U34

Material
data sheet

AMORIM
CORK COMPOSITES

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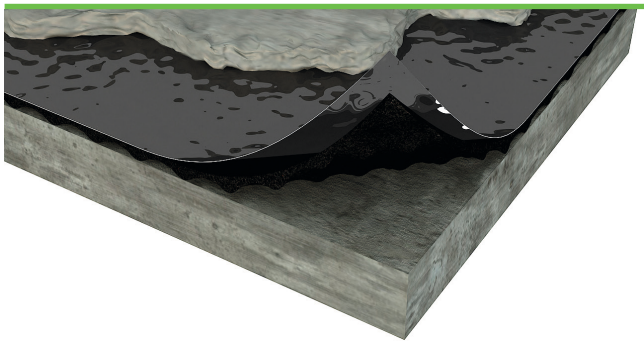


FLOATING SCREED

Impact Noise Reduction and Thermal Insulation Properties
Very Easy to Handle and Long Term Resilience
100% Post Consumer Recycled Materials
Very Flexible

PRODUCT DESCRIPTION

Agglomerated recycled rubber resilient layer for impact noise insulation of floating screed.

THERMAL PROPERTIES

Thermal Insulation: R-Value 10.92 per Inch

PHYSICAL AND MECHANICAL PROPERTIES

Density [1]	Dynamic Stiffness [2]	Tensile Strength [3]	Recovery after 0.7MPa [4]
34 lb/ft3	8 (MN/m³)	> 36 psi	> 80%

[1] ASTM F1315 • [2] ISO 9052-1 & ISO 7626-5 • [3] ASTM F152 • [4] ASTM F36

PACKAGING

Thickness	6/3	8/4	17/8
Width x Length	(Rolls) 39.37" x 39.37'	(Rolls) 39.37" x 39.37'	(Rolls) 39.37" x 35.43'

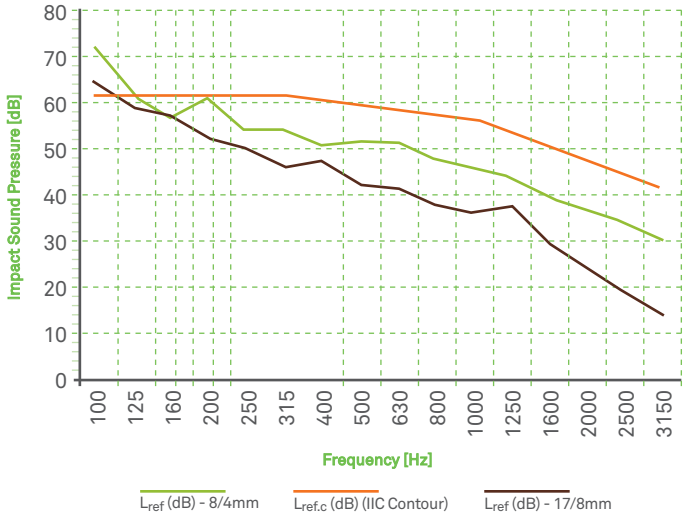
FSC www.fsc.org FSC® C022338

PEFC PEFC/13-32-014 Promoting Sustainable Forest Management www.pefc.org

CERTIFICAÇÃO apcer ISO 9001 ISO 14001 OHSAS 18001 IQNet CERTIFIED MANAGEMENT SYSTEM

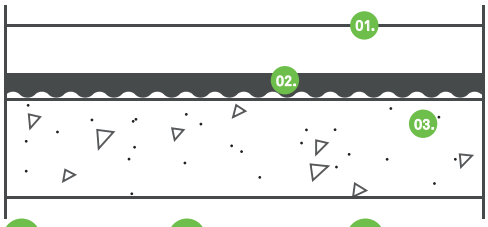
ACOUSTICAL RESULTS

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_{ref} - Normalized impact sound pressure level of the reference floor with the floor covering under test;
$L_{ref.c}$ - Normalized impact sound pressure level of the Lab reference floor;

TEST APPARATUS (IIC & STC)



01. Concrete floating screed with 70mm thickness

02. Agglomerated recycled rubber resilient layer with one face dimpled - U34

03. Reinforced concrete slab of thickness 140mm

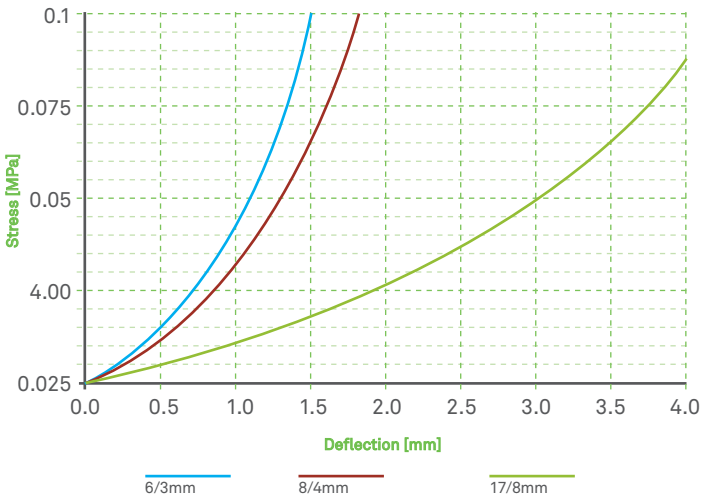
ACOUSTICAL RESULTS

	Subfloor	Product Thickness (mm)	Suspended Ceiling	Overlay	Floor Covering	Sound Ratings IIC	STC
Concrete Floor Systems	5" Slab	6 Wave	No	2-3/4" Concrete Topping	NA	**	**
		8 Wave				48*	-
		17 Wave				55*	-

