mm	6mm	6/3mm	8mm	8/4mm	10mm	10/5mm
Dynamic Stiffness (MN/m ³)	52	32	44	25	38	23	37	20



INSTALLATION





FLOATING SCREED



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 and screed.

Room Conditions

Temperature > -5°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.

Perimeter Insulation Barrier

Install a perimeter insulation barrier vertically around the entire perimeter of the room with width equal to that of the floor build up. This is highly recommended in order to avoid lateral propagation of impact noise. The barrier must also be applied in the perimeter of pipes, ducts or any other component protruding from the floor. Spot adhere the strips to the wall using acrylic glue or a bead of silicone sealant.

Installation Instruction for Acousticork U22

Unpack the Acousticork U22 at least 24h before the installation and store it in the room where the installation will take place. Cut and trim the Acousticork U22 to the desined size to fit the installation. Apply directly over the subfloor. Always ensure that material is installed to fit the application avoiding the creation of waves in the material. In case of profile material, dimple side must face down. Place the Acousticork U22 directly against the insulation perimeter barrier already installed. Proceed to cover the entire floor making sure that the joints are butted tight and use an adequate tape to fix it. After completion, the Acousticork U22 should cover the entire flooring area without gaps and with joints securely taped. An waterproof membrane (ex. Polyethylene foil) minimum 0.2mm covering the entire flooring area MUST be installed prior to the screed. Install it, minimum 150mm wide vertically and overlapping it, minimum 100mm. After completion, the insulation vapour barrier should cover the entire Acousticork U22 area without gaps. Never mechanically fasten the Acousticork U22 and/or the PE foil barrier with screws, nails or staples as this will severely diminish the performance of the insulation barrier.

Screed and Final Flooring

Cast a suitable screed over the loose laid PE foil previously installed over the product.

Always follow manufacturers recommended installation instructions.

For detailed installation instructions, please contact us.

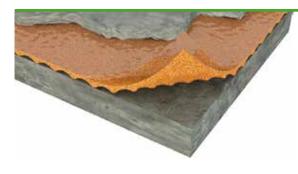


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COUSTI**CORK**



MATERIAL DESCRIPTION & PROPERTIES



FLOATING SCREED

Impact Noise Reduction and Thermal Insulation Properties Very Easy to Handle and Long Term Resilience 100% Natural and Sustainable Product **Very Flexible**



PRODUCT DESCRIPTION

Agglomerated cork resilient layer impact noise insulation of floating screed.



THERMAL PROPERTIES

Thermal Conductivity: 0,04 W/mK⁽¹⁾ (1) ISO 8301



PHYSICAL AND MECHANICAL PROPERTIES

Specific Weight (1)	Dynamic Stiffness (2)	Tensile Strength ⁽³⁾	Recovery ⁽⁴⁾
150 - 220 Kg/m ³	38 MN/m ³	> 200 KPa	> 70%

* (1) ASTM F1315 • (2) ISO 9052-1 & ISO 7626-5 • (3) ASTM F152 • (4) ASTM F36



ACOUSTICAL RESULTS

Thickness (mm)	ΔL _w (dB) ⁽¹⁾	IIC (dB) ⁽²⁾
4	19	47
4/2	19	47
6	20	48
6/3	20	48
8	*	*
8/4	21	42
10	20	50
10/5	22	47

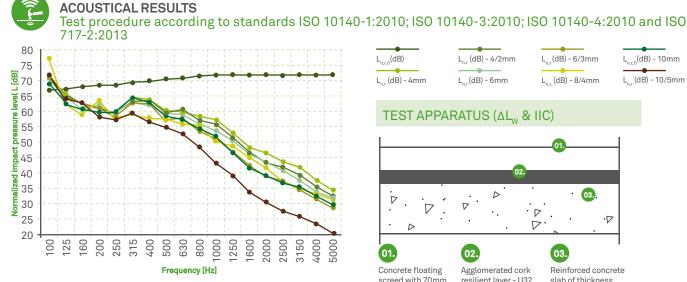
* Available tests soon (1)ISO 10140-1, ISO 10140-3 & ISO 10140-4 • (2)ASTM E492-09 & ASTM E989-06



STANDARD DIMENSIONS

Thickness (mm)	4	4/2	6	6/3	8/4	10	10/5
Width (m) x Length (m)	1 x 20	1 x 30	1 x 20	1 x 20	1 x 15	1 x 15	1 x 10
Others sizes available upon request							

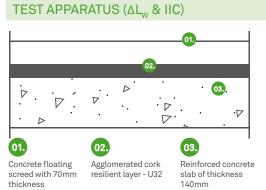




 L_{nr} - Normalized impact sound pressure level of the reference floor with the floor covering under test;

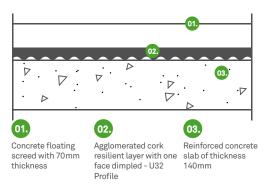
 $L_{r,c0}^{\nu}$ Normalized impact sound pressure level of the Lab reference floor; ΔL_{w}^{ν} - Impact sound pressure level reduction index of the covering under test, on a normalized floor;

Ref. Test Report	Thickness	L _{n,r,w} (C _{l,r})	$\Delta L_{W}(C_{L\Delta})$
ACL104/15	4 mm	59 (1) dB	19 (-12) dB
ACL041/14	4/2 mm	59 (1) dB	19 (-12) dB
ACL105/15	6 mm	58 (2) dB	20 (-13) dB
ACL042/14	6/3 mm	58 (1) dB	20 (-12) dB
ACU242/09	8/4 mm	57 (7) dB	21 (-18) dB
ACL106/15	10 mm	58 (0) dB	20 (-11) dB
ACL107/15	10/5 mm	56 (3) dB	22 (-14) dB



L_{n.r} (dB) - 4/2mm

L (dB) - 6mm

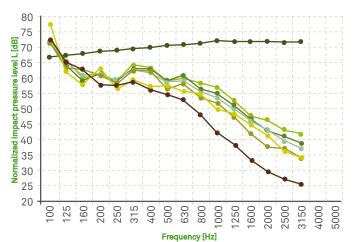


ACOUSTICAL RESULTS

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

L_{oro}(dB)

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



(dB)	L _{n,r} (d
dB) - 4mm	L (d

IB) - 4/2mm L_ (dB) - 6/3mm dB) - 6mm L_{nr} (dB) - 8/4mm L___(dB) - 10mm L_{n.r} (dB) - 10/5mm

L₀₁₀(dB) - 10mm

L_{ar} (dB) - 10/5mm

L_{or}(dB) - 6/3mm

L_{or} (dB) - 8/4mm

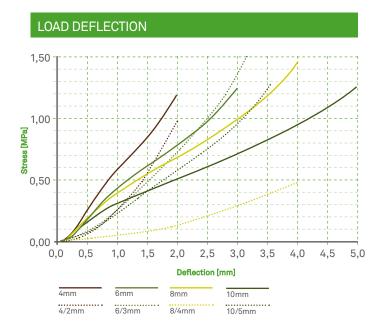
 $L_{\rm ref}$ - Normalized impact sound pressure level of the reference floor with the floor covering under test; $L_{\rm refc}$ - Normalized impact sound pressure level of the Lab reference floor;

Thickness	IIC _c
4 mm	47 dB
4/2 mm	47 dB
6 mm	48 dB
6/3 mm	48 dB
8/4 mm	42 dB
10 mm	50 dB
10/5 mm	47 dB

*Improvement in impact insulation class



PHYSICAL AND MECHANICAL PROPERTIES





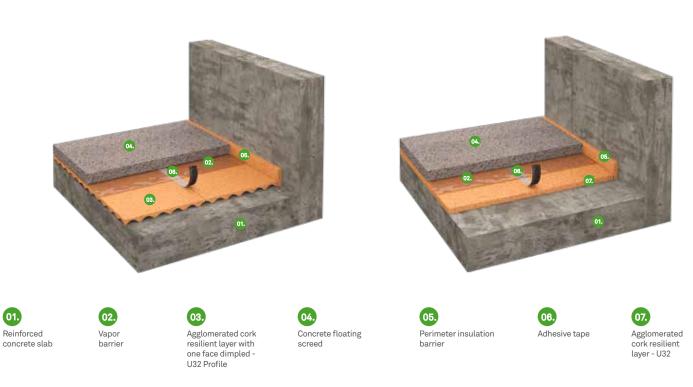
DYNAMIC STIFFNESS

Test procedure according to standards ISO 9052-1, ISO 7626-5

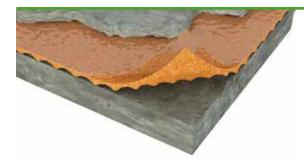
Thickness	4mm	4/2mm	6mm	6/3mm	8mm	8/4mm	10mm	10/5mm
Dynamic Stiffness (MN/m ³)	94	70	88	50	82	48	72	38



INSTALLATION



FLOATING SCREED





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 and screed.

Room Conditions

Temperature > -5°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.

Perimeter Insulation Barrier

Install a perimeter insulation barrier vertically around the entire perimeter of the room with width equal to that of the floor build up. This is highly recommended in order to avoid lateral propagation of impact noise. The barrier must also be applied in the perimeter of pipes, ducts or any other component protruding from the floor. Spot adhere the strips to the wall using acrylic glue or a bead of silicone sealant.

Installation Instruction for Acousticork U32

Unpack the Acousticork U32 at least 24h before the installation and store it in the room where the installation will take place. Cut and trim the Acousticork U32 to the desined size to fit the installation. Apply directly over the subfloor. Always ensure that material is installed to fit the application avoiding the creation of waves in the material. In case of profile material, dimple side must face down. Place the Acousticork U32 directly against the insulation perimeter barrier already installed. Proceed to cover the entire floor making sure that the joints are butted tight and use an adequate tape to fix it. After completion, the Acousticork U32 should cover the entire flooring area without gaps and with joints securely taped. An waterproof membrane (ex. Polyethylene foil) minimum 0.2mm covering the entire flooring area MUST be installed prior to the screed. Install it, minimum 150mm wide vertically and overlapping it, minimum 100mm. After completion, the insulation vapour barrier should cover the entire Acousticork U32 area without gaps. Never mechanically fasten the Acousticork U32 and/or the PE foil barrier with screws, nails or staples as this will severely diminish the performance of the insulation barrier.

Screed and Final Flooring

Cast a suitable screed over the loose laid PE foil previously installed over the product.

Always follow manufacturers recommended installation instructions.

For detailed installation instructions, please contact us.

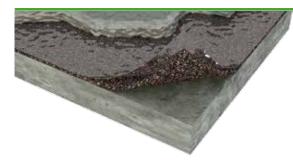


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ACOUSTI**CORK**



MATERIAL DESCRIPTION & PROPERTIES



FLOATING SCREED

Impact Noise Reduction and Thermal Insulation Properties Very Easy to Handle and Long Term Resilience Produced from Recycled and Natural Material Very Flexible



PRODUCT DESCRIPTION

Agglomerated cork with recycled polyurethane resilient layer impact noise insulation of floating screed.



