iac acoustics
making the world a quiter place

ACOUSTICORK
PRO80

MATERIAL DATASHEET

iac-acoustics-thailand.com

PRO80 \ ACOUSTICORK

Material Data Sheet

Material Description & Properties

Agglomerated cork and recycled EVA and PU foams underlay for impact noise and thermal insulation.

KEY FEATURES

- Excellent acoustic insulation.
- Good load absorption capacity.
- The most versatile underlay with high durability and good performance.
- High durability and long term resilience.
- Contains no SBR rubber.
- Anti-slip underlay.

Tested according to MMFA/EPLF minimum requirements group 1 and 2.

STANDARD DIMENSIONS

Thickness (mm)	2
Width and Lenght (m)	1 X 15

TEST	LIMIT	UNIT	RESULT
Density	-	kg/ m^3	2: 250
Punctual Conformability (PC)	≥0.5	mm	≥ 1.3
Compression Strenght (CS)	≥200	kPa	320
Compression Creep (CC) Impact	≥10	kPa	50
Sound (IS)	≥10	dB	20
Thermal Resistance (R)*	≥0.15	m''C/W	0.031
Dynamic Load (DL)	≥10000	cycles	≥10000

* Suitable for underfloor heating and cooling.

PHYSICAL AND MECHANICAL PROPERTIES

Specific Weight 1[1]	>250 Kg/m'
Tensile Strength 1[1]Compress ion	≥250 kPa
at 0.7MPa1[1]	15-40%
Recovery after 0.7MPa1[1]	≥60%

1[1]Is o 7322

THERMAL PROPERTIES

Thermal Conductivity	0.0637 W/m°C 1[1]
Thermal Resistance	0.0314 m'"C/W 1[1]

11Ilso 0301

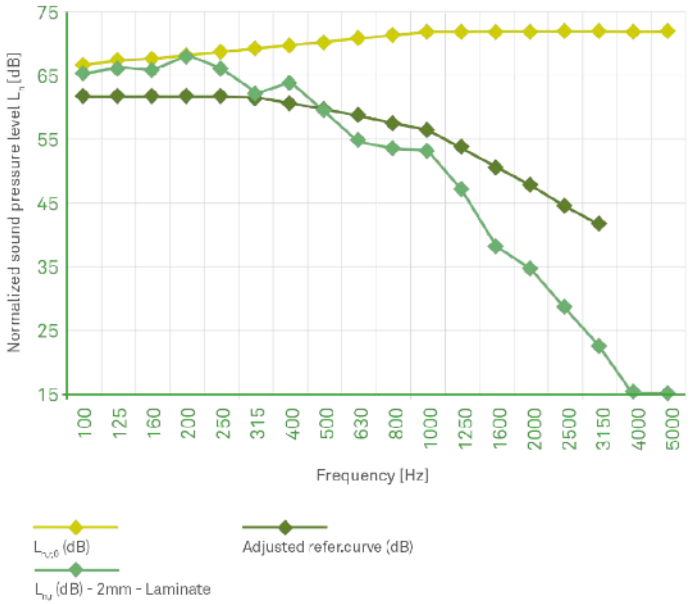
PRO80 \ ACOUSTICORK

Material Data Sheet

ACOUSTICAL RESULT

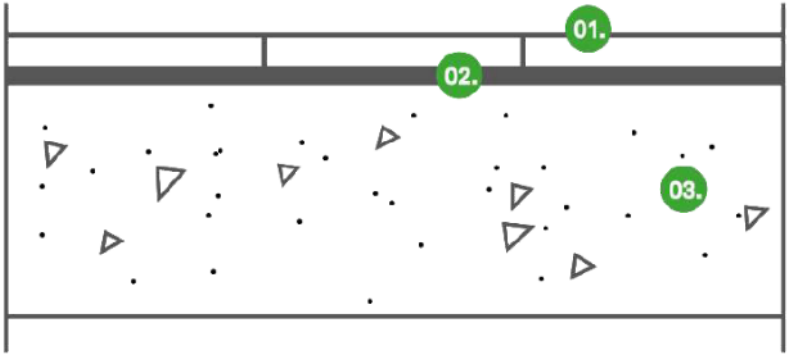
Test procedure according to ISO 10140-1 :2010; ISO 10140-3:2010; ISO 10140-4:2010 and ISO 717-2:2013 standards

