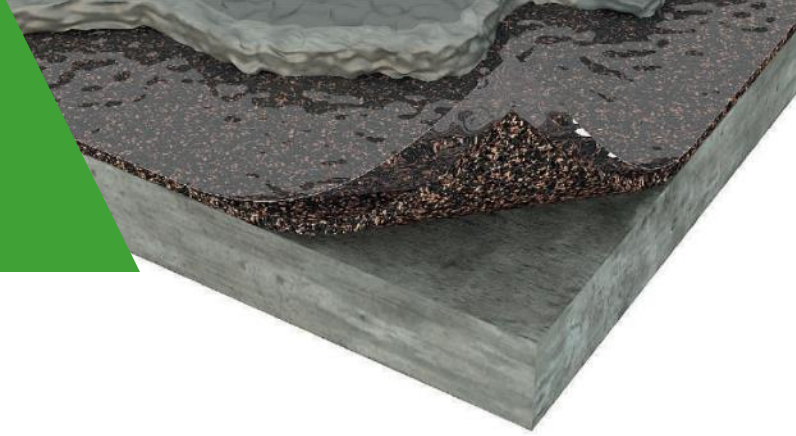




ACOUSTICORK U85

MATERIAL DATASHEET

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FLOATING SCREED

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

PRODUCT DESCRIPTION

Agglomerated cork with recycled polyurethane resilient layer for 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)	Tensile Strength (2)	Compressibility at 0,7MPa (3)	Recovery after 0,7MPa (3)
230 - 300Kg/m ³	27 MN/m ³	>100 KPa	>70%

""ASTM F1315 • ""ISO 9052-1 & ISO 7626-5 • ""ASTM F152 • ""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
8/4	25	52
10/5	27	52

""ISO 10140-3 and ISO 717-2 • ""ASTM E492-09 & ASTM E989-06

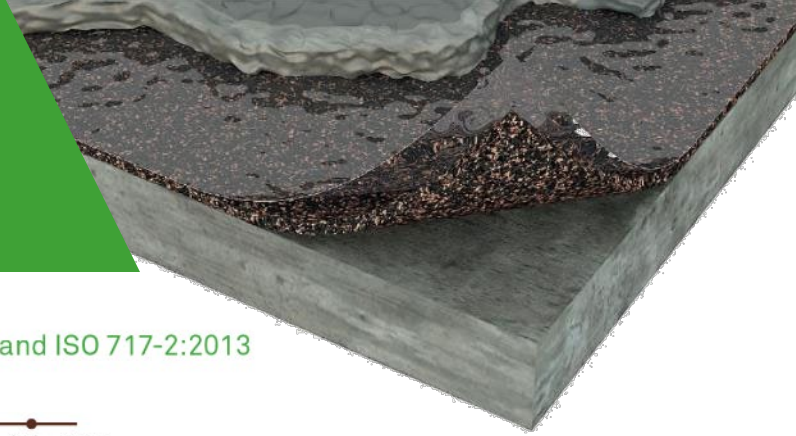


STANDARD DIMENSIONS

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

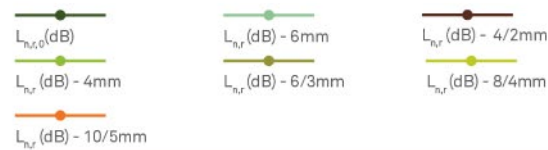
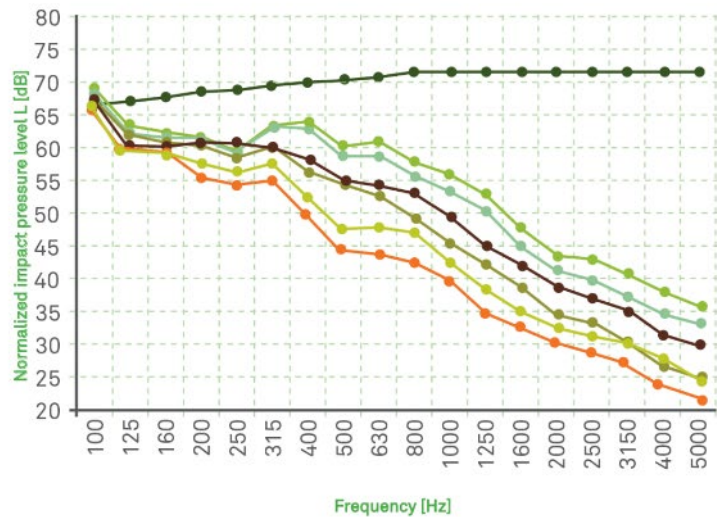
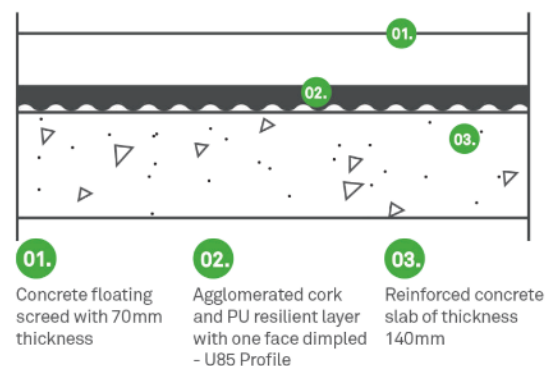
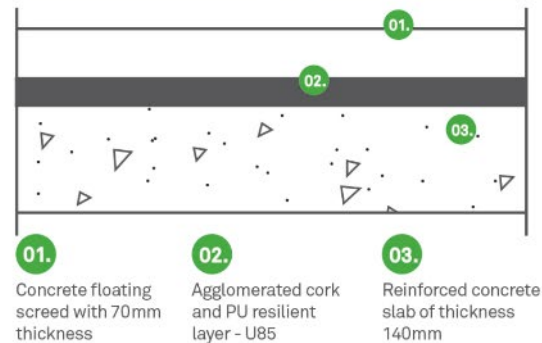
Others sizes available upon request