THERMAL PROPERTIES

Thermal Conductivity: 0,055 W/mK ⁽¹⁾



PHYSICAL AND MECHANICAL PROPERTIES

Recovery ⁽⁴⁾	Tensile Strength ⁽³⁾	Dynamic Stiffness ⁽²⁾	Specific Weight ⁽¹⁾
>70%	> 100 KPa	27 MN/m ³	230 - 300 Kg/m ³
	0	27 MN/m ³	1 0

*⁽¹⁾ ASTM F1315 • ⁽²⁾ ISO 9052-1 & ISO 7626-5 • ⁽³⁾ ASTM F152 • ⁽⁴⁾ ASTM F36



ACOUSTICAL RESULTS

Thickness (mm)	ΔL _w (dB) ⁽¹⁾	IIC (dB) ⁽²⁾
4	19	51
4/2	23	52
6	20	51
6/3	23	52

(1)ISO 10140-1, ISO 10140-3 & ISO 10140-4 • ⁽²⁾ASTM E492-09 & ASTM E989-06



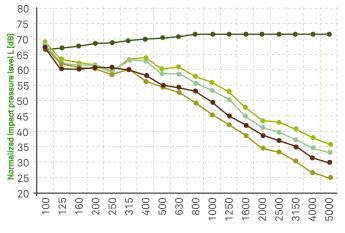
STANDARD DIMENSIONS

Thickness (mm)	4	4/2	6	6/3	
Width (m) x Length (m)	1 x 15	1 x 30	1 x 10	1 x 20	
Others sizes available upon request					





Test procedure according to standards ISO 10140-1:2010; ISO 10140-3:2010; ISO 10140-4:2010 and ISO



Frequency [Hz]

 $L_{\rm n,r}$ - Normalized impact sound pressure level of the reference floor with the floor covering under test; $L_{h_{x,0}}^{''}$ - Normalized impact sound pressure level of the Lab reference floor; $\Delta L_{-}^{'}$ - Impact sound pressure level reduction index of the covering under test, on a normalized floor;

Ref. Test Report	Thickness	L _{n,r,w} (C _{l,r})	$\Delta L_{W}(C_{LA})$
ACL219/14	4 mm	59 (0) dB	19 (-11) dB
ACL311/15	4/2 mm	55 (1) dB	23 (-12) dB
ACL220/14	6 mm	58 (0) dB	20 (-11) dB
ACL171/15	6/3 mm	55 (1) dB	23 (-12) dB



L (dB) - 6mm L_o (dB) - 6/3mm

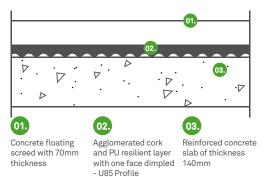
L_ (dB) - 10mm

TEST APPARATUS (ΔL_w & IIC)



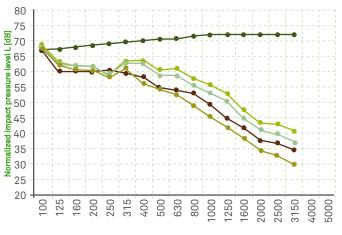
Concrete floating Agglomerated cork and PU resilient screed with 70mm thickness layer - U85

Reinforced concrete slab of thickness 140mm



ACOUSTICAL RESULTS

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





L_{n.r}(dB) - 6/3mm

L_{nr}(dB) - 6mm

L_{n,r} (dB) - 10mm

Frequency [Hz]

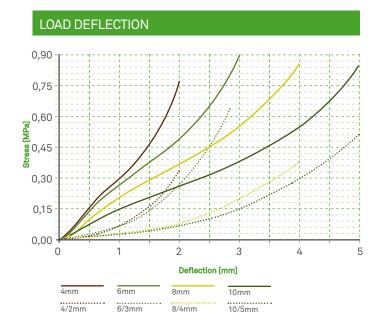
 $L_{\rm ref}$ - Normalized impact sound pressure level of the reference floor with the floor covering under test; $L_{\rm refc}$ - Normalized impact sound pressure level of the Lab reference floor;

Thickness	IIC _c
4 mm	51 dB
4/2 mm	52 dB
6 mm	51 dB
6/3 mm	52 dB

*Improvement in impact insulation class



PHYSICAL AND MECHANICAL PROPERTIES





DYNAMIC STIFFNESS

Test procedure according to standards ISO 9052-1, ISO 7626-5

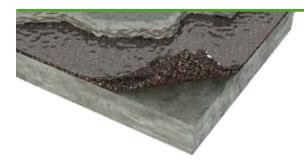
Thickness	4mm	4/2mm	6mm	6/3mm	8mm	8/4mm	10mm	10/5mm
Dynamic Stiffness (MN/m ³)	85	52	82	50	72	32	60	27



INSTALLATION



FLOATING SCREED



UNDERSCREED

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 and screed.

Room Conditions

Temperature > -5°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.

Perimeter Insulation Barrier

Install a perimeter insulation barrier vertically around the entire perimeter of the room with width equal to that of the floor build up. This is highly recommended in order to avoid lateral propagation of impact noise. The barrier must also be applied in the perimeter of pipes, ducts or any other component protruding from the floor. Spot adhere the strips to the wall using acrylic glue or a bead of silicone sealant.

Installation Instruction for Acousticork U85

Unpack the Acousticork U85 at least 24h before the installation and store it in the room where the installation will take place. Cut and trim the Acousticork U85 to the desined size to fit the installation. Apply directly over the subfloor. Always ensure that material is installed to fit the application avoiding the creation of waves in the material. In case of profile material, dimple side must face down. Place the Acousticork U85 directly against the insulation perimeter barrier already installed. Proceed to cover the entire floor making sure that the joints are butted tight and use an adequate tape to fix it. After completion, the Acousticork U85 should cover the entire flooring area without gaps and with joints securely taped. An waterproof membrane (ex. Polyethylene foil) minimum 0.2mm covering the entire flooring area MUST be installed prior to the screed. Install it, minimum 150mm wide vertically and overlapping it, minimum 100mm. After completion, the insulation vapour barrier should cover the entire Acousticork U85 area without gaps. Never mechanically fasten the Acousticork U85 and/or the PE foil barrier with screws, nails or staples as this will severely diminish the performance of the insulation barrier.

Screed and Final Flooring

Cast a suitable screed over the loose laid PE foil previously installed over the product.

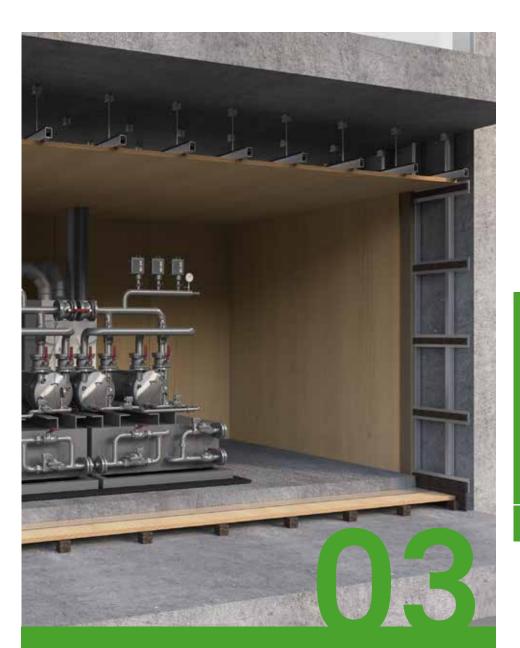
Always follow manufacturers recommended installation instructions.

For detailed installation instructions, please contact us.



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REINVENTING SUSTAINABLE GREEN AND ACOUSTIC INSULATION

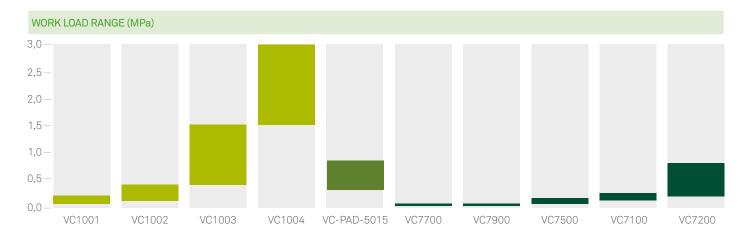


VIBRATION CONTROL



VIBRATION CONTROL

ACOUSTICORK's specific material formulations for vibration control ally performance to environmental concerns.



CORK & NATURAL RUBBER ENGINEERED COMPOUND



FEATURES:

- Dynamic-to-static stiffness ratio (1,5 2,5)
- Low Damping
- Low Creep
- Low Water Absorption
- High Poisson Ratio (Shape Factor Dependency)
 UV/Ozone upon request

BENEFITS:

- High Vibration Isolation
- Low Resonance Frequency
- Long Term Durability
- Can be used in Strips or Pads

RESIN BONDED CORK & RECYCLED RUBBER



FEATURES:

- Dynamic-to-static stiffness ratio (2 3,5)

- High Damping
 Low Poisson Ratio
 (No Shape Factor Dependency)
 Recycled Products

BENEFITS:

- High Vibration Isolation
- Lower Amplification at Resonance

- Long Term Durability
 Good Quality/Value Ratio
 Can be used in Mats, Strips or Pads

RESIN BONDED RECYCLED RUBBER



FEATURES:

- Dynamic-to-static stiffness ratio (2 3)
- Low Damping
 Fatigue Resistance
 Low Poisson Ratio

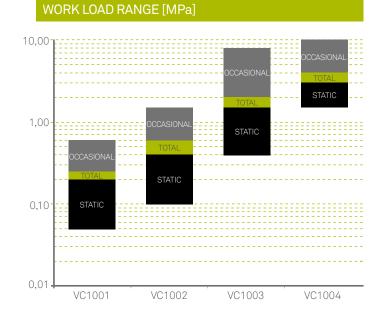
- (No Shape Factor Dependency) Recycled Products

BENEFITS:

- High Vibration Isolation
- Long Term Durability
 Good Quality/Value Ratio
- Can be used in Mats and Strips

MATERIAL DESCRIPTION & PROPERTIES





FEATURES

- Long term durability
- Low natural frequency / High vibration isolation
- Low water absorption
- Low creep rate

VC1001 Vibration Control material is an engineered compound with Cork and Natural Rubber.

21001

MATERIAL DATA SHEET

This product is suitable for vibration control applications in need of very high isolation levels, used as discrete isolators (pads/strips) with a low ressonance frequency and low load.

LOAD RANGE

STATIC	0,05 - 0,20 MPa (7 - 29 psi)
• TOTAL	0,25 MPa (36 psi)
OCCASIONAL	0,60 MPa (87 psi)

E-MODULE (@ stable load)

STATIC	0,8 - 1,5 MPa (116 - 217 psi)
DYNAMIC	1,2 - 3,6 MPa (174 - 522 psi)

TEMPERATURE

-10/+100°C (+14/212°F) RANGE

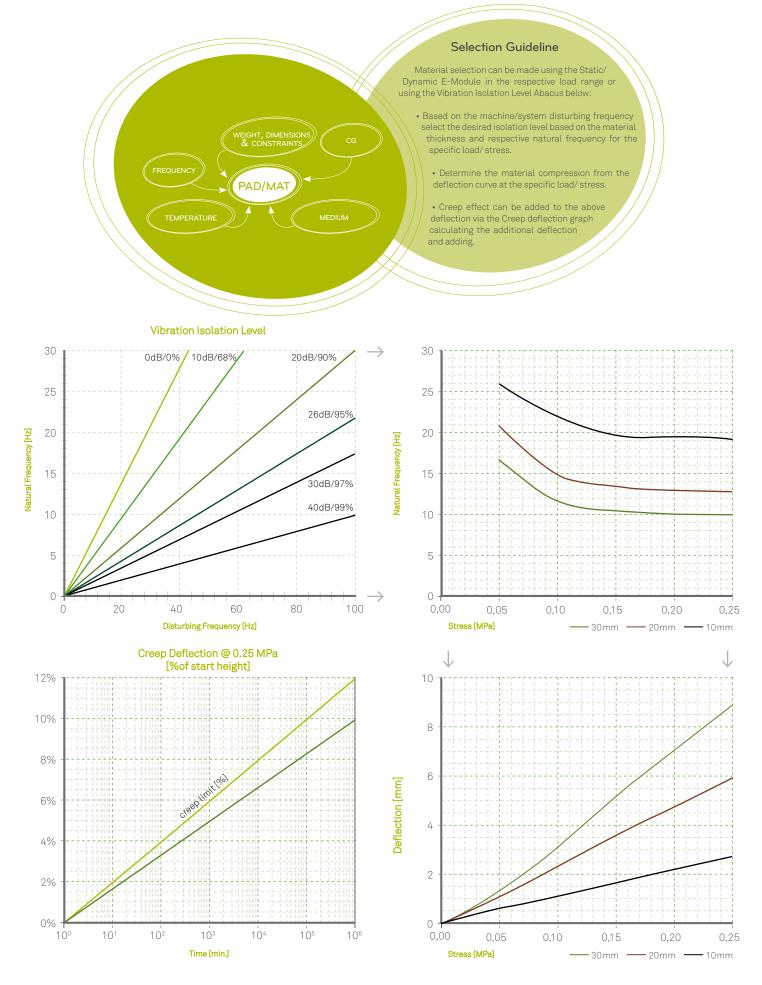
Density (kg/m³) ⁽¹⁾	500 (31 lb/ft³)
Shore hardness (Shore A) $^{\scriptscriptstyle (2)}$	20 - 35
Elongation at break (%) (3)	> 80
Tensile strength (MPa) (3)	>0,25 (>36 psi)
Compression set 50%/23°C/70h (%) (4)	< 20
Compressibility at 0,7 MPa (%) $^{\scriptscriptstyle{(5)}}$	45 - 60
Recovery at 0,7MPa (%) ⁽⁵⁾	> 85

