

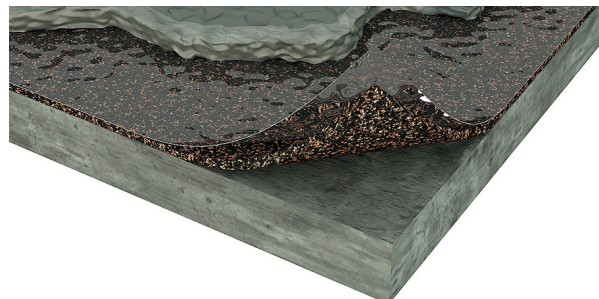


MATERIAL DESCRIPTION & PROPERTIES

$\Delta L_w = 19\text{dB}$

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 for impact noise insulation of floating screed.

Thermal Properties

Thermal Conductivity: 0,055 W/mK⁽¹⁾

⁽¹⁾ISO 8301

Physical and Mechanical Properties

Specific Weight ⁽¹⁾	Dynamic Stiffness ⁽²⁾	Tensile Strength ⁽³⁾	Recovery after 0,7MPa ⁽⁴⁾
230-300Kg/m ³	27MN/m ³	>100KPa	>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	51
4/2	23	52
6	20	51
6/3	23	52
8/4	25	52
10/5	27	52

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

Standard Dimensions

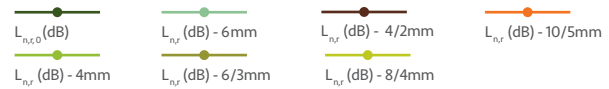
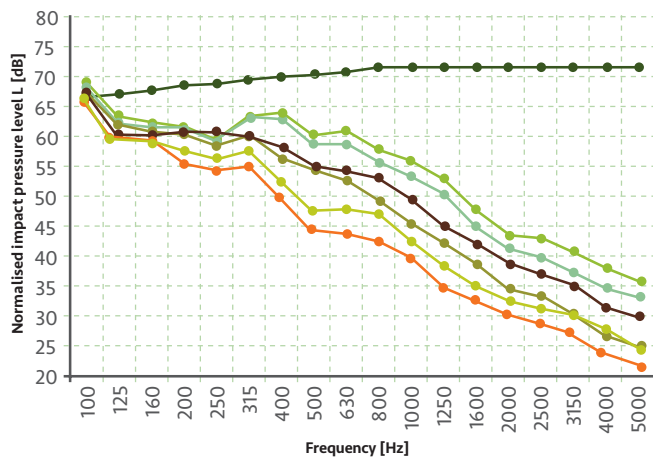
Thickness (mm)	4	4/2	6	6/3	8/4	10/15
Width (m) x Length (m)	1 x 15	1 x 30	1 x 10	1 x 20	1 x 15	1 x 10

Others sizes available upon request



Acoustical Result

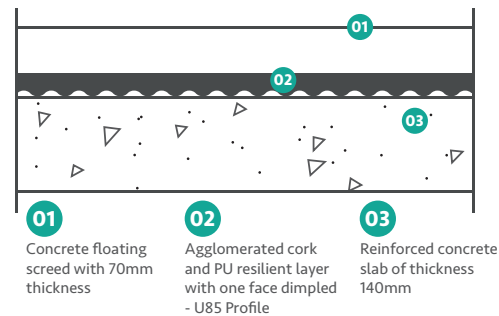
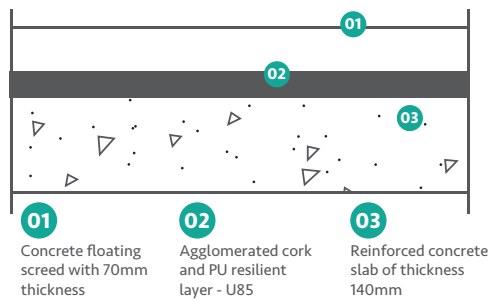
Test procedure according to ISO 10140-1:2010; ISO 10140-3:2010; ISO 10140-4:2010 and ISO 717-2:2013 standards.



