

# U34C



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

### PRODUCT SPECIFICATION

"\_\_\_mm resilient acoustic underscreed 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/m<sup>3</sup> and an impact noise reduction  $\Delta L_w$  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 (W/mK) 0,0963 ①

① as per ISO 8301

### PHYSICAL AND MECHANICAL PROPERTIES

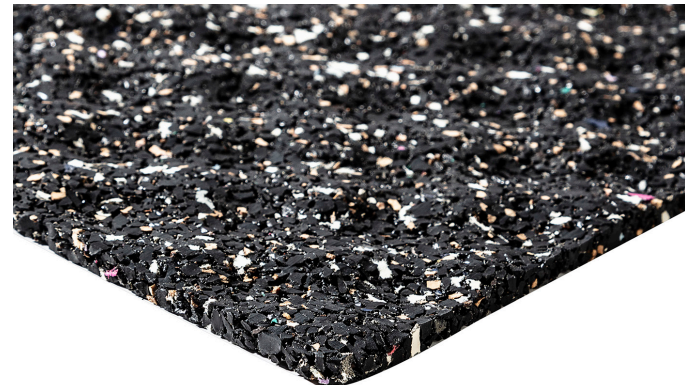
Specific Weight (Kg/m<sup>3</sup>) ① 600

Tensile Strength (KPa) ② 100

Recovery after 0.7MPa (%) ③ > 80

Cp level (mm) ④ <1 ⑤

① ASTM F1315 ② ASTM F152 ③ ASTM F36 ④ ISO 092/19  
⑤ For both thicknesses 6/3 and 8/4 mm



### ACOUSTICAL RESULTS

Thickness (mm)	6/3	8/4
$\Delta L_w$ (dB) ①	24	26
IIC (dB) ②	50	50

① as per ISO 10140-3 and ISO 717-2  
② ASTM E2179-03; ASTM E989-18

### STANDARD DIMENSIONS

Thickness (mm)	6/3	8/4
Width (m) x Length (m)	1x15	1x15

Others sizes available upon request

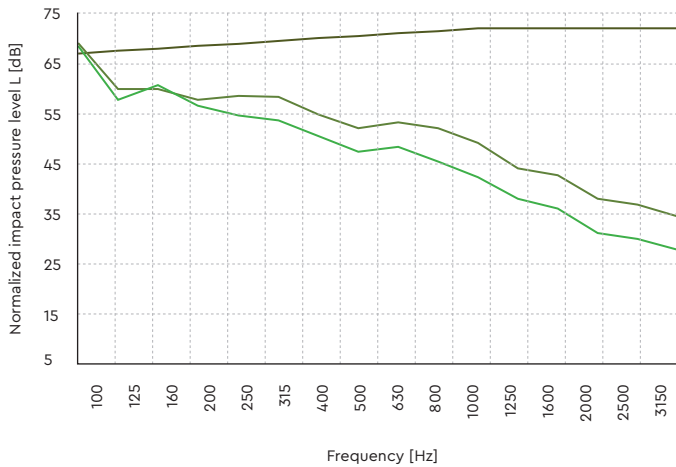
### FIRE CLASSIFICATION

E/Efl ①

① as per EN 13501-1 and ISO 11925

## ACOUSTICAL RESULTS

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



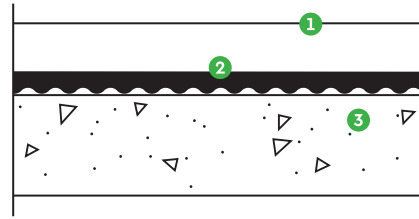
—  $L_{n,r,0}$  (dB) —  $L_{n,r}$  (dB) - 6/3mm —  $L_{n,r}$  (dB) - 8/4mm

$L_{n,r}$  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

Ref. Test Report	ACL379-19
Thickness (mm)	6/3
$L_{n,r,w}$ ( $C_{i,r}$ ) (dB)	54 (2)
$\Delta L_w$ ( $C_{i,\Delta}$ ) (dB)	24 (-13)
Ref. Test Report	ACL 256/19
Thickness (mm)	8/4
$L_{n,r,w}$ ( $C_{i,r}$ ) (dB)	52 (3)
$\Delta L_w$ ( $C_{i,\Delta}$ ) (dB)	26 (-14)