(1) ASTM D297 (2) ASTM D2240 (3) ASTM F152 (4) DIN EN ISO 1856 (5) ASTM F36



CORK & NATURAL RUBBER



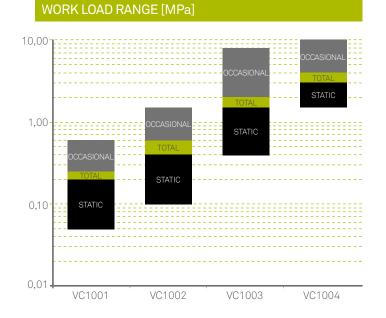




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MATERIAL DESCRIPTION & PROPERTIES





FEATURES

- Long term durability
- Low natural frequency / High vibration isolation
- Low water absorption
- Low creep rate

VC1002 Vibration Control material is an engineered compound with Cork and Natural Rubber.

C1002

MATERIAL DATA SHEET

This product is suitable for vibration control applications in need of very high isolation levels, used as discrete isolators (pads/strips) with a low ressonance frequency and medium low load.

LOAD RANGE

STATIC	0,10 - 0,40 MPa (14 - 58 psi)
• TOTAL	0,60 MPa (87 psi)
OCCASIONAL	1,50 MPa (218 psi)

E-MODULE (@ stable load)

• STATIC	1,6 - 4,0 MPa (232 - 580 psi)
DYNAMIC	3,5 - 8,0 MPa (507 - 1160 psi)

TEMPERATURE

 RANGE -10/+100°C (+14/212°F)

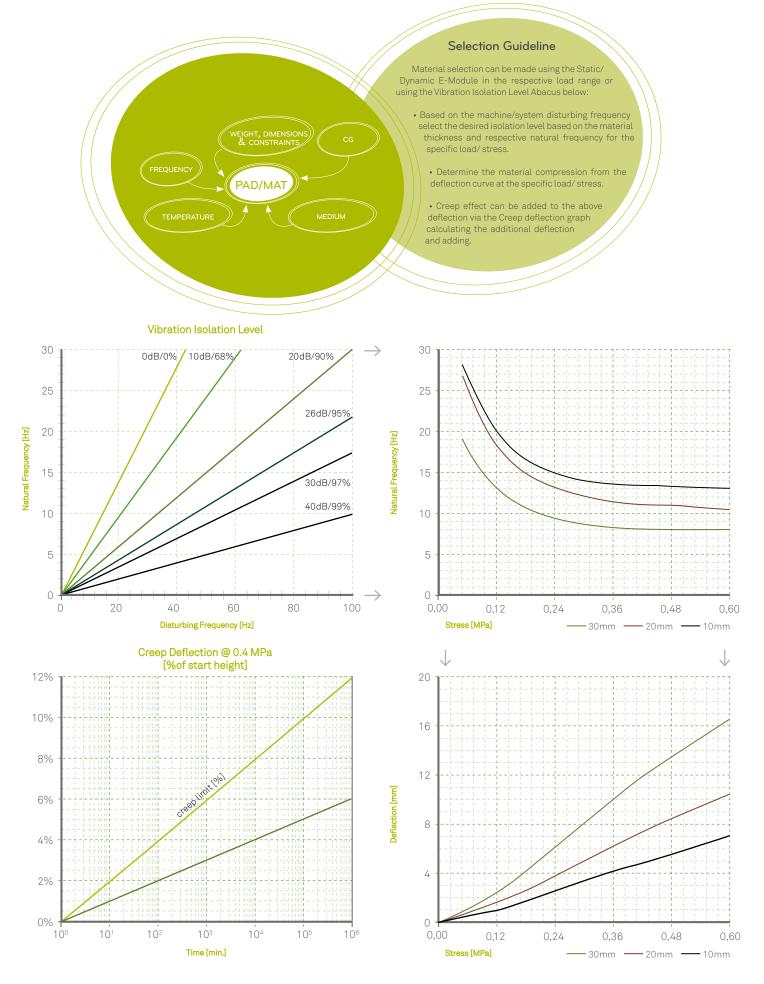
Density (kg/m³) ⁽¹⁾	700 (44 lb/ft³)
Shore hardness (Shore A) $^{\scriptscriptstyle (2)}$	35 - 50
Elongation at break (%) $^{\scriptscriptstyle (3)}$	> 200
Tensile strength (MPa) (3)	> 2,0 (>290 psi)
Compression set 50%/23°C/70h (%) (4)	< 15
Compressibility at 0,7 MPa (%) ⁽⁵⁾	55 - 65
Recovery at 0,7MPa (%) ⁽⁵⁾	> 90

(1) ASTM D297 (2) ASTM D2240 (3) ASTM F152 (4) DIN EN ISO 1856 (5) ASTM F36





CORK & NATURAL RUBBER

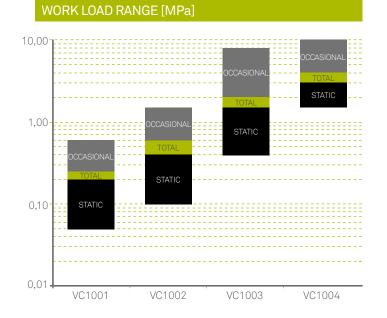




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MATERIAL DESCRIPTION & PROPERTIES





FEATURES

- Long term durability
- Low natural frequency / High vibration isolation
- Low water absorption
- Low creep rate

VC1003 Vibration Control material is an engineered compound with Cork and Natural Rubber.

C1003

MATERIAL DATA SHEET

This product is suitable for vibration control applications in need of very high isolation levels, used as discrete isolators (pads/strips) with a low ressonance frequency and medium load.

LOAD RANGE

STATIC	0,40 - 1,50 MPa (58 - 218 psi)
• TOTAL	2,0 MPa (290 psi)
OCCASIONAL	8,0 MPa (1160 psi)

E-MODULE (@ stable load)

STATIC	5,0 - 13,0 MPa (725 - 1885 psi)
DYNAMIC	10.0 - 33.0 MPa (1450- 4785 psi

TEMPERATURE

• RANGE	-10 / +100°C (+14 / 212 °F)
---------	-----------------------------

Density (kg/m³) ⁽¹⁾	1100 (68 lb/ft³)
Shore hardness (Shore A) $^{\scriptscriptstyle (2)}$	45 - 60
Elongation at break (%) (3)	> 300
Tensile strength (MPa) (3)	> 5,0 (>725 psi)
Compression set 50%/23°C/70h (%) (4)	< 15
Compressibility at 0,7 MPa (%) ⁽⁵⁾	40 - 60
Recovery at 0,7MPa (%) ⁽⁵⁾	> 90

(1) ASTM D297(2) ASTM D2240(3) ASTM F152

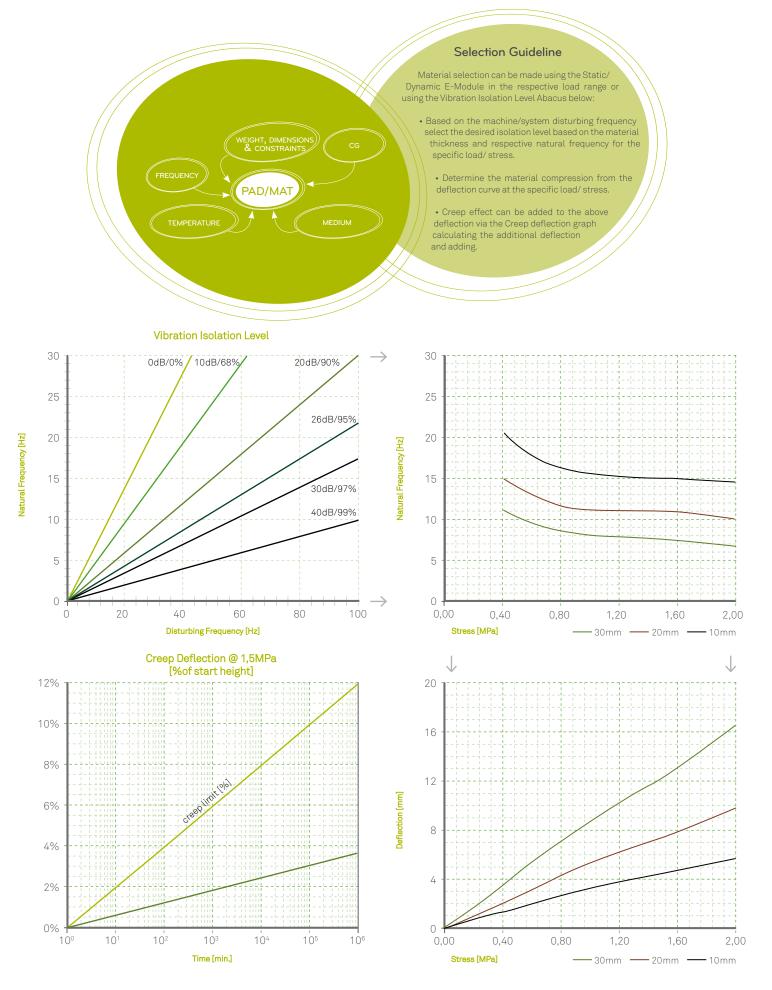
(4) DIN EN ISO 1856 (5) ASTM F36



03



CORK & NATURAL RUBBER

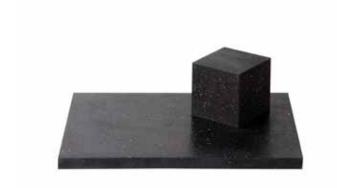


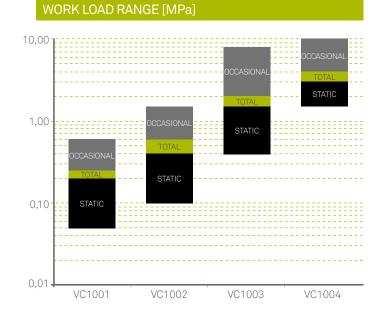


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www.amorimcorkcomposites.com

MATERIAL DESCRIPTION & PROPERTIES





FEATURES

- Long term durability
- Low natural frequency / High vibration isolation
- Low water absorption
- Low creep rate

VC1004 Vibration Control material is an engineered compound with Cork and Natural Rubber.

21004

MATERIAL DATA SHEET

This product is suitable for vibration control applications in need of very high isolation levels, used as discrete isolators (pads/strips) with a low ressonance frequency and medium high load.

