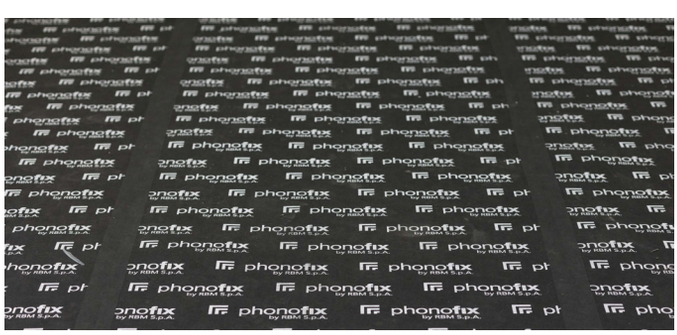

Rev. 06/2024

PHONOFIX
4120 series

Stabilising layer for parquet

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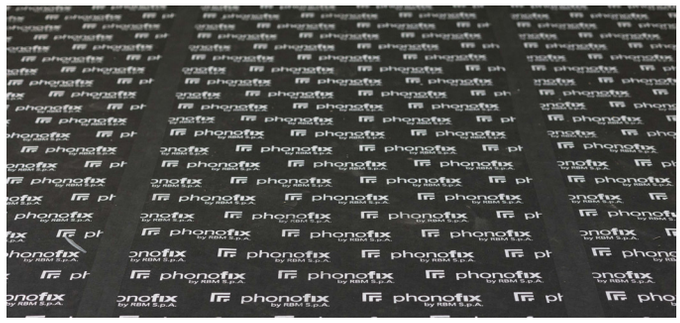
PHONOFIX

Stabilising layer for parquet.



Easy to lay

Thickness 2 mm

Can be used in all environments

Does not require the use of special adhesives

Contains no volatile substances (VOC A+)

Production with low environmental impact

Contributes to achieving credits for the environmental certification of a building according to LEED or ITACA protocols

Can be recycled and disposed of according to EWC No. 170604

Complies with the requirements defined by the CAM-Building for acoustic and thermal insulation materials regarding the demand for high acoustic insulation performance, the percentage of recycled material and the absence of hazardous substances

PRODUCTION RANGE

Product	Code	Description
	**4120.00.00**	Desolidarising and stabilising layer designed for under-floor applications for parquet finishes

DESCRIPTION

PHONOFIX by RBM is a technological and innovative product specifically for the application of glued parquet in combination with the **KILMA FUTURA system.**

WHAT IT IS

PHONOFIX is a low-thickness, desolidarising and reinforcing elasto-dynamic resilient acoustic layer designed for the application of parquet glued with the **KILMA FUTURA** system. Nominal thickness 2 mm.

FIELDS OF APPLICATION)

- Application under parquet directly on radiant system

KILMA FUTURA low thickness/low inertia.

ADVANTAGES

- It provides a significant increase in impact sound insulation in both renovations and new constructions;
- Can be used in all environments, both residential and tertiary;
- Low thickness, does not require changes to existing dimensions;
- Low thermal resistance (compatible with underfloor heating systems even when laid under the floor);
- Enables glue-in installation of parquet directly onto Kilma Futura with low thickness/low inertia.

APPLICATION ADVANTAGES

- Easy to lay;
- Product supplied with accessories for correct installation;
- It does not require the use of special adhesives;
- Allows the laying of glued parquet (*) on the **KILMA FUTURA** system.

(*) only permitted parquet types : Prefinished two-layer or three-layer parquet suitable for glued laying.

PLEASE NOTE:

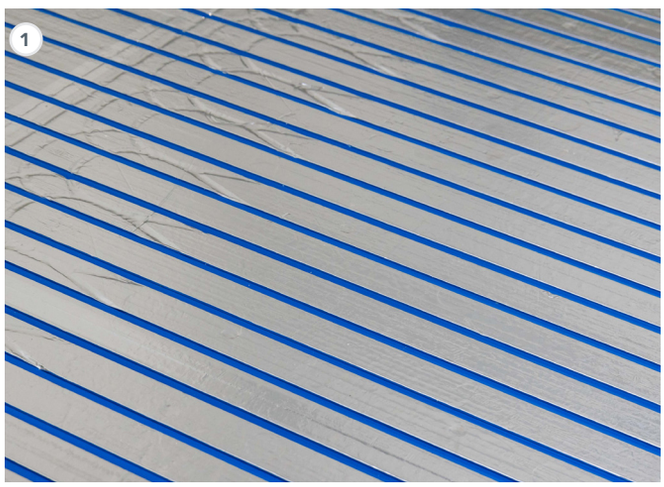
Laying solid parquet or parquet to be sanded in place is not permitted

TECHNICAL FEATURES

Nominal thickness	2 mm
Impact sound insulation in underfloor application	ΔL_w = 23 dB (1)
Compressive strength (CS)	127 kPa (0.5 mm strain)
Compressive strength (%)	Strain 10% at 96 kPa Strain 25% at 127 kPa Strain 40% at 229 kPa Strain 50% at 313 kPa
Compressive Creep (CC)	> 50 kPa (0.5 mm strain)
Dynamic load resistance (DL)	200,000 cycles (at 75 kPa)
Conformability (PC)	> 1,5 mm
Thermal conductivity	λ= 0,037 W/mK
Thermal resistance	R_t = 0,054 m^2K/W
Equivalent air thickness	S_d < 40 m
Emission of volatile organic substances	VOC A+ (2)
Reaction to fire class	C_{fl}-s1 (3)
CE Marking	For acoustic insulation products, harmonised standards for CE marking are currently not available. This means that Isolmant products are currently not subject to CE marking, nor to the drawing up of a DOP (Declaration of performance). Phonofix is placed on the market in compliance with the regulations in force in the country of destination and with the necessary certifications to guarantee its use in dedicated applications.
Format	Rolls from: 1,00 m x 20 m (h x L) = 20 m^2
Pack	Individual rolls including laying accessories: Joint strip: h 7.5 cm x L 20 m

