

## Material Description & Properties

**ALUCORK** is a multilayer panel consisting of a CORECORK core with aluminum skins.

The key features to **ALUCORK's** successful acoustic and vibration damping isolation as well as thermal insulation is its composite cork core.

Its fabrication incorporates fewer new materials using less embodied processing energy and is 100% recyclable, decreasing overall CO<sub>2</sub> emissions, making it a truly sustainable and energy efficient solution.



**ALUCORK** used as a modular floor panel is compliant with Rail Standards NF F-16-101 (M1 F1), EN 45545-2 (HL3) and ASTM E-162/ASTM E-648.

### Key Features

- 20% to 25% less in weight
- Enables shorter floor assembly cycles
- Improve acoustic and thermal insulation

### Fire Resistance



### Acoustic isolation



### Thermal isolation



### Lightweight



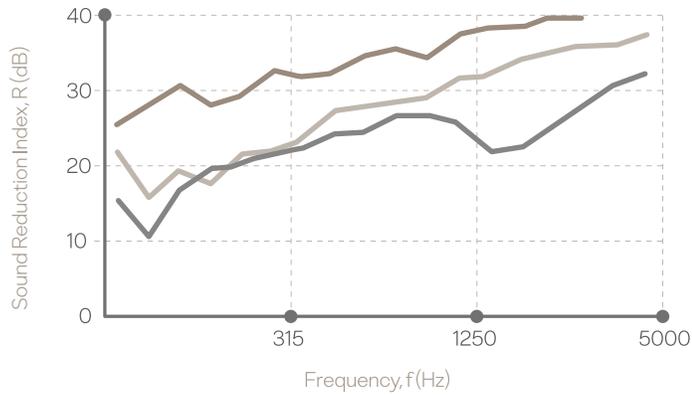
### Sustainable and energy efficient



### Alucork Range

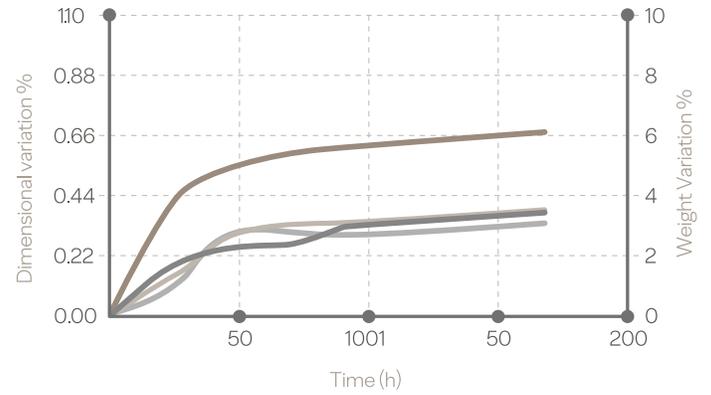
Grade	2030	2034	3036
PANEL THICKNESS (mm)	20	20	30
DAMPING LOSS FACTOR	0,10	0,14	0,11
WEIGHT (floor panel w/o profiles) (Kg/m <sup>2</sup> )	8,6	12,1	9,9
LOAD	Max. 650kg/m <sup>2</sup> distributed load		
DEFLECTION (mm)	1,1 (@500 kg/m <sup>2</sup> 510mm span)	1,4 (@450 kg/m <sup>2</sup> 450mm span)	0,35 (@500 kg/m <sup>2</sup> 510mm span)
SOUND TRANSMISSION LOSS (dB)	30	34	36

## Airborne Sound Insulation - EN ISO 140-3: 2005



- Alucork 30mm, Rw=36dB
- Alucork 20mm, Rw=29dB
- Plywood Okoumé 15mm, Rw=24dB

## Influence of Water Absorption



- Weight
- Thickness
- Width
- Length

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 sealing product may result in either product damage or personal injury. Please contact Amorim Cork Composites regarding recommendations for specific applications. 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 material data sheet, any of its brochures, 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).

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