Thickness (mm)	2
Flooring	Laminate
	20 dB



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

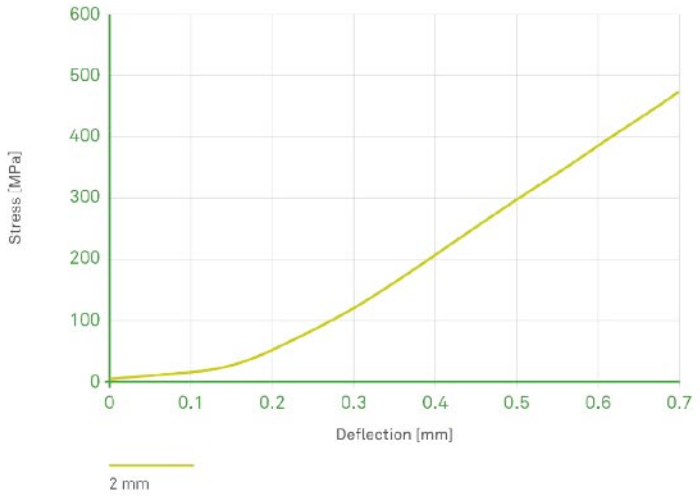
TEST APPARATUS



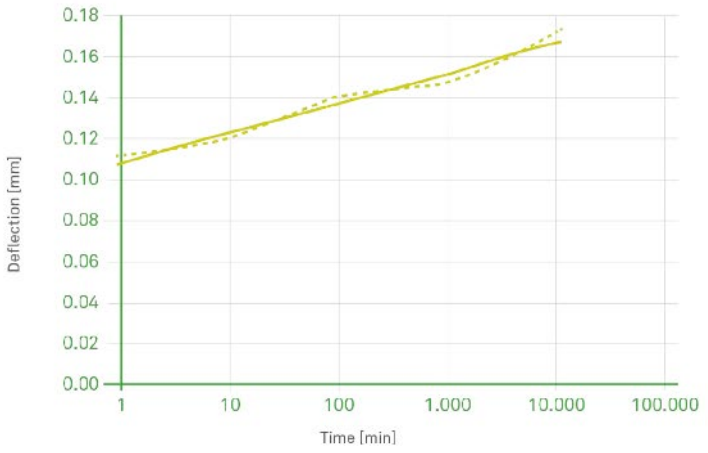
1. Floor covering composed by Laminate floor
2. Agglomerated cork resilient layer- PRO80
3. Reinforced concrete slab of thickness 140 mm

PHYSICAL & MECHANICAL PROPERTIES

COMPRESIVE STRENGTH



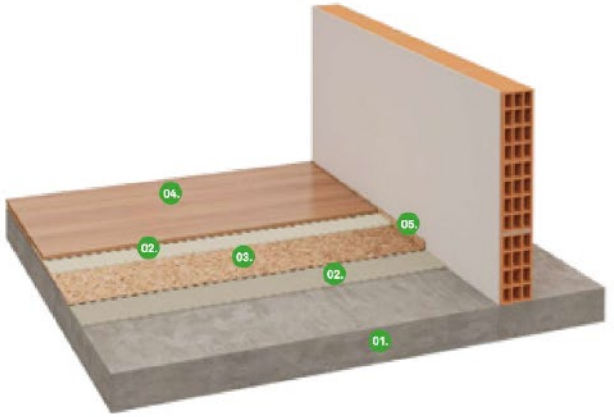
CREEP DEFLECTION @ 50 kPa (% OF START HEIGHT)