(1) Isolmant laboratory test report n.n. 1136/2020
(2) Istituto Giordano Test Report No. 379083
(3) Istituto Giordano Test Report No. 362272

APPLICATION UNDER GLUED PARQUET



STEP 1

SUBSTRATE PREPARATION

The surface of the **KILMA FUTURA** system onto which **PHONOFIX** is to be applied must be load-bearing, flat, level, clean and free of debris or oil **(fig. 1)**. Check that the pipes are correctly recessed in the specific seats of the panel and that they do not protrude therefrom **(fig.2)**. However, it will be the responsibility of the installer to assess the suitability of the surface for laying the mat.

STEP 2

LAYING OF SHEETS

PHONOFIX is laid floating **(fig.3)** on the **KILMA FUTURA** system (*). Remove any air pockets below the **PHONOFIX** sheets to achieve perfect adhesion to the surface. In this regard, it is recommended to apply adequate pressure on the sheets, preferably by using a resilient roller **(fig.4)**. During laying, extreme care must be taken to place the **PHONOFIX** sheets next to each other without overlapping, so as to guarantee the continuity of the insulating layer and avoid the formation of acoustic bridges. It is also necessary to tape the joints between the sheets themselves with the joint strip included in the package. **(fig.5)**.

(*) Only in the event that the laying of the sheets is not easy, they can be bonded to the **KILMA FUTURA** system.

At the applicator's discretion, for easier laying of the mattress or at the specific request of the Client or the DL, in which case the only effect will be a perception of less "float" of the finished covering on site, it is possible to glue **PHONOFIX** to the **FUTURA panel** using epoxy-polyurethane or polyurethane "parquet" glues applied directly on the surface of the **FUTURA panel** before laying the mat. As an alternative, it is also possible to use class S2 cement adhesives, in this case following a primer cycle identical to the one already provided in this manual for the laying of ceramics on the **KILMA FUTURA system** itself.

In this case, the prescribed rolling operation of the mat will aim to ensure better adhesion of the mat to the surface of the panel and to avoid the presence of possible glue thickening that could lead to unevenness of the surface flatness of the substrate before gluing the parquet.

STEP 3

LAYING OF THE FLOOR

In the case of floating laying of the mat on the **KILMA FUTURA** system, the parquet laying operations can be carried out immediately, whereas when gluing the mats to the **KILMA FUTURA** panel, it will be necessary to wait for the times specified by the adhesive manufacturer before laying the flooring. The parquet (provided it is of a type compatible with the system) may be glued directly onto **PHONOFIX** by applying a suitable layer of adhesive (excellent results have been obtained with epoxy-polyurethane and polyurethane glues) laid according to the highest standards and following the manufacturer's instructions **(fig. 6)**. **PHONOFIX** is a water-proof covering: adequate drying times of the adhesive must be considered in relation to weather and site conditions.

STEP 4

SKIRTING BOARD LAYING

It is essential to make it known to all site operators that the excess of the perimeter strip should only be trimmed after the flooring has been laid and before the skirting board is laid **(fig. 7)**. The direct contact of the floor with the walls, in fact, constitutes an acoustic bridge, causing a loss of insulation of several decibels. The perimeter strip also has the task of absorbing thermal expansion of the flooring subject to temperature differences.

MORE ON APPLYING

GLUES

For the installation of wood flooring on phonofix, excellent results were obtained with epoxy-polyurethane and polyurethane.

JOINTS

During the laying of **PHONOFIX**, existing fractioning joints in the substrate (obviously absent in the case of **KILMA FUTURA**) may be avoided; instead, structural joints and expansion joints in the flooring must be respected for minimum surface units as per current regulations.

WARNINGS: Make sure you have consulted the complete document, together with the **KILMA FUTURA** system installation manual (latest version always available at **www.rbm.eu)**, before proceeding with the application of the product. The indications given within this document are the result of our best current experience. The user may, however, determine to the best of his or her knowledge whether his or her product is suitable for the intended use, assuming all liability arising from the use of the product under conditions other than those stated here.

The sound insulation values given in this data sheet are the result of laboratory or on-site tests: they cannot be taken as a predictive value for every situation that may occur on site. Acoustic performance is closely linked to the specific conditions of each construction site.

CAUTION: do not expose the product to direct sunlight or weather.

SPECIFICATIONS

4120 SERIES

Low thickness elastodynamic resilient desolidarising and stabilising acoustic layer designed for application under parquet. Product made of high-density physically cross-linked polypropylene coated on the upper side with special fibtec XP1 (black technical polypropylene geotextile screen-printed and calendered) and on the lower side with special fibtec XP1B (black technical polypropylene geotextile) . Nominal thickness 2 mm, density 77 kg/m^3, thermal conductivity 0.037 W/mK.

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