



SYSTEMIC

line

ISOLMANT ISOLTILE AD

UNDERFLOOR INSULATION

A technological and innovative product specifically designed for underfloor acoustic insulation in hybrid installation systems. It is applied directly onto pre-existing floors or smooth, clean surfaces using an adhesive.

WHAT IS ISOLMANT ISOLTILE AD

Low-thickness elastodynamic resilient acoustic layer for desolidarisation and reinforcement, specifically designed for underfloor applications with ceramic, stone, or parquet flooring. The underside is coated with a positioning adhesive layer, specifically designed for installation over existing flooring. Install with the screen-printed side (featuring the Isolmant logo) facing upward. Thickness 2 mm.

COMPATIBLE FLOORING*

LAMINATE - (6 to 8 mm thick)	✗
LAMINATE - (Sp. 8 mm th.)	✗
LVT, SPC	✗
PREFINISHED PARQUET - 2 layers	✓
PREFINISHED PARQUET - 3 layers	✓
T&G SOLID WOOD FLOORING (thickness < 16 mm - plank width < 16 cm)	✓
CERAMICS	✓

* General indications valid for traditional installation supports only

AREAS OF APPLICATION

UNDERFLOOR APPLICATION

For use beneath ceramic, stone, or parquet flooring, applied directly over existing floors.



SUSTAINABLE



HEALTHY



All our products bearing the "Guaranteed Green Planet" label are certified and comply with the sustainability criteria of the major environmental protocols. They are also certified according to the highest Italian and international standards.



ISOLMANT ISOLTILE AD > TECHNICAL SPECIFICATIONS | 1

			VALORE	INFORMAZIONI AGGIUNTIVE	NORMA
		NOMINAL THICKNESS:	2 mm		EN 823
Acoustic		IMPACT SOUND INSULATION (IS):	$\Delta L_w = 16 \text{ dB}^{(1)}$	EPLF MMFA: superior performance	ISO 10140-3
Mechanic		COMPRESSIVE STRENGTH (CS):	127 kPa (0.5 mm deformation)	CS2 class	ISO 844
		COMPRESSIVE STRENGTH (%):	Deformation 10% at 96 kPa Deformation 25% at 127 kPa Deformation 40% at 229 kPa Deformation 50% at 313 kPa		ISO 844
		COMPRESSIVE CREEP (CC)	> 50 kPa (max carico con def. < 0,5 mm in 10 anni)	CC3 class EPLF: superior performance	EN 1606
		DYNAMIC LOAD (DL):	200.000 cycles (at 75 kPa)	DL2 class EPLF MMFA: superior performance	EN 13793
		CONFORMABILITY (PC):	> 1.5 mm	PC2	EN ISO 868
Thermo hygrometric		THERMAL RESISTANCE (RT):	$R_t = 0,054 \text{ m}^2\text{K/W}$	$R_{\lambda,B} \leq 0,10 \text{ m}^2\text{K/W}$ cooling $R_{\lambda,B} \leq 0,15 \text{ m}^2\text{K/W}$ heating	ISO 2581
		WATER VAPOUR RESISTANCE (SD):	$S_d < 40 \text{ m}$	method A @23°C from 0% to 50% relative humidity	EN 12086
		REACTION TO FIRE CLASS:	$C_{fl-s1}^{(2)}$		EN 13501-1
		EMISSION OF VOLATILE ORGANIC COMPOUNDS:	VOC A+ ⁽³⁾		ISO 16000-9

(1) Ri.Cert. test report no.11-3445-0 09

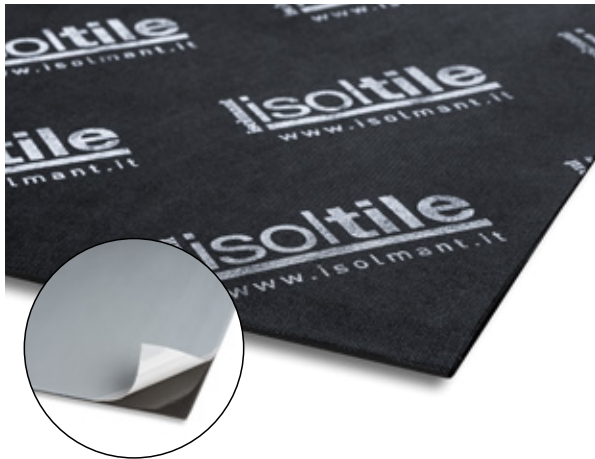
(2) Istituto Giordano test report no. 362272