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

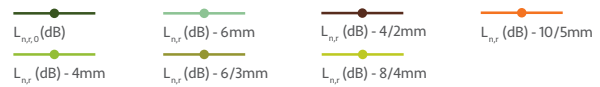
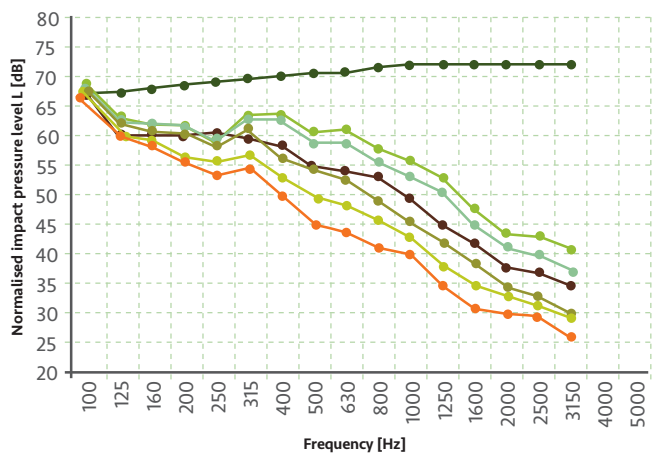
Ref. Test Report	Thickness	$L_{n,r,w}(C_{l,r})$	$\Delta L_w(C_{l,\Delta})$
ACL 219/14	4mm	59 (0) dB	19 (-11) dB
ACL 311/15	4/2mm	55 (1) dB	22 (-12) dB
ACL 220/14	6mm	58 (0) dB	20 (-11) dB
ACL 171/15	6/3mm	55 (1) dB	23 (-12) dB
ACL 122/15	8/4mm	53 (2) dB	25 (-13) dB
ACL 121/15	10/5mm	51 (3) dB	27 (-14) dB

TEST APPARATUS (ΔL_w & IIC)



Acoustical Result

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



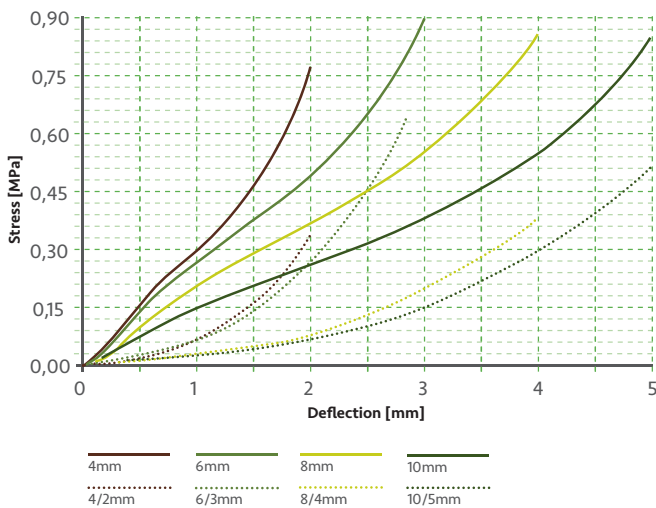
$L_{n,r}$ - Normalised impact sound pressure level of the reference floor with the floor covering under test;
 $L_{n,r,c}$ - Normalised impact sound pressure level of the Lab reference floor;

