



ACOUSTICORK U34C

MATERIAL DATASHEET

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Material Description & Properties

Agglomerated recycled rubber mixed with cork and EVA foam resilient layer for impact noise insulation of floating screed

PRODUCT SPECIFICATION

- mm resilient acoustic under screed made of agglomerated recycled SBR (Stirene Butadiene Rubber) combined with EVA foam and Cork with PU (polyurethane) elastomer bonding agent for impact noise insulation of floating screeds, with a density of 600 kg/m³ and an impact noise reduction L_Nw of __dB

KEY FEATURES

- Impact noise reduction
- High load capacity with low deflection Long-term resilience
- Produced from recycled and natural materials

THERMAL PROPERTIES

Thermal Conductivity : 0,0963 W/mK - as per ISO 8301

PHYSICAL & MECHANICAL PROPERTIES

| | |
|---------------------------|------------------------|
| Specific Weight (1) | 600 Kg/ m ³ |
| Tensile Strength (2) | 100 KPa |
| Recovery after 0.7MPa (3) | > 80 % |
| Cp level (4) | <1 mm15J |

¹⁾ ASTM F1315 • ²⁾ ASTM F152 • ³⁾ ASTM F36 • ⁴⁾ ISO 902/ 19 •

¹⁴⁾ For both thicknesses 6/3 and 8/4 mm

STANDARD DIMENSION

| | | |
|--------------------|------|------|
| Thickness (mm) | 6/3 | 8/4 |
| Width x Length (M) | 1x15 | 1x15 |

Other sizes available upon request

FIRE CLASSIFICATION

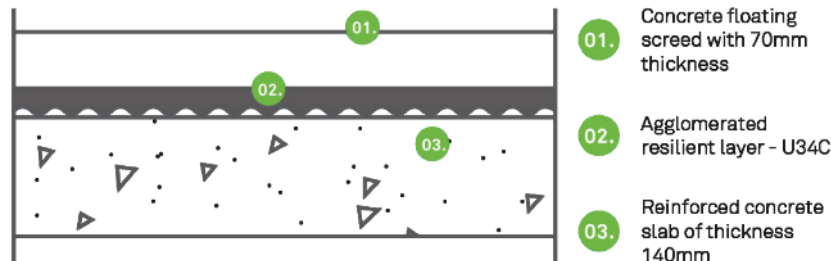
E/Efl as per EN 13501-1 and ISO11925

ACOUSTICAL RESULTS

| | | |
|----------------------------------|-----|-----|
| Thickness (mm) | 6/3 | 8/4 |
| ΔL_w (dB) ⁽¹⁾ | 24 | 26 |
| IIC (dB) | 50 | 50 |

⁽¹⁾ as per ISO 10140-3 and ISO 717-2

TEST APPARATUS (ΔL_w)



DYNAMIC STIFFNESS

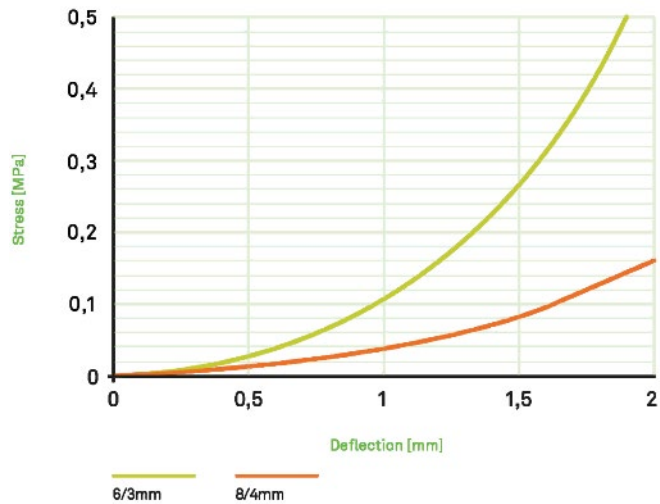
| | | |
|---|-----|-----|
| Thickness (mm) | 6/3 | 8/4 |
| Dynamic Stiffness(MN/m3) ⁽¹⁾ | 45 | 32 |

⁽¹⁾ as per ISO 9052-1:1989 ; ISO 7626-5 1994

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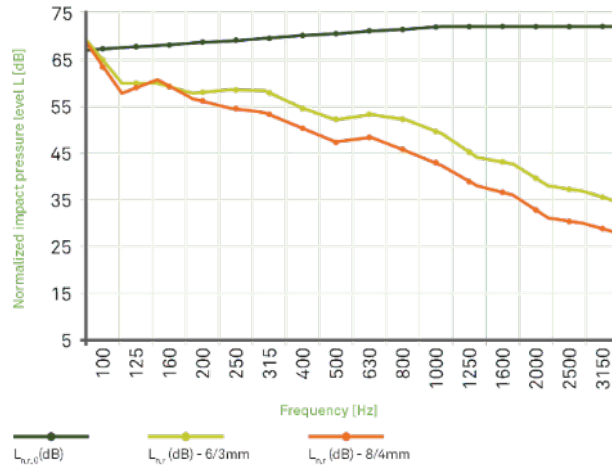


LOAD DEFLECTION



ACOUSTICAL RESULT

Test procedure as per ISO 10140-1:2016; ISO 10140-3:2010; ISO 10140-3:2010/ Amd.1:2015; ISO 10140-4:2010; ISO 717-2:2013



| | | |
|----------------------------------|-------------|-------------|
| Ref. Test Report | ACL379-19 | ACL 256/19 |
| Thickness (mm) | 6/3 | 8/4 |
| $L_{n,r,f}$ (C _f) | 54 (2) dB | 52(3) dB |
| ΔL_w (C _{f,L}) | 24 (-13) dB | 26 (-14) dB |

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



INSTALLATION



1

Reinforced
concrete slab

2

Agglomerated
recycled rubber
mixed with cork
and EVA foam
resilient layer for
impact noise
insulation of
floating screed –
U34C

3

Concrete floating
screed

4

Perimeter insulation
barrier

5

Adhesive Tape



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 manufacturers and screed.

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.



Mini-rolls of perimeter barrier
(PB U34C) available upon request.

Installation instruction for Acousticork U34C

Unpack the Acousticork U34C at least 24h before the installation and store it in the room where the installation will take place. Cut the Amorim U34C 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. Dimple side must face down.

Place the Acousticork U34C 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 U34C 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 150mm wide vertically and overlapping it, minimum 100mm. After completion, the insulation vapour barrier should cover the entire Acousticork U34C area without gaps. Never mechanically fasten the Acousticork U34C with screws, nails or staples as this will severely diminish the performance of the insulation barrier.

Screed & Final Flooring

Cast a suitable screed over U34C previously installed.

Always follow manufacturers recommended installation instructions.

For detailed installation instructions, please contact us.



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