(3) Istituto Giordano test report no. 379083

	CE MARKING:	Harmonised standards for CE marking are NOT currently available for acoustic insulation products. This means that Isolmant products are currently NOT subject to CE marking, nor to the drawing up of a PDO (declaration of performance) or DDP (declaration of performance). All Isolmant products are placed on the market in compliance with the regulations in force in the country of destination and with the necessary certifications to guarantee their use in dedicated applications.
	SIZE:	Rotoli da: 1,00 m x 20 m (h x L) = 20 m ²
	PACKAGE:	Individual rolls including installation kit: n. 1 Fascia per giunte : h 7.5 cm x L 20 m n. 2 Fasce perimetrali: h 3 cm x L 10 m

ITEM SPECIFICATIONS

Low thickness resilient elastodynamic acoustic layer, desolidarising and reinforcing, designed for installations under tile, stone or wooden flooring. This product is made of HD physically cross-linked Isolmant polypropylene, coated on the upper side with special fibtec XP1 (black, screen-printed and calendered polypropylene technical geotextile) and on the lower side with an adhesive positioning layer (type Isolmant IsolTile AD). Nominal thickness 2 mm, density 77 kg/m³, thermal conductivity 0.037 W/mK.



GREEN FEATURES OF ISOLMANT ISOLTILE AD

- **Volatile Organic Compounds free (VOC A+).**
- **Manufactured with low environmental impact.**
- Contributes to achieving credits for the **environmental certification** of a building according to the **LEED or ITACA** protocols.
- This product can be disposed of according to CER n. 170604.

This product complies with the requirements defined by CAM Edilizia for acoustic and thermal insulation materials regarding the percentage of recycled material and the absence of hazardous substances.

Green Planet is our sustainable development protocol that includes all our commitments to increase process, environmental, social and corporate responsibility.

A set of sustainable actions, goals and behaviors in agreement with our mission, our ethical choices and the **Sustainable Development Goals from 2030 Agenda**.

PRODUCT AND PRODUCTION
PROCESS SUSTAINABILITY

ENVIRONMENTAL
SUSTAINABILITY

CORPORATE
RESPONSIBILITY

SOCIAL
RESPONSIBILITY

Find out more
at [Isolmant.com](https://www.isolmant.com)

ADVANTAGES



It significantly enhances impact sound insulation, making it ideal for both renovation projects and new constructions.



Suitable for use in all settings, including residential and commercial environments.



Its low thickness eliminates the need for changes to existing floor elevations.



Low thermal resistance, making it suitable for use with underfloor heating systems, even when installed beneath the flooring.

APPLICATION ADVANTAGES



Easy to install.



The adhesive layer bonds directly to existing flooring or other smooth, clean surfaces, with no need for abrasion or additional adhesives.



Product supplied with accessories for proper installation.



Does not require the use of special adhesives.



Provides protection against cracking in large-format ceramic flooring.

UNDER FLOORING INSTALLATION (TYLE, STONE, WOODEN FLOORING) ON EXISTING FLOORING OR OTHER SMOOTH AND CLEAN SURFACE.



PREPARING THE SCREED

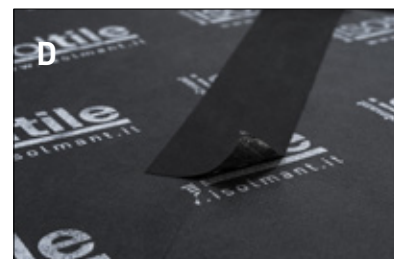
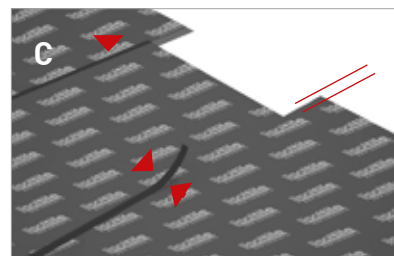
STEP 1

The surface to which IsolTile AD is to be applied must be smooth and clean, free from debris or oil, such that the adhesive fiber on the lower side of IsolTile AD can adhere easily. Like existing floors, aluminium or other metal radiant panels. It will be the responsibility of the installer to assess the suitability of the surface, including its flatness and bearing capacity, for the application of IsolTile AD sheets (Fig. A)