LOAD RANGE

STATIC	1,5 - 3,0 MPa (217 - 435 psi)
• TOTAL	4,0 MPa (580 psi)
OCCASIONAL	10,0 MPa (1450 psi)

E-MODULE (@ stable load)

STATIC	8,0 - 20,0 MPa (1160 - 2900 psi)
DYNAMIC	16,0 - 50,0 MPa (2320- 7251 psi)

TEMPERATURE

• **RANGE** -10 / +100°C (+14 / 212 °F)

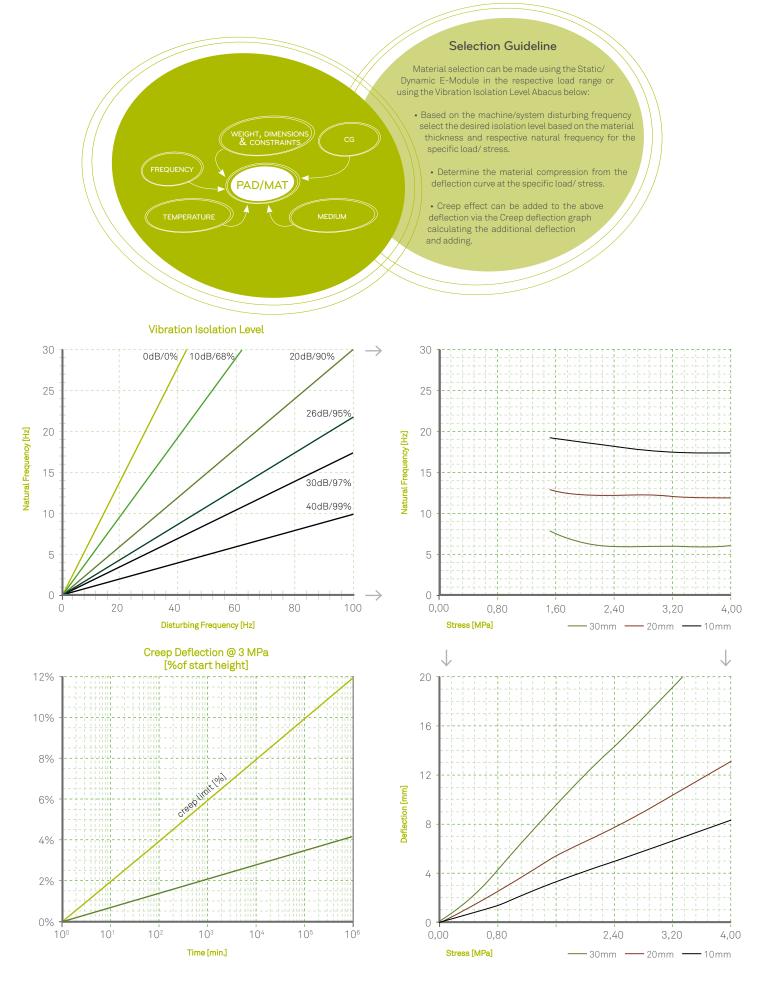
Density (kg/m³) ⁽¹⁾	1125 (70 lb/ft ³)
Shore hardness (Shore A) ⁽²⁾	60 - 80
Elongation at break (%) $^{\scriptscriptstyle (3)}$	> 100
Tensile strength (MPa) (3)	>6,0 (<870 psi)
Compression set 50%/23°C/70h (%) (4)	< 15
Compressibility at 0,7 MPa (%) $^{(5)}$	40 - 60
Recovery at 0,7MPa (%) ⁽⁵⁾	> 85

(1) ASTM D297(2) ASTM D2240(3) ASTM F152

(4) DIN EN ISO 1856 (5) ASTM F36



CORK & NATURAL RUBBER





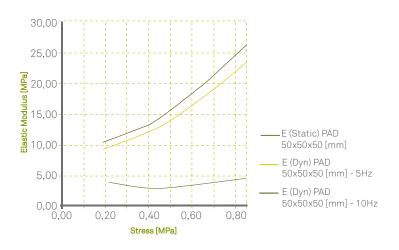
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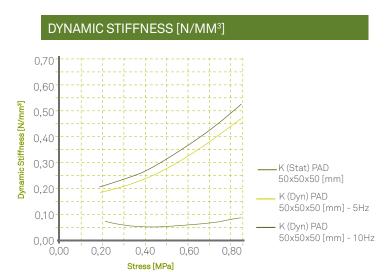
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MATERIAL DESCRIPTION & PROPERTIES



MODULUS OF ELASTICITY [MPa]





VC-PAD-5015 is an engineered composite with Cork and polymeric matrix structure.

This product is suitable for vibration control in construction, used in the form of a cube, as discrete isolators in the decoupling of floating floors.

LOAD RANGE

• **STATIC** 0,30 - 0,85 MPa (43 - 123 psi)

E-MODULE (@ stable load)

VC-PAD-5015

MATERIAL DATA SHEET

STATIC	2,9 - 4,4 MPa (420 - 640 psi)
DYNAMIC	13 - 27 MPa (1885 - 3920 psi)

TEMPERATURE

• RANGE -	-10 / +100°C (+14 / 212 °F
-----------	----------------------------

Density (kg/m³) ⁽¹⁾		600 (40 lb/ft³)
Shore hardness (Shore A) (2)		60 - 70
Elongation at break (%)	(3)	> 15
Tensile strength (MPa) ⁽³⁾		>0,7 (>102 psi)
Compression set 50%/23°C/70h (%) (4)		< 15
Compressibility at 0,7 MPa (%) ⁽⁵⁾		35 - 50
Recovery at 0,7MPa (%) ⁽⁵⁾		>70
(1) ASTM D297	(4) DIN 53572	

(2) ASTM D2240 (3) ASTM F152 (4) DIN 53572 (5) ASTM F36

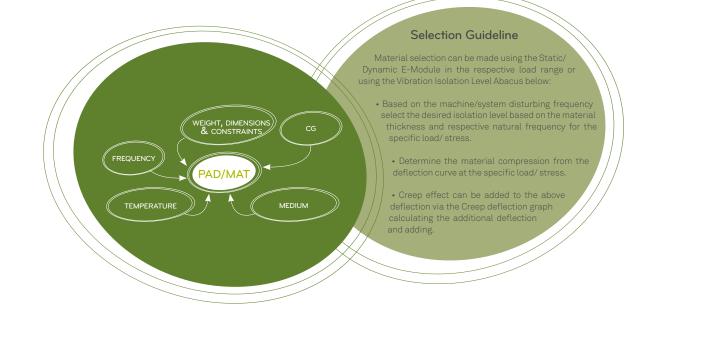
FEATURES

- Long term durability
- Low natural frequency / High vibration isolation
- Low water absorption
- Low creep rate

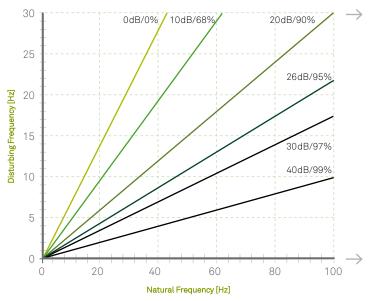


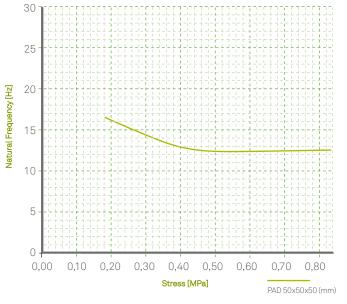
03

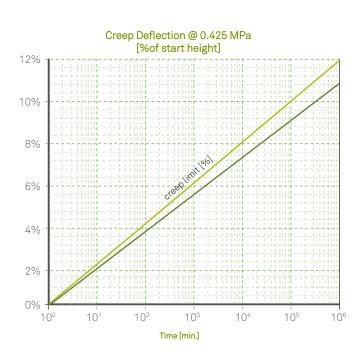
CORK & RECYCLED RUBBER

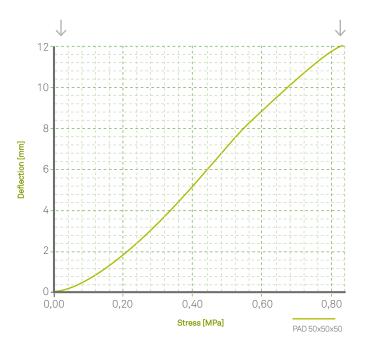


Vibration Isolation Level





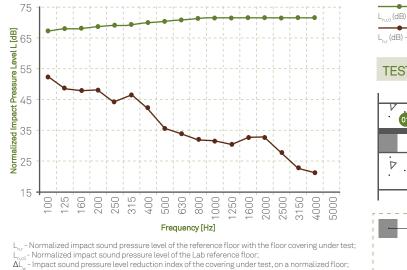






ACOUSTICAL RESULTS

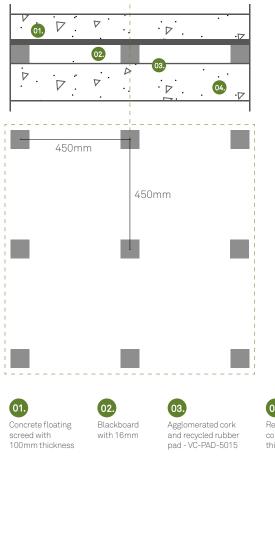
Test procedure according to standards ISO 10140-1:2010; ISO 10140-3:2010; ISO 10140-4:2010 and ISO 717-2:2013



Ref. Test Report	Dimensions	L _{n.r.w} (C _{Lr})	$\Delta L_{w}(C_{LA})$
A15-177	50x50x50 (mm)	42 (5) dB	36 (-5) dB

L_{oro} (dB) L_ (dB) - 50x50x50mm

TEST APPARATUS [ALW & IIC]









L_{ref.c} (dB) - 50x50x50mm

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

Dimensions	liC _c
50x50x50 (mm)	67dB





Agglomerated cork and

recycled rubber pad VC-PAD-5015

04







slab



Perimeter insulation barrier

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 and screed.

Room Conditions

Temperature > -5°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 VC-PAD 5015

Unpack the Acousticork VC-PAD-5015 at least 24h before the installation and store it in the room where the application will take place.

Loosely place the product according with the placement and distances defined in the project specifications ensuring the correct distribution of loads.

Lay the blackboard panels on top of the pads, making

sure that their position doesn't change with this operation, and that the joints of the panels are butted tight.

Install polyethylene foil (PE) over the blackboard panels and perimeter insulation barrier in order to make sure that no concrete water can penetrate the system. It is recommended to install this foil with sufficient overlaps.

Perimeter Insulation Barrier

Install a perimeter insulation barrier vertically around the entire room perimeter. It should have enough width to decouple the screed from the walls and consequently reduce the transmission of marginal noise. The barrier must also be applied around the surface of pipes and ducts or other element protruding from the floor. Spot adhere the strips to the wall using acrylic glue on a bead of silicon sealant.

Screed and final flooring

Cast a suitable screed over the loose laid PE foil previously installed over the blackboard.

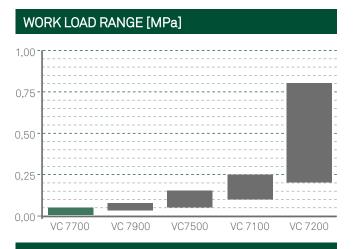
Always follow manufacturers recommended installation instructions.

For detailed installation instructions, please contact us.

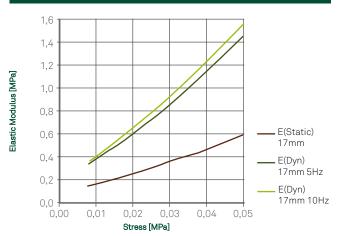


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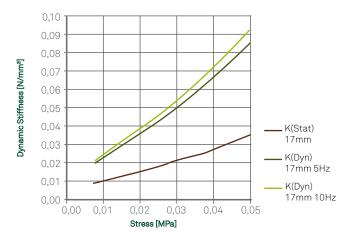
MATERIAL DESCRIPTION & PROPERTIES



ELASTIC MODULUS [MPA]



DYNAMIC STIFFNESS [N/mm³]



VC 7700 is an engineered polyurethane-bound recycled rubber-granulate material with a profiled surface.

700

MATERIAL DATA SHEET

RECYCLED RUBBER

This product is suitable for vibration control in construction, used as a mat or strip for ultra low loads, to reduce vibration, absorb shock and structural borne noise.