Note: Following ISO8013-1998 measured in Cantilever Test System

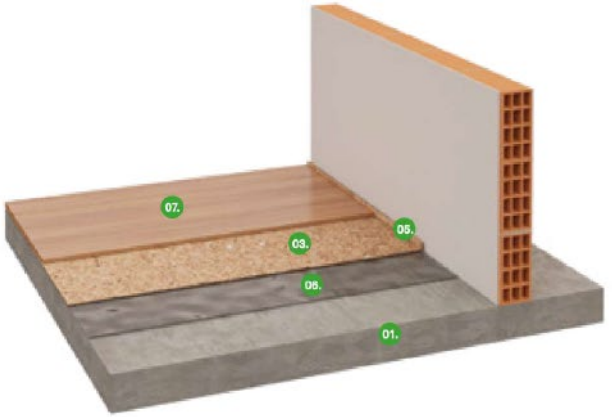
INSTALLATION

GLUED FLOORS



1. Reinforced concrete slab
2. Adhesive
3. Agglomerated cork resilient layer - PROBO
4. Floor covering composed by glued down Wood Floor
5. Perimeter insulation barrier
6. Vapor barrier

NON GLUED FLOORS



7. Floor covering composed by non glued laminate floor

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 manufactures.

Rooms Conditions
Temperature > 10°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.

Vapor Insulation Barrier (only for Non Glued Floors)
PE (Polyethylene) vapor insulation barrier covering the entire flooring area, minimum 50 mm wide vertically around the perimeter of the entire floor MUST be installed prior to the Amorim PRO 80.

Install by overlapping (minimum 100 mm) the PE foil, and use an adequate tape to adhere/fix it, if necessary. After completion, PE foil should cover the entire concrete area without gaps. Never mechanically fasten the PE foil barrier with screws, nails or staples as this will severely diminish the performance of the insulation barrier.

Installation instruction for Amorim PRO 80
Unpack the Amorim PRO 80 at least 24h before the installation and store it in the room where the installation will take place. Cut the Amorim PR)80 to desired length and install directly over the entire floor pulled 30 mm up the walls with crown of the rolled materials up, removing all trapped air.

An independent perimeter insulation barrier can be installed around the entire perimeter of the room with width equal to that of the floor build up.

Both solutions are valid, the most important is 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.

After completion, the Amorim PRO 80 should cover the entire flooring area without gaps and with joints butted tight and preferably taped.

Final Flooring
Always follow manufacturers recommended installation instructions.

Recommended Adhesives:
Wood floor to Amorim PRO 80: Water-Based Emulsion/Polyurethane Glue; Vinyl and linoleum to Amorim PRO 80: Water- Based Emulsion/ Synthetic Resin Glue; Ceramcis to Amorim PRO 80: Flexible Cement Glue; Amorim PRO 80 to slab/screed: Water-Based Emulsion/Acrylic Adhesives;

Application Process

NON GLUED FLOORS

1. Vapor insulation barrier application; **2.** Perimeter barrier application; **3.** Underlay application; **4.** Tape application in joints between rolls; **5.** Final floor application; **6.** Perimeter insulation barrier cut.

GLUED FLOORS

1. Perimeter barrier application; **2.** Underlay application (glued); **3.** Final floor application (glued); **4.** Perimeter insulation barrier cut.

Important Notes
Never mechanically fasten the Amorim PRO 80 to the flooring floor as this will severaly diminish its acoustical value.

For detailed installation instructions, please contact us.

IAC Acoustics Thailand Co., Ltd.
6/54-56, Thanon Poemsin Soi 42,
Ongern - Sai Mai Bangkok 10220 Thailand
Ph: (+66) 02-1012827 | Email: info@iac-acoustics-thailand.com

iac-acoustics-thailand.com

IAC has worldwide offices and manufacturing plants in the UK, Australia, Canada, China, Malaysia, Indonesia, Thailand, Philippines Denmark, France, Germany, Italy, Spain, UAE - Dubai, USA Houston, USA Lincoln, USA - New York.