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

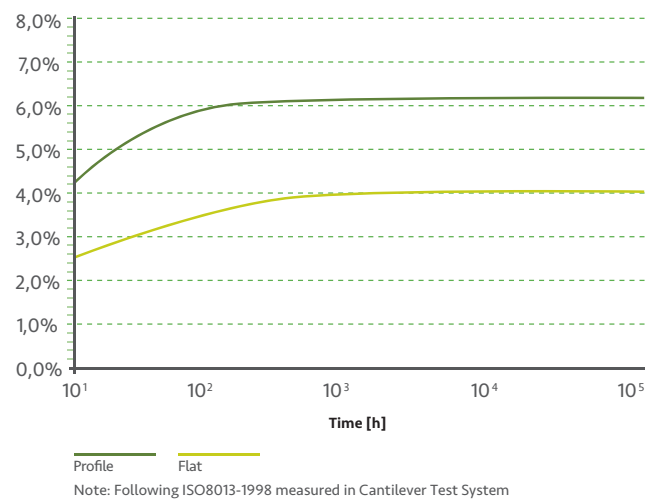


Physical and Mechanical Properties

LOAD DEFLECTION



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

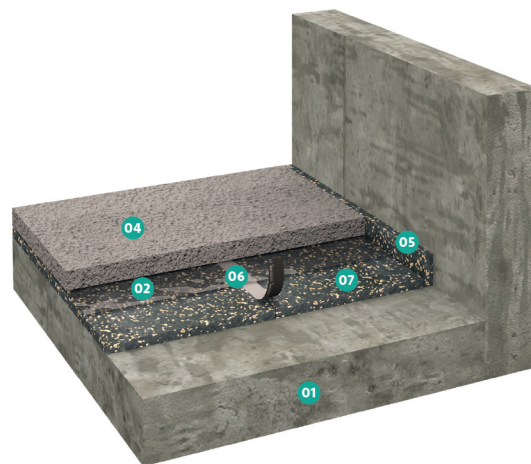
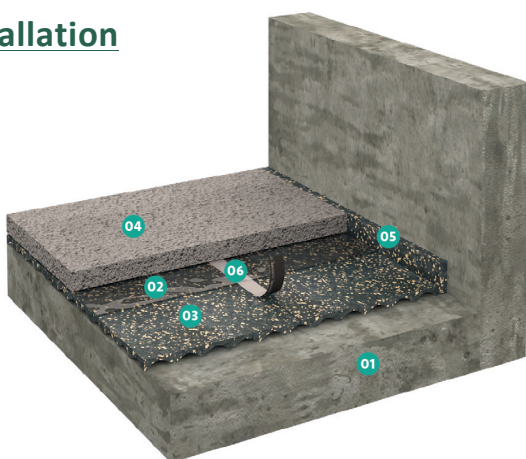


Dynamic Stiffness

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

Thickness (mm)	4	4/2	6	6/3	8	8/4	10	10/15
Dynamic Stiffness (MN/m ³)	85	52	82	50	72	32	60	27

Installation



- 01** Reinforced concrete slab
- 02** Vapor barrier
- 03** Agglomerated cork and PU resilient layer with one face dimpled - U85 Profile
- 04** Concrete floating screed
- 05** Perimeter insulation barrier
- 06** Adhesive tape
- 07** Agglomerated cork and PU resilient layer - U85



General Installation Instructions

The following installation instructions are recommended by Total Vibration Solutions, but are not intended as a definitive project specification. They are presented in an attempt to be used with recommended installation procedures of the flooring manufacturers 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 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. 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.

ACOUSTICORK U85

Product Data Sheet PDS 1.1 ACOUSTICORK U85

Revision: 1.2

Issued: 23/01/2018

The data provided in this Material Data Sheet represents typical values. This information is not intended to be used as a purchasing specification and does not imply suitability for use in a specific application. Failure to select the proper product may result in either equipment damage or personal injury. Please contact Total Vibration Solutions regarding specific application recommendations. Total Vibration Solutions expressly disclaims all warranties, including any implied warranties or merchantability or of fitness for a particular purpose. Total Vibration Solutions is not liable for any indirect special, incidental, consequential, or punitive damages as a result of using the information listed in this MDS. Any of its material specification sheets, its products or any future use or re-use of them by any person or entity.