LOAD RANGE

• **PERMANENT STATIC** 0,01-0,05 MPa (1,5 - 7,3 psi)

E-MODULE

• STATIC ⁽¹⁾	0,17-0,60 MPa (25- 87 psi)
• DYNAMIC ⁽²⁾	0,35-1,6 MPa (51 - 232 psi)
(1) DIN 53513 (ADAPTED) - TANGENTI (2) DIN 53513 (ADAPTED) - DEPENDIN	

Compression Set (%) (1)	6,2
Tensile Strength (MPa) ⁽²⁾	> 0,25 (36 psi)
Elongation at break (%) (2)	> 60
Tear-Resistance (N/mm) ⁽³⁾	>3,217
Flammability ⁽⁴⁾	*B2
(1) DIN 53572 - MEASURED 30MIN AFTER DECOMPRESSION WITH 50% DEFORMATION / 23°C AFTER 72H	

(2) DEFORMATION / 23°C AFTER 72H
 (2) DIN 53571
 (3) DIN 53515
 (4) DIN 4102

* B2 = NORMAL FLAMMABLE

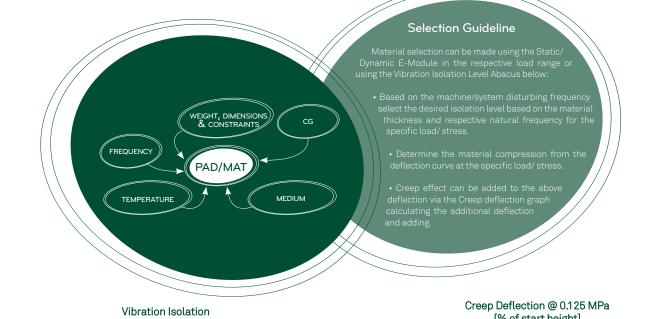
FEATURES

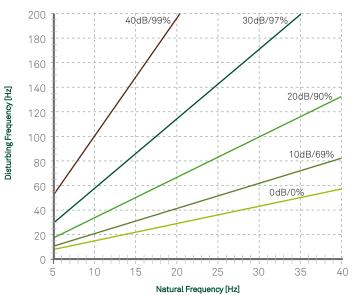
- Revalorised product
- Supplied in rolls, sheets or strips

• Available in a max. width of 1250mm and up to a length of 10m.

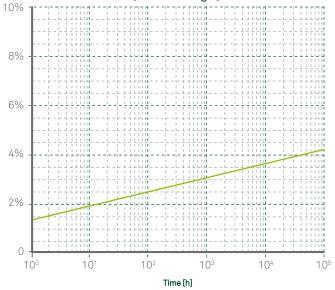


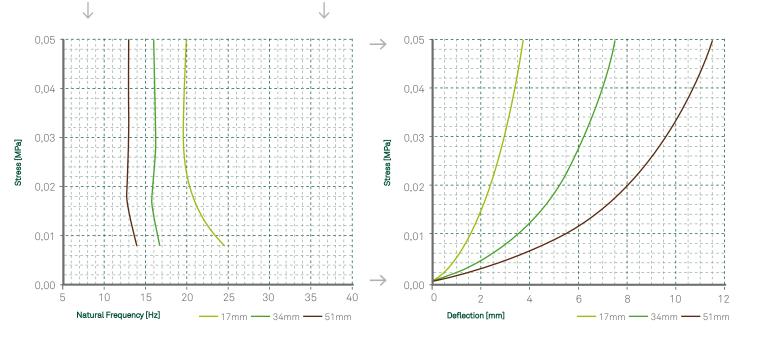






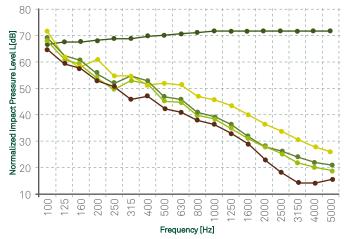
[% of start height]







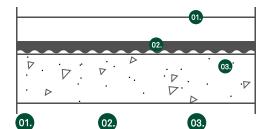
ACOUSTICAL RESULTS Test procedure according to standards ISO 10140-1:2010; ISO 10140-3:2010; ISO 10140-4:2010 and ISO 717-2:2013



L_{oro}(dB) L_{nr} (dB) - 8/4mm L. (dB) - 10/5mm L_{nr} (dB) - 12/6mm

L. (dB) - 17/9mm

TEST APPARATUS [ΔL_w & IIC]



Agglomerated

VC 7700

recycled rubber

Normalized impact sound pressure level of the reference floor with the floor covering under test;
 - Normalized impact sound pressure level of the Lab reference floor;

 $\Delta L_{\rm L}$ - Impact sound pressure level reduction index of the covering under test, on a normalized floor; Concrete floating screed with 70mm resilient layer with one face dimpled thickness

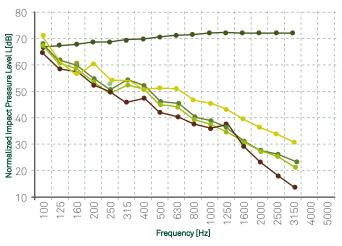
Reinforced concrete slab of thickness 140mm

Ref. Test Report	Thickness	L _{n,r,w} (C _{l,r})	$\Delta L_{w}(C_{LA})$
ACU 118/09	8/4mm	54 (4) dB	24 (-15) dB
ACL 002/13	10/5mm	53 (3) dB	25 (-14) dB
ACL 019/13	12/6mm	51 (4) dB	27 (-15) dB
ACL 009/15	17/9mm	49 (3) dB	29 (-14) dB



ACOUSTICAL RESULTS

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





L_{or} (dB) - 10/5mm L_{n.r} (dB) - 12/6mm

L_{nr} (dB) - 17/9mm

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

Thickness	liC _c
8/4 mm	48 dB
10/5 mm	50 dB
12/6 mm	52 dB
17/9 mm	55 dB





01.

04.

screed

Concrete floating









06 Adhesive

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 and screed.

Room Conditions

Temperature > -5°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.

Perimeter Insulation Barrier

Install a perimeter insulation barrier vertically around the entire perimeter of the room with width equal to that of the floor build up. This is highly recommended in order to avoid lateral propagation of impact noise. The barrier must also be applied in the perimeter of pipes, ducts or any other component protruding from the floor. Spot adhere the strips to the wall using acrylic glue or a bead of silicone sealant.

Installation Instruction for Acousticork VC7700

Unpack the Acousticork VC7700 at least 24h before the installation and store it in the room where the installation will take place. Cut and trim the Acousticork VC 7700 to the desined size to fit the installation. Apply directly over the subfloor. Always ensure that material is installed to fit the application avoiding the creation of waves in the material.

Place the Acousticork VC7700 directly against the insulation perimeter barrier already installed. Proceed to cover the entire floor making sure that the joints are butted tight and use an adequate tape to fix it. After completion, the Acousticork VC7700 should cover the entire flooring area without gaps and with joints securely taped. An waterproof membrane (ex. Polyethylene foil) minimum 0.2mm covering the entire flooring area MUST be installed prior to the screed. Install it, minimum 150mm wide vertically and overlapping it, minimum 100mm. After completion, the insulation vapour barrier should cover the entire Acousticork VC7700 area without gaps. Never mechanically fasten the Acousticork VC7700 and/ or the PE foil barrier with screws, nails or staples as this will severely diminish the performance of the insulation barrier.

Screed and Final Flooring

Cast a suitable screed over the loose laid PE foil previously installed over the product.

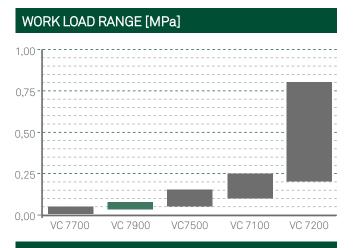
Always follow manufacturers recommended installation instructions.

For detailed installation instructions, please contact us.

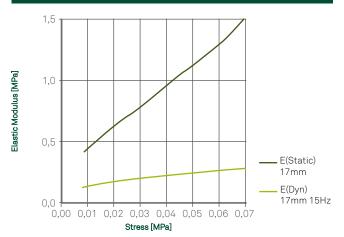


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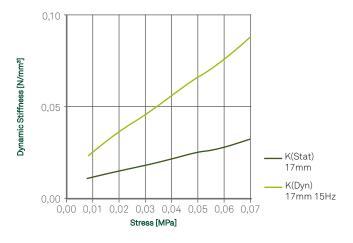
MATERIAL DESCRIPTION & PROPERTIES



ELASTIC MODULUS [MPa]



DYNAMIC STIFFNESS [N/mm³]



VC 7900 is an engineered polyurethane-bound recycled rubber-granulate material with a profiled surface.

27900

MATERIAL DATA SHEET

This product is suitable for vibration control in construction, used as a mat or strip for ultra low loads, to reduce vibration, absorb shock and structural borne noise.

LOAD RANGE

• PERMANENT STATIC 0,025-0,070 MPa (3,6 - 10,2 psi)

E-MODULE

•	STATIC ⁽¹⁾
•	DYNAMIC ⁽²⁾

0,04-0,25 MPa (6 - 36 psi psi) 0,27-1,60 MPa (39 - 232 psi)

RECYCLED RUBBER

(1) DIN 53513 (ADAPTED) - TANGENTIAL MODULUS (2) DIN 53513 (ADAPTED) - DEPENDING ON LOAD AND FREQUENCY

Compression Set (%) (1)	0,068
Tensile Strength (MPa) ⁽²⁾	>0,35 (51 psi)
Elongation at break (%) (2)	>75
Tear-Resistance (N/mm) ⁽³⁾	>6,497
Flammability ⁽⁴⁾	*B2
(1) DIN 53572 - MEASURED 30MIN AFTER DECOMPRESSION WITH 50% DEFORMATION / 23°C AFTER 72H	

(2) DEFORMATION / 23°C AFTER 72H (2) DIN 53571 (3) DIN 53515

(4) DIN 4102

* B2 = NORMAL FLAMMABLE

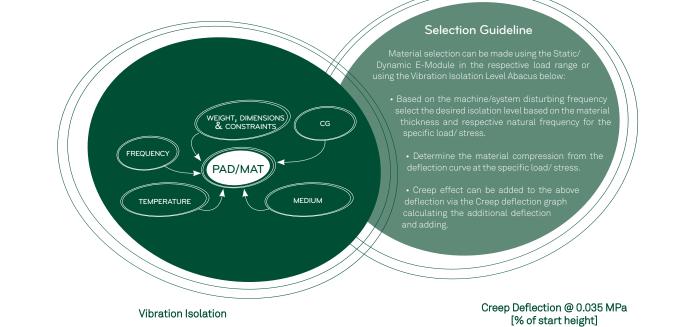
FEATURES

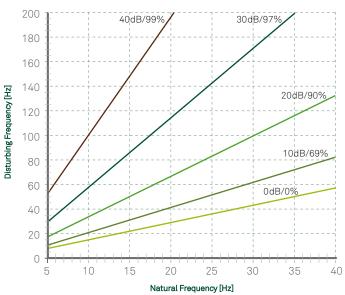
- Revalorised product
- Supplied in rolls, sheets or strips

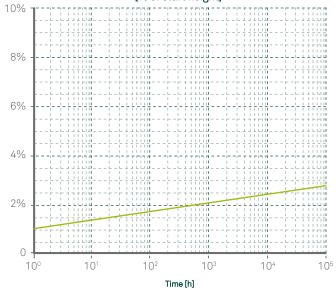
• Available in a max. width of 1250mm and up to a length of 10m.