ACOUSTICAL RESULTS

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

TEST APPARATUS (ΔL_w & IIC)

$L_{n,r}$ - Normalized impact sound pressure level of the reference floor with the floor covering under test;
 $L_{n,r,0}$ - Normalized impact sound pressure level of the Lab reference floor;
 ΔL_w - Impact sound pressure level reduction index of the covering under test, on a normalized floor;

Ref. Test Report	Thickness	$L_{n,r,w}$ ($C_{l,r}$)	ΔL_w ($C_{l,\Delta}$)
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
ACL122/15	8/4 mm	53 (2) dB	25(-13) dB
ACL121/15	10/5 mm	51 (3) dB	27(-14) dB

U85

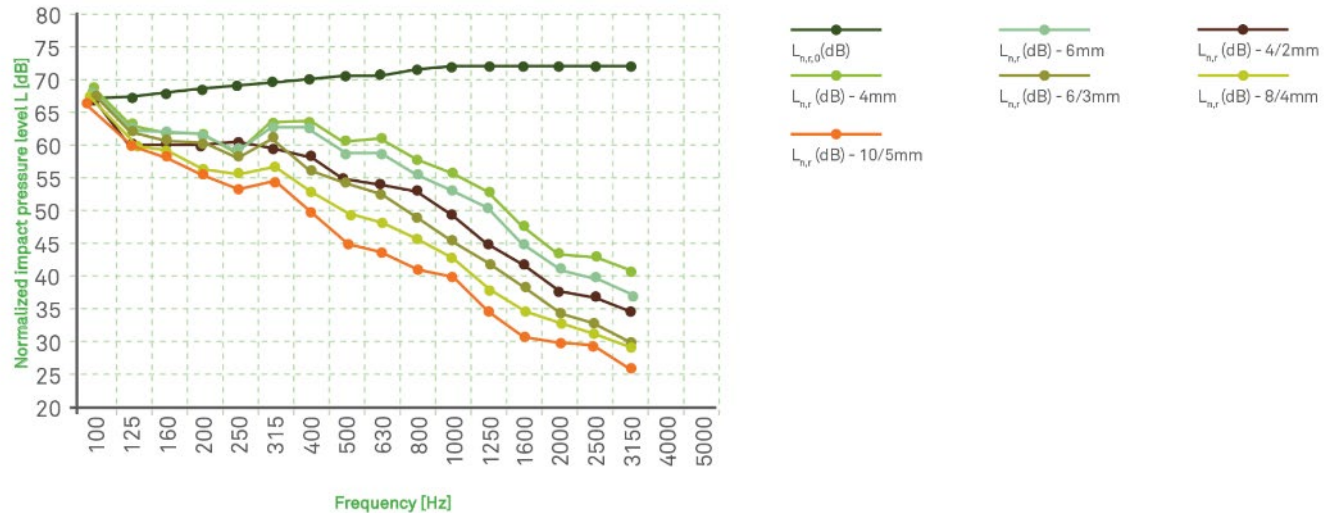
Material Data Sheet

ACOUSTICORK



ACOUSTICAL RESULTS

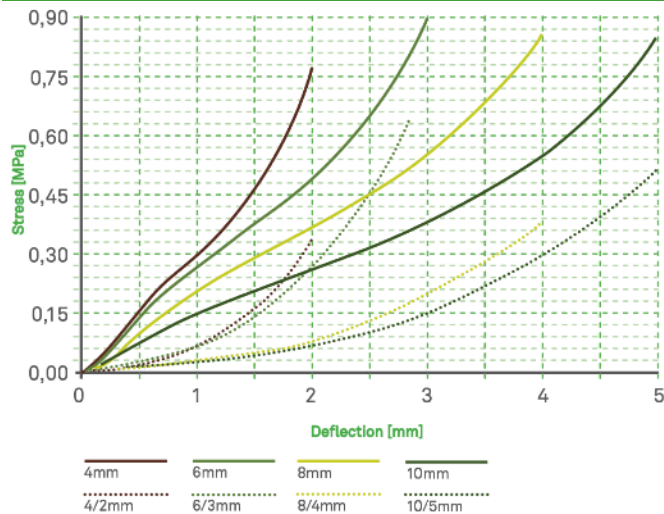
Test procedure according to ISO 10140-1:2010; ISO 1040-3:2010 and ISO 10140-4:2010 standards. Normalized impact sound pressure level and IIC rating determined according ASTM E492-09 and ASTM E989-06 standards.



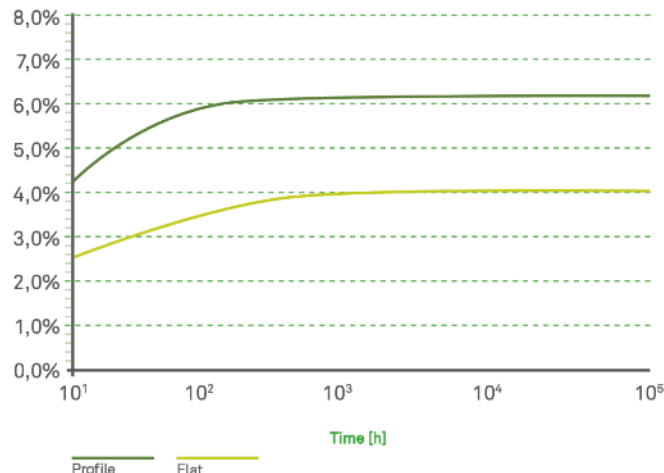
$L_{n,r}$ - Normalized impact sound pressure level of the reference floor with the floor covering under test;
 $L_{n,r,c}$ - Normalized impact sound pressure level of the Lab reference floor;

Thickness	IIC _c
4 mm	51 dB
4/2 mm	52 dB
6 mm	51 dB
6/3 mm	52 dB
8/4 mm	52 dB
10/5 mm	52 dB

LOAD DEFLECTION



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