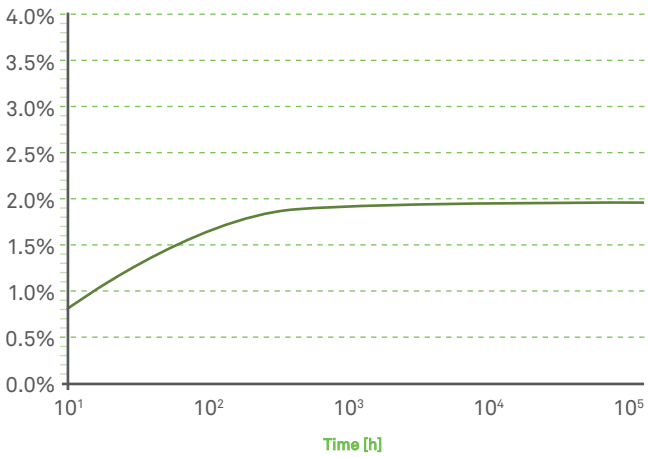
* Test procedure according to ISO 10140-1:2010; ISO 1040-3;2010 and ISO 10140-4:2010 standards. Normalized impact sound pressure level and IIC rating determined according ASTM E492-09 and ASTM E989-06 standards.
** Test being performed

PHYSICAL AND MECHANICAL PROPERTIES

LOAD DEFLECTION



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



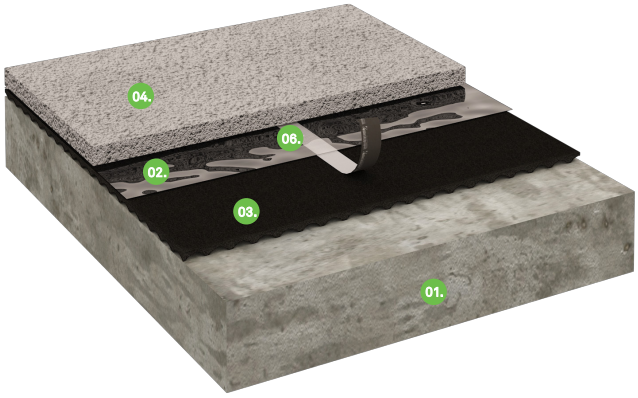
Note: Following ISO8013-1998 measured in Cantilever Test System

DYNAMIC STIFFNESS

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

Thickness	6/3mm	8/4mm	17/8mm
Dynamic Stiffness (MN/m³)	21	16	8

INSTALLATION



01. Reinforced concrete slab

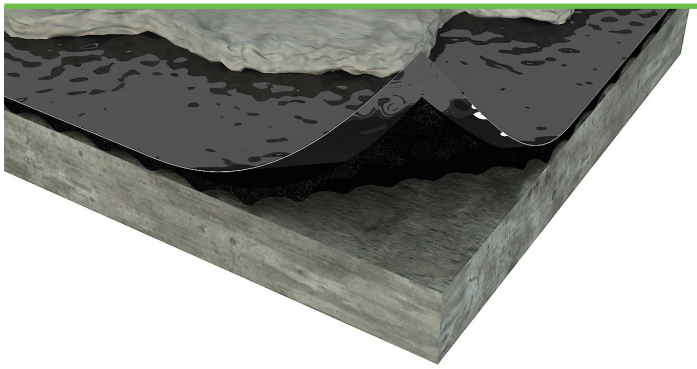
02. Vapor barrier

03. Agglomerated recycled rubber resilient layer with one face dimpled - U34

04. Floating screed

05. Wood Joist System

06. Adhesive tape



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 > 40ºF / Room moisture content < 75%.

Subfloor

All subfloor work should be structurally sound, clear and level. The moisture content of the concrete subfloor should not be more than 3 to 5 lbs. per 1000 s/f in 24 hours as per calcium chloride testing.

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 U34

Unpack the U34 at least 24h before the installation and store it in the room where the installation will take place. Cut and trim the U34 to the desined 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 U34 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 U34 should cover the entire flooring area without gaps and with joints securely taped. An waterproof membrane (ex. Polyethylene film) covering the entire flooring area MUST be installed prior to the screed. Install it, minimum 6 inches wide vertically and overlapping it, minimum 4 inches. After completion, the insulation vapour barrier should cover the entire U34 area without gaps. Never mechanically fasten the U34 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 film previously installed over the product.

Always follow manufacturers recommended installation instructions.

For detailed installation instructions, please contact us.

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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.
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Construction

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