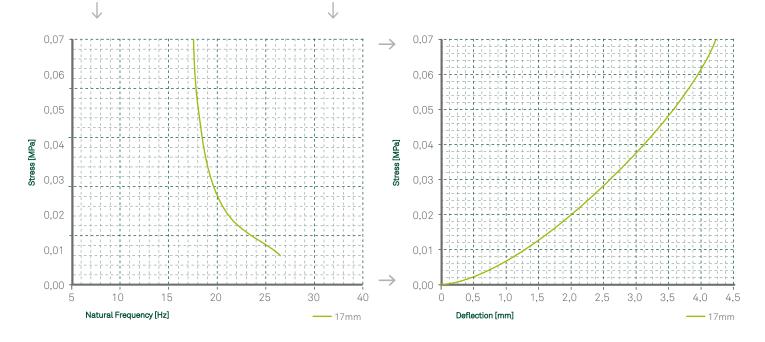


RoHS Compliant









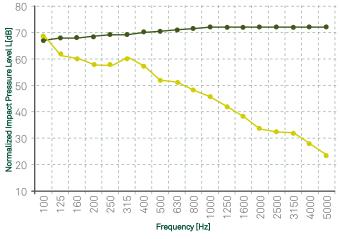


ACOUSTICAL RESULTS Test procedure according to standards ISO 10140-1:2010; ISO 10140-3:2010; ISO 10140-4:2010 and ISO 717-2:2013

L_{oro}(dB)

thickness

L_{or} (dB) - 8/4mm



 Normalized impact sound pressure level of the reference floor with the floor covering under test;
 - Normalized impact sound pressure level of the Lab reference floor; ΔL - Impact sound pressure level reduction index of the covering under test, on a normalized floor;

TEST APPARATUS [ΔL_w & IIC] 03. D V D ∇ . $\cdot \nabla$ ∇ \triangleright 01. 02. 03. Concrete floating Agglomerated Reinforced concrete screed with 70mm recycled rubber

resilient layer with

one face dimpled -VC 7900

slab of thickness 140mm

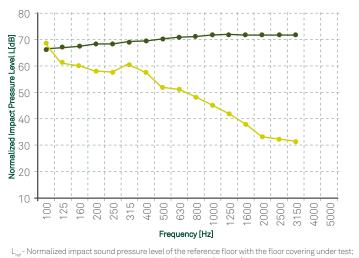
Ref. Test Report	Thickness	L _{nrw} (C ₁)	$\Delta L_{w}(C_{LA})$
ACL168/15	8/4mm	55 (1) dB	23 (-12) dB



ACOUSTICAL RESULTS

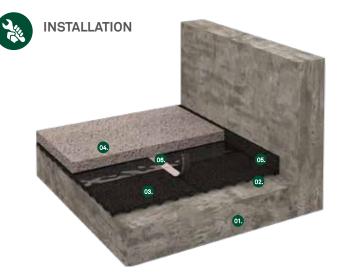
L_{refc} - Normalized impact sound pressure level of the Lab reference floor;

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



L_{ref} (dB) L_{ref,c} (dB) - 8/4 mm

Thickness	IIC _c
8/4 mm	51 dB





01.

04

screed

Concrete floating



05

barrier

Perimeter insulation



06

tape

Adhesive





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 and screed.

Room Conditions

Temperature > -5°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.

Perimeter Insulation Barrier

Install a perimeter insulation barrier vertically around the entire perimeter of the room with width equal to that of the floor build up. This is highly recommended in order to avoid lateral propagation of impact noise. The barrier must also be applied in the perimeter of pipes, ducts or any other component protruding from the floor. Spot adhere the strips to the wall using acrylic glue or a bead of silicone sealant.

Installation Instruction for Acousticork VC7900

Unpack the Acousticork VC7900 at least 24h before the installation and store it in the room where the installation will take place. Cut and trim the Acousticork VC7900 to the desined size to fit the installation. Apply directly over the subfloor. Always ensure that material is installed to fit the application avoiding the creation of waves in the material. Dimple side must face down.

Place the Acousticork VC7900 directly against the insulation perimeter barrier already installed. Proceed to cover the entire floor making sure that the joints are butted tight and use an adequate tape to fix it. After completion, the Acousticork VC7900 should cover the entire flooring area without gaps and with joints securely taped. An waterproof membrane (ex. Polyethylene foil) minimum 0.2mm covering the entire flooring area MUST be installed prior to the screed. Install it, minimum 150mm wide vertically and overlapping it, minimum 100mm. After completion, the insulation vapour barrier should cover the entire Acousticork VC7900 area without gaps. Never mechanically fasten the Acousticork VC7900 and/ or the PE foil barrier with screws, nails or staples as this will severely diminish the performance of the insulation barrier.

Screed and Final Flooring

Cast a suitable screed over the loose laid PE foil previously installed over the product.

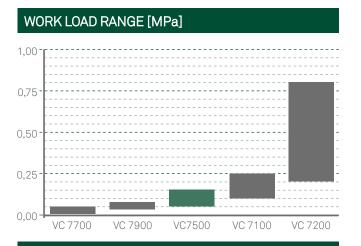
Always follow manufacturers recommended installation instructions.

For detailed installation instructions, please contact us.

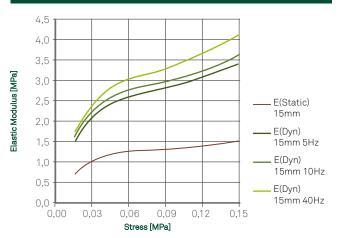


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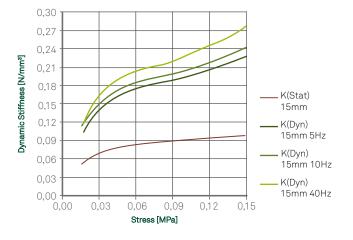
MATERIAL DESCRIPTION & PROPERTIES



ELASTIC MODULUS [MPa]



DYNAMIC STIFFNESS [N/mm³]



VC 7500 is an engineered polyurethane-bound recycled rubber-granulate material.

C7500

MATERIAL DATA SHEET

This product is suitable for vibration control in construction, rail infrastructure and industrial applications, used as a mat or strip for low loads, to reduce vibration, absorb shock and structural borne noise.

LOAD RANGE

PERMANENT STATIC

0,05-0,15 MPa (7,3 - 21,8 psi)

RECYCLED RUBBER

E-MODULE

STATIC ⁽¹⁾	1,20-1,50 MPa (174 - 218 psi)
 DYNAMIC⁽²⁾ 	2,30-4,30 MPa (333 - 624psi)

(1) DIN 53513 (ADAPTED) - TANGENTIAL MODULUS (2) DIN 53513 (ADAPTED) - DEPENDING ON LOAD AND FREQUENCY

Compression Set (%) (1)	1,6
Tensile Strength (MPa) ⁽²⁾	>0,25 (36 psi)
Elongation at break (%) ⁽²⁾	>60
Tear- Resistance (N/mm) ⁽³⁾	>3,5
Flammability ⁽⁴⁾	*B2
(1) DIN 53572 - MEASURED 30MIN AFTER DECOM	PRESSION WITH 50%

(1) DIN 53572 - MEASURED 30MIN AFTER DECOMPRESSION WITH 50% DEFORMATION / 23°C AFTER 72H (2) DIN 53571

(3) DIN 53515 (4) DIN 4102

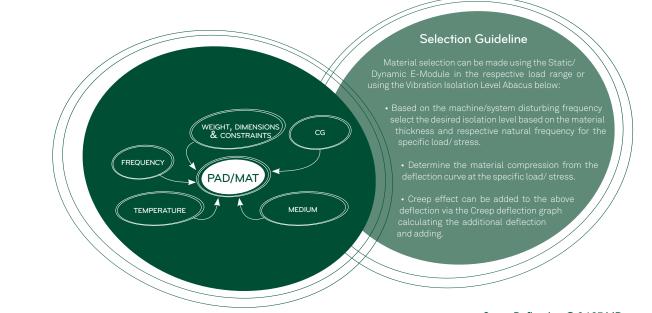
* B2 = NORMAL FLAMMABLE

FEATURES

- Revalorised product
- Supplied in rolls, sheets or strips
- Available in a max. width of 1250mm and up to a length of 10m.

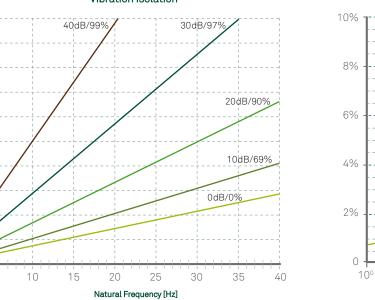




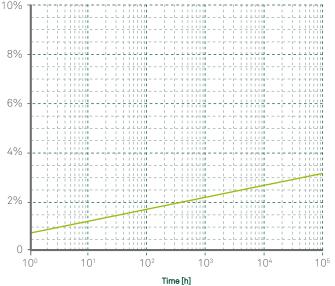


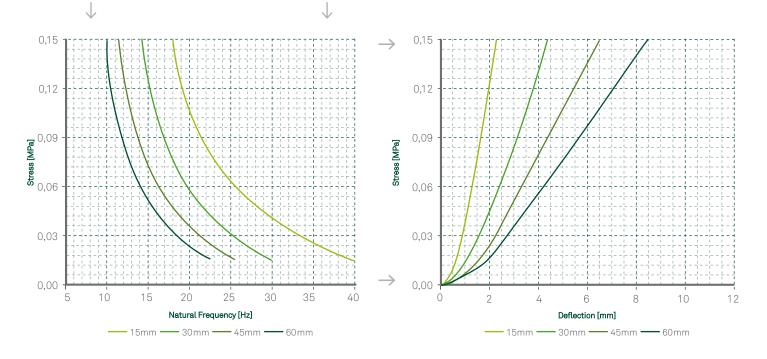
Vibration Isolation

Disturbing Frequency [Hz]



Creep Deflection @ 0.125 MPa [% of start height]





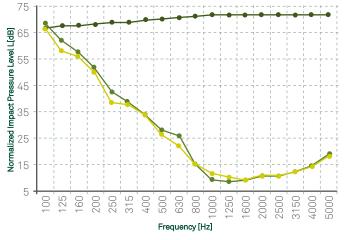
Note: 30mm, 45mm and 60mm thickness achieved through stacking 15mm (flat) thickness layers.



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

L (dB)

*Glued Down Wood



 $L_{_{\rm LC}}$ - Normalized impact sound pressure level of the reference floor with the floor covering under test; $L_{_{\rm LCD}}$ - Normalized impact sound pressure level of the Lab reference floor; $\Delta L_{_{\rm RC}}$ - Impact sound pressure level reduction index of the covering under test, on a normalized floor;

TEST APPARATUS [ΔL., & IIC] 02 ⊳ 04 D · 7 ·V ∇ Þ C 05. 07. 01. 04. 02. (03.) Glued Down Wood with Concrete Floating Agglomerated Reinforced concrete slab of thickness 21mm thickness or natural stone plates screed with 30mm thickness. recycled rubber resilient layer - VC 140mm. with 20mm thickness. 7500 05. 07. 06. Air gap with 150mm. Mineral wool with Gypsum boards with 50mm thickness 12mm thickness. and low density.

L_{nr} (dB) - 4,5mm (Stone)

L_{nr} (dB) - 4,5mm (GDW)*

L (dB) - 4,5mm (Stone)

L__(dB) - 4,5mm (GDW)*

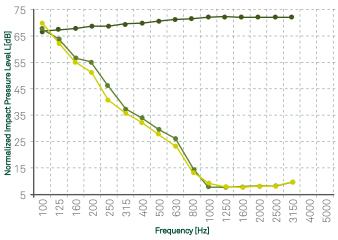
Ref. Test R	eport	Thickness	Flooring	L _{n,rw} (C _{l,r})	$\Delta L_{w}(C_{LA})$
ACL 289	/15	4,5 mm	Glue Down Wood	50 (5) dB	28 (-16) dB
ACL 283	/15	4,5 mm	Stone	48 (5) dB	30 (-16) dB

<u>__</u>

ACOUSTICAL RESULTS Test procedure adapted from standards ASTM E2179-03; ASTM E492-04 and ASTM E989-89

L_{or0}(dB)

*Glued Down Wood



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

 Ref. Test Report
 Thickness
 Flooring
 IIC

 ACL 290/15
 4,5 mm
 Glue Down Wood
 52 dB

 ACL 283/15
 4,5 mm
 Stone
 49 dB





01.