Note: Following ISO8013-1998 measured in Cantilever Test System

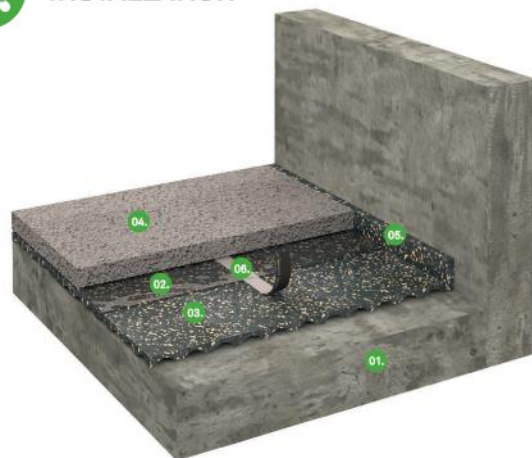
DYNAMIC STIFFNESS

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

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



INSTALLATION



1

Reinforced
concrete slab

2

Vapor
Barrier

3

Agglomerated cork and
PU resilient layer with one
face dimpled U 85 Profile

4

Concrete floating
screed

5

Perimeter
insulation barrier

6

Adhesive Tape

7

Agglomerated
cork and PU
resilient layer
– U 85

GENERAL INSTALLATION INSTRUCTION

The following installation instructions are recommended by Amorim Cork Composites, but are not intended as a definitive project specification. They are presented in an attempt to be used with recommended installation procedures of the flooring manufactures.

Rooms Conditions

Temperature > -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 the Acousticork U85 to desired 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. A waterproof membrane (ex. Polyethylen foil) minimum 0.2mm covering the entire flooring area MUST be installed prior to the screed. Install it, minimum 150 mm wide vertically and overlapping it, minimum 100 mm. 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 & 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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