STEP 2

LAYING THE SHEETS

Arrange IsolTile AD, taking care to lay the screen-printed side in visible position, on the previously cleaned base, aligning the sheet with one of the walls and cutting it to size. The adhesive lower side can be installed without using glues and directly on the existing flooring. Remove the silicone-coated film (Fig. B) taking care to maintain alignment and exerting adequate pressure (on the portion of the sheet where the silicone-coated film has been removed) to ensure perfect adhesion to the substrate and remove any air bubbles. It is also necessary to tape the joints between the sheets using the joint strip Fascia per Giunte that comes in the package (Fig. B-C).



INSTALLING FASCIA PERIMETRALE

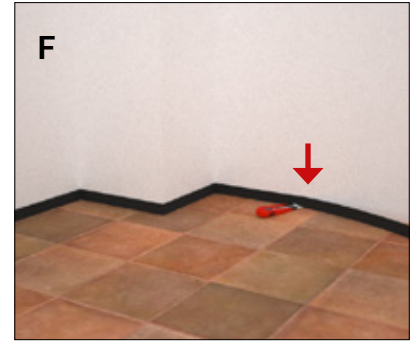
STEP 3

To prevent acoustic bridges, it is recommended to use the Isolmant Fascia Perimetrale which comes in the package. This should be applied. It should be applied before spreading sheets all around the room perimeter.(Fig.D). Installing Fascia Perimetrale on walls is necessary to separate the finish from the masonry. If the floor to be subsequently installed is a wooden floor, Fascia Perimetrale is not necessary because the expansion gap normally left between the wooden floor and the wall is greater than the thickness of Fascia Perimetrale.

STEP 4 INSTALLING FLOORING AND SKIRTING BOARDS

Once IsolTile AD has been installed and taped the flooring can be installed immediately. The tiles or parquet can be glued directly onto IsolTile AD by applying a suitable layer of adhesive (we recommend using a class C2E cementitious adhesive with tiles and stone finishes and two-component epoxy-polyurethane glues with parquet) laid according to the rules of the art and according to the instructions provided by the manufacturer. In particular, installation should be carried out under proper temperature and moisture conditions and in compliance with the wooden flooring installation standard.

IsolTile AD is a water-impermeable membrane: adequate drying time of the adhesive must be considered in relation to climatic and site conditions. It is recommended that the adhesive is allowed to dry for 36 to 48 hours before grouting the joints. It is essential to inform all site operators that the excess of the flanking strip must only be trimmed after the tile flooring has been installed and grouted and before the skirting board is laid (Fig. E). The direct contact of the flooring with the walls creates an acoustic bridge, which causes a loss of insulation of several decibels. Therefore, the flooring should be joint to the flanking strip, ensuring the elastic functioning of the system. The tiled skirting board should not be placed on the floor, but should be raised a few millimetres (Fig. F) and grouted with an elastic, silicone-based binder or with an additive mortar with flexible behaviour. If the joint were rigid, it would prevent the floor from floating and would de-grout.





GLUE

When laying ceramic or stone floors, it is advisable to use cement adhesives of class C2E or higher, depending on the specific needs of the site, as per EN12004.

When laying wooden floors, we recommend the use of two-component epoxy-polyurethane glues.

MOVEMENT JOINTS

Existing fractioning joints in the substrate may be avoided when laying IsolTile Classic, but structural joints and expansion joints in the flooring must be respected for minimum units of surface area as per current regulations.

JOINTS

Before grouting the joints of ceramic floors, make sure that the substrate and the adhesive are completely dry. It is recommended to grout the joints using a specific product according to the type of flooring and the intended use of the room. Class CG2 sealants are suitable for use in residential environments.



WARNINGS:

* This data sheet does not constitute a specification and, if it consists of several pages, please ensure that you have consulted the complete document. Although, these instructions are the result of our best expertise they are indicative. The user should establish whether the product is suitable for its intended application. The user will be also in charge of all the responsibility for the use of the product itself.

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

***Caution: do not expose the product to direct sunlight and bad weather.



Via dell'Industria 12, Località Francolino 20074 Carpiano (Mi) Tel. +39 02 9885701 Fax +39 02 98855702
clienti@isolmant.it - www.isolmant.it - www.sistemapavimento.it - www.isolmant4you.it

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