04.

screed











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 and screed.

Room Conditions

Temperature > $-5^{\circ}C$ / 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.

Perimeter Insulation Barrier

Install a perimeter insulation barrier vertically around the entire perimeter of the room with width equal to that of the floor build up. This is highly recommended in order to avoid lateral propagation of impact noise. The barrier must also be applied in the perimeter of pipes, ducts or any other component protruding from the floor. Spot adhere the strips to the wall using acrylic glue or a bead of silicone sealant.

Installation Instruction for Acousticork VC7500

Unpack the Acousticork VC7500 at least 24h before the installation and store it in the room where the installation will take place. Cut and trim the Acousticork VC 7500 to the desined size to fit the installation. Apply directly over the subfloor. Always ensure that material is installed to fit the application avoiding the creation of waves in the material.

Place the Acousticork VC7500 directly against

the insulation perimeter barrier already installed. Proceed to cover the entire floor making sure that the joints are butted and use an adequate tape to fix it. After completion, the Acousticork VC7500 should cover the entire flooring area without gaps and with joints securely taped. An waterproof membrane (ex. Polyethylene foil) minimum 0.2mm covering the entire flooring area MUST be installed prior to the screed. Install it, minimum 150mm wide vertically and overlapping it, minimum 100mm. After completion, the insulation vapour barrier should cover the entire Acousticork VC7500 area without gaps. Never mechanically fasten the Acousticork VC7500 and/ or the PE foil barrier with screws, nails or staples as this will severely diminish the performance of the insulation barrier.

Screed and Final Flooring

Cast a suitable screed over the loose laid PE foil previously installed over the product.

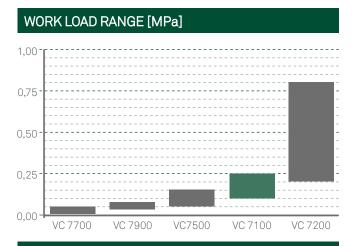
Always follow manufacturers recommended installation instructions.

For detailed installation instructions, please contact us.

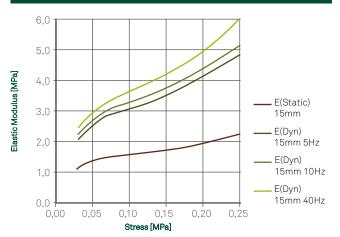


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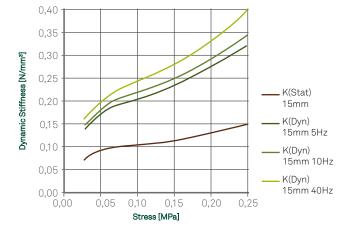
MATERIAL DESCRIPTION & PROPERTIES



ELASTIC MODULUS [MPa]



DYNAMIC STIFFNESS [N/mm³]



VC 7100 is an engineered polyurethane-bound recycled rubber-granulate material.

C7100

MATERIAL DATA SHEET

RECYCLED RUBBER

This product is suitable for vibration control in construction applications, used as a mat or strip for medium loads, to reduce vibration, absorb shock and structural borne noise.

LOAD RANGE

• PERMANENT STATIC 0,10-0,25 MPa (1,5 - 36,3 psi)

E-MODULE

STATIC ⁽¹⁾	1,50-2,10 MPa (218 - 305 psi)
DYNAMIC ⁽²⁾	2,00-6,00 MPa (377-870 psi)

(1) DIN 53513 (ADAPTED) - TANGENTIAL MODULUS (2) DIN 53513 (ADAPTED) - DEPENDING ON LOAD AND FREQUENCY

Compression Set (%) (1)	4,1
Tensile Strength (MPa) ⁽²⁾	> 0,35 (51 psi)
Elongation at break (%) (2)	> 75
Tear-Resistance (N/mm) ⁽³⁾	> 6,5
Flammability ⁽⁴⁾	*B2
(1) DIN 53572 - MEASURED 30MIN AFTER DECO DEFORMATION / 23°C AFTER 72H	MPRESSION WITH 50%

(2) DIN 53571

- (3) DIN 53515
- (4) DIN 4102

* B2 = NORMAL FLAMMABLE

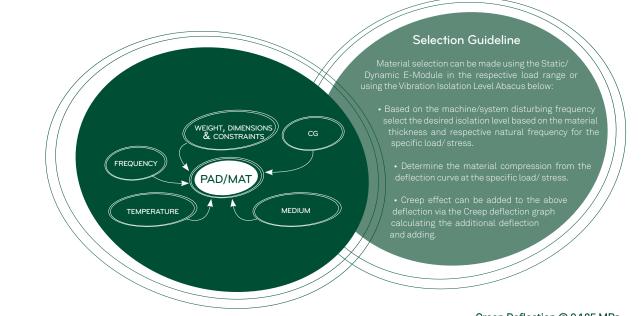
FEATURES

- Revalorised product
- Supplied in rolls, sheets or strips
- Available in a max. width of 1250mm and up to a length of 10m.









Vibration Isolation



104

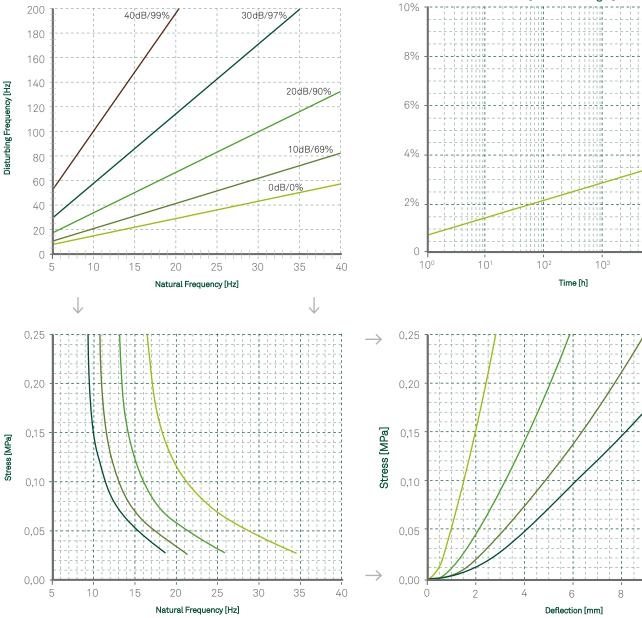
10

- 60mm

- 15mm -

12

105



Note: 30mm, 45mm and 60mm thickness achieved through stacking 15mm (flat) thickness layers.

- 45mm **-**

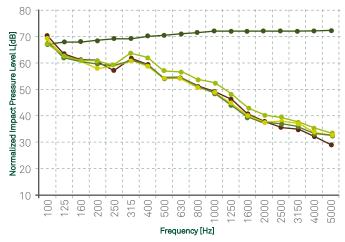
-60mm

- 30mm -

- 15mm -

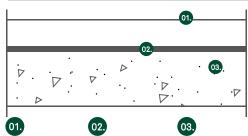


ACOUSTICAL RESULTS Test procedure according to standards ISO 10140-1:2010; ISO 10140-3:2010; ISO 10140-4:2010 and ISO 717-2:2013



L_{oro}(dB) L_{or} (dB) - 4mm L__ (dB) - 6mm L_{nr} (dB) - 8mm

TEST APPARATUS [ΔL_w & IIC]



Normalized impact sound pressure level of the reference floor with the floor covering under test;
 - Normalized impact sound pressure level of the Lab reference floor;

 $\overline{\Delta}L_{1.1}^{n,r,0}$ - Impact sound pressure level reduction index of the covering under test, on a normalized floor; Concrete Agglomerated floating screed with 70mm thickness recycled rubber resilient layer - VC 7100

Reinforced concrete slab of thickness 140mm

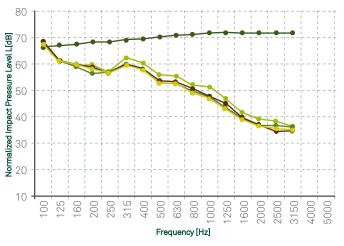
L (dB) - 10mm

Ref. Test Report	Thickness	L _{n,r,w} (C _{l,r})	$\Delta L_{w}(C_{L\Delta})$
ACL100/15	10 mm	55 (1) dB	23 (-12) dB
ACL099/15	8 mm	55 (1) dB	23 (-12) dB
ACL101/15	6 mm	56 (1) dB	22 (-12) dB
ACL102/15	4 mm	56 (2) dB	22 (-12) dB



ACOUSTICAL RESULTS

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





L_{nr} (dB) - 6mm L_{n.r} (dB) - 8mm L_{or} (dB) - 10mm

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

Thickness	IIC _c
4 mm	50 dB
6 mm	50 dB
8 mm	51 dB
10 mm	51 dB





01.

04.

screed

Concrete floating









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 and screed.

Room Conditions

Temperature > -5°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.

Perimeter Insulation Barrier

Install a perimeter insulation barrier vertically around the entire perimeter of the room with width equal to that of the floor build up. This is highly recommended in order to avoid lateral propagation of impact noise. The barrier must also be applied in the perimeter of pipes, ducts or any other component protruding from the floor. Spot adhere the strips to the wall using acrylic glue or a bead of silicone sealant.

Installation Instruction for Acousticork VC 7100

Unpack the Acousticork VC7100 at least 24h before the installation and store it in the room where the installation will take place. Cut and trim the Acousticork VC7100 to the desined size to fit the installation. Apply directly over the subfloor. Always ensure that material is installed to fit the application avoiding the creation of waves in the material.

Place the Acousticork VC7100 directly against the insulation perimeter barrier already installed. Proceed to cover the entire floor making sure that the joints are butted tight and use an adequate tape to fix it. After completion, the Acousticork VC7100 should cover the entire flooring area without gaps and with joints securely taped. An waterproof membrane (ex. Polyethylene foil) minimum 0.2mm covering the entire flooring area MUST be installed prior to the screed. Install it, minimum 150mm wide vertically and overlapping it, minimum 100mm. After completion, the insulation vapour barrier should cover the entire Acousticork VC7100 area without gaps. Never mechanically fasten the Acousticork VC7100 and/ or the PE foil barrier with screws, nails or staples as this will severely diminish the performance of the insulation barrier.

Screed and Final Flooring

Cast a suitable screed over the loose laid PE foil previously installed over the product.

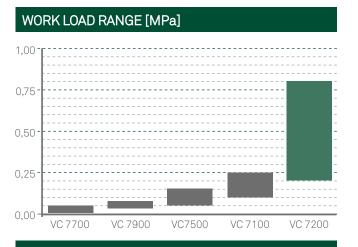
Always follow manufacturers recommended installation instructions.

For detailed installation instructions, please contact us.

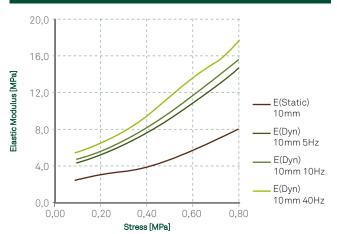


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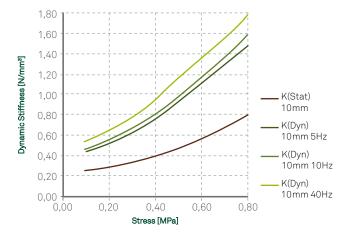
MATERIAL DESCRIPTION & PROPERTIES



ELASTIC MODULUS [MPa]



DYNAMIC STIFFNESS [N/mm³]



VC 7200 is an engineered polyurethane-bound recycled rubber-granulate material.

C7<u>200</u>

MATERIAL DATA SHEET

This product is suitable for vibration control in construction applications, used as a mat or strip for medium high loads, to reduce vibration, absorb shock and structural borne noise.