## TEST APPARATUS ( $\Delta L_w$ )



- 1 Concrete floating screed with 70mm thickness
- 2 Agglomerated resilient layer - U34C
- 3 Reinforced concrete slab of thickness 140mm

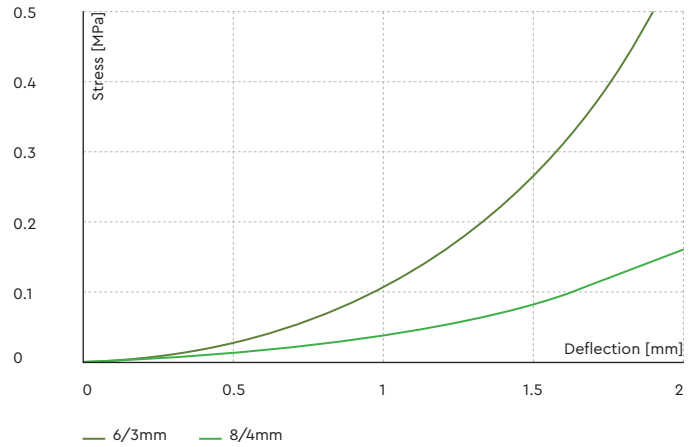
## DYNAMIC STIFFNESS

Thickness (mm)	6/3	8/4
Dynamic Stiffness ( $MN/m^3$ ) <sup>ⓐ</sup>	45	32

<sup>ⓐ</sup> as per ISO 9052-1:1989; ISO 7626-5:1994

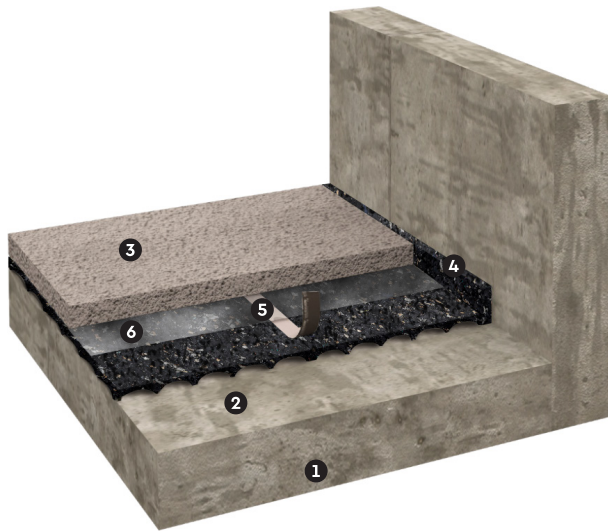
## PHYSICAL AND MECHANICAL PROPERTIES

### LOAD DEFLECTION



Note: Following ISO8013-1998 measured in Cantilever Test System

## 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
- 6 Foil

### PB U34C

Mini-rolls of perimeter barrier available upon request.



## 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 / Roommoisture 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 U34C

Unpack the Acousticork U34C at least 24h before the installation and store it in the room where the installation will take place. Cut and trim the Acousticork U34C to the desired size to fit the installation. Apply directly over the subfloor with the dimpled side down. Always ensure that material is installed to fit the application avoiding the creation of waves in the material. Dimple side of the product should 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. An waterproof membrane (ex.: Polyethylene foil) minimum 0,2 mm covering the entire flooring area MUST be installed prior to the screed. Install it, minimum 150 mm wide vertically and overlapping it, minimum 100mm. The vapour barrier should cover the entire Acousticork U34C 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 and Final Flooring

Cast a suitable screed over U34C previously installed.

Always follow manufacturers recommended installation instructions.

For detailed installation instructions, please contact us.

## MATERIAL DATA SHEET U34C

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. For contractual purposes, please request our Product Specifications Sheet (PDA).