LOAD RANGE

PERMANENT STATIC

```
0,20-0,80 MPa (29 - 116 psi)
```

RECYCLED RUBBER

E-MODULE

STATIC ⁽¹⁾	3,00-8,00 MPa (435 - 1160 psi)
 DYNAMIC⁽²⁾ 	5,50-18,0 MPa (798 - 2610 psi)

(1) DIN 53513 (ADAPTED) - TANGENTIAL MODULUS (2) DIN 53513 (ADAPTED) - DEPENDING ON LOAD AND FREQUENCY

Compression Set (%) (1)	4,3
Tensile Strength (MPa) ⁽²⁾	> 0,5 (73 psi)
Elongation at break (%) ⁽²⁾	>75
Tear- Resistance (N/mm) ⁽³⁾	> 5,6
Flammability ⁽⁴⁾	*B2
(1) DIN 53572 - MEASURED 30MIN AFTER DECOMPE	RESSION WITH 50%

(1) DIN 53572 - MEASURED 30MIN AFTER DECOMPRESSION WITH 50% DEFORMATION / 23°C AFTER 72H

- (2) DIN 53571
- (3) DIN 53515 (4) DIN 4102

* B2 = NORMAL FLAMMABLE

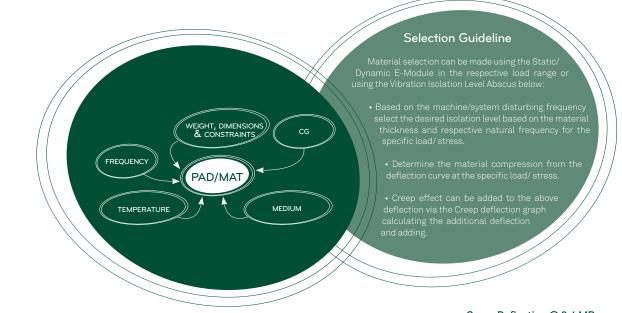
FEATURES

- Revalorised product
- Supplied in rolls, sheets or strips
- Available in a max. width of 1250mm and up to a length of 10m.



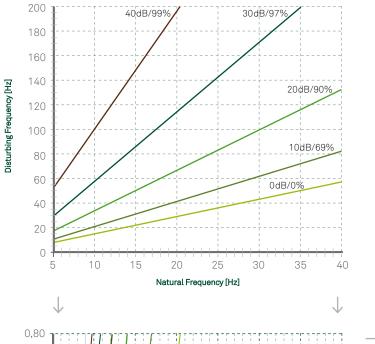






Vibration Isolation





0,60

0,20

0,00

5

- 10mm -

10

15

- 20mm -

20

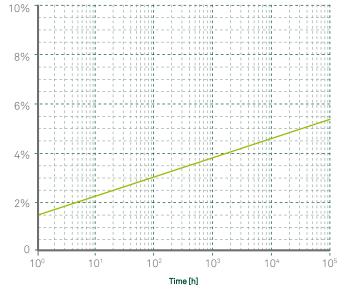
- 30mm -

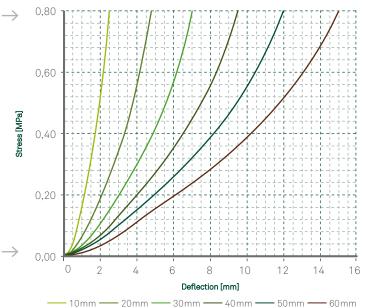
25

– 40mm –

Natural Frequency [Hz]

Stress [MPa] 0,40





Note: 20mm, 30mm, 40mm, 50mm and 60mm thickness achieved through stacking 10mm (flat) thickness layers.

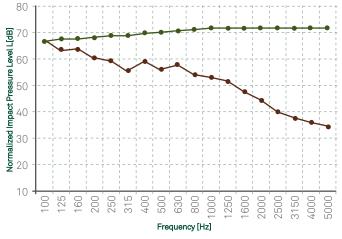
30

35

- 50mm - 60mm



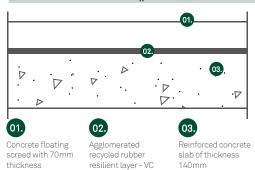
ACOUSTICAL RESULTS Test procedure according to standards ISO 10140-1:2010; ISO 10140-3:2010; ISO 10140-4:2010 and ISO 717-2:2013



L_{or0} (dB) L_{or} (dB) - 5mm

TEST APPARATUS [ΔL, & IIC]

7200



 Normalized impact sound pressure level of the reference floor with the floor covering under test;
 - Normalized impact sound pressure level of the Lab reference floor; ΔL

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

Ref. Test Report	Thickness	L _{nrw} (C _L)	$\Delta L_{w}(C_{L\Delta})$
ACU102/12	5 mm	57 (0) dB	21 (-11) dB

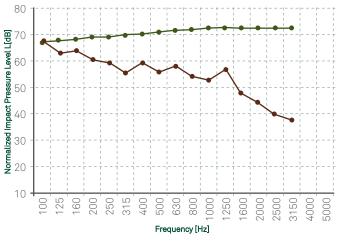


ACOUSTICAL RESULTS

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

 $L_{n,r,0}\left(dB\right)$

L_{nr} (dB) - 5mm



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

Thickness	lic
5 mm	52 dB





01.

04.











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 and screed.

Room Conditions

Temperature > -5°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.

Perimeter Insulation Barrier

Install a perimeter insulation barrier vertically around the entire perimeter of the room with width equal to that of the floor build up. This is highly recommended in order to avoid lateral propagation of impact noise. The barrier must also be applied in the perimeter of pipes, ducts or any other component protruding from the floor. Spot adhere the strips to the wall using acrylic glue or a bead of silicone sealant.

Installation Instruction for Acousticork VC 7200

Unpack the Acousticork VC7200 at least 24h before the installation and store it in the room where the installation will take place. Cut and trim the Acousticork VC7200 to the desined size to fit the installation. Apply directly over the subfloor. Always ensure that material is installed to fit the application avoiding the creation of waves in the material.

Place the Acousticork VC7200 directly against

the insulation perimeter barrier already installed. Proceed to cover the entire floor making sure that the joints are butted tight and use an adequate tape to fix it. After completion, the Acousticork VC7200 should cover the entire flooring area without gaps and with joints securely taped. An waterproof membrane (ex. Polyethylene foil) minimum 0.2mm covering the entire flooring area MUST be installed prior to the screed. Install it, minimum 150mm wide vertically and overlapping it, minimum 100mm. After completion, the insulation vapour barrier should cover the entire Acousticork VC7200 area without gaps. Never mechanically fasten the Acousticork VC7200 and/ or the PE foil barrier with screws, nails or staples as this will severely diminish the performance of the insulation barrier.

Screed and Final Flooring

Cast a suitable screed over the loose laid PE foil previously installed over the product.

Always follow manufacturers recommended installation instructions.

For detailed installation instructions, please contact us.



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REINVENTING SUSTAINABLE GREEN AND ACOUSTIC INSULATION



WALL BEARING



WALL BEARING

ACOUSTICORK increases the lifetime of the building decreasing the crack appearance, due to the decoupling of elements.

Standard Dimensions*	MS-R1	
	Wall Type	ΔR_{w}
10m x 5cm x 10mm 10m x 10cm x 10mm 10m x 15cm x 10mm 10m x 20cm x 10mm	Single Wall (60kg/m²)	2dB
	Double Wall (85kg/m²)	8dB

THE SOLUTION FOR ACOUSTIC AND ANTIVIBRATIC INSULATION OF WALLS

Data sheets refer to this specific product, although, a high range of decoupling and acoustic insulation solutions are available with the Acousticork brand. The main purpose of the Acousticork range is, more than the comfort and acoustical performance, increasing the lifetime of the buildings, decreasing the crack appearance and improve the housing quality, due to the decoupling of elements.



MATERIAL DESCRIPTION & PROPERTIES



MS-R1 - a Wall Bearing material - is part of the Amorim Cork Composites range and it represents an excellent solution for acoustical and vibration issues.

MS-R1 is manufactured from recycled rubber granulate and it has been developed to effectively interrupt the transmission of footstep noise vertically through the masonry. If wall bearings are used consistently throughout a building, and other sound transmission vectors are eliminated, this can significantly improve the quality of living conditions.

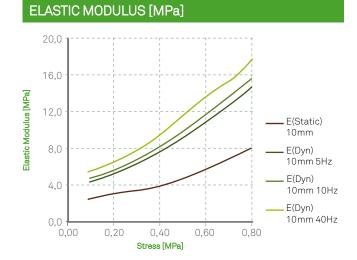
The product is suitable for acoustic insulation in loadbearing and non-load-bearing walls.

MAXIMUM LOAD

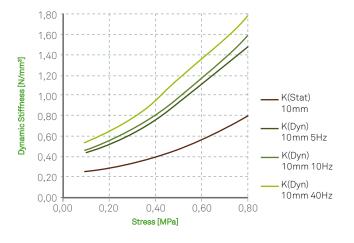
E-MODULE

PERMANENT STATIC

<0,80 MPa (116 psi)*



DYNAMIC STIFFNESS [N/mm³]



DYNAMIC⁽²⁾

- STATIC⁽¹⁾
- 3,00-8,00 MPa (435 1160 psi) 5,50-18,0 MPa (798 - 2610 psi)

(1) DIN 53513 (ADAPTED) - TANGENTIAL MODULUS (2) DIN 53513 (ADAPTED) - DEPENDING ON LOAD AND FREQUENCY * AT 25% COMPRESSION

Compression Set (%) (1)	4,3
Tensile Strength (MPa) ⁽²⁾	> 0,5 (73 psi)
Elongation at break (%) (2)	> 75
Tear- Resistance (N/mm) ⁽³⁾	> 5,6
Flammability ⁽⁴⁾	*B2

(1) DIN 53572 - MEASURED 30MIN AFTER DECOMPRESSION WITH 50% DEFORMATION / 23°C AFTER 72H (2) DIN 53571

(3) DIN 53515

(4) DIN 4102 * B2 = NORMAL FLAMMABLE

ADVANTAGES

- High resistance to compression
- Low dynamic stiffness
- Resistance to contact with liquids
- Sustainable and recyclable





WALL BEARING



ACOUSTICAL RESULTS

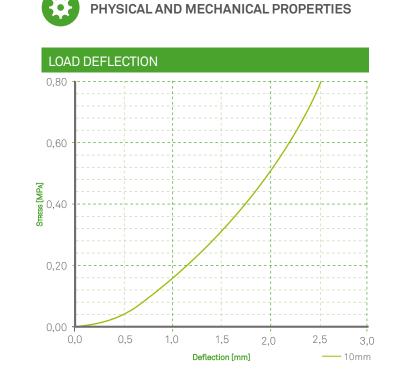
Wall type	ΔR_{w}
Single Wall (60kg/m²)	2 dB
Double Wall (95kg/m²)	8 dB

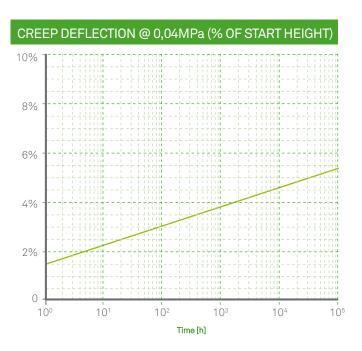


STANDARD DIMENSIONS

S	Standard Dimensions*
	10m x 5cm x 10mm
	10m x 10cm x 10mm
	10m x 15cm x 10mm
	10m x 20cm x 10mm

* Other dimensions available



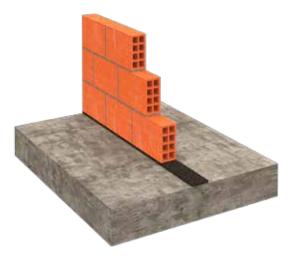




Before the MS-R1 wall bearing is installed, check the floor for surface irregularities. If it is uneven (with projections, surface roughness or similar), apply a smooth mortar layer;

After the surface layer has been allowed to dry, lay the wall bearing. Make sure that it projects by approx. 15mm on the side on which the wall is to be plastered;

Sections of wall bearing are butt-jointed together, and the joint secured with adhesive tape for concrete.





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