



# PREMIUM

## line

# ISOLMANT SPECIAL 2 mm FOSSIL FREE

Isolmant Special Series R derived from certified renewable sources, for sound insulation beneath floating flooring

## WHAT IS ISOLMANT SPECIAL 2 mm FOSSIL FREE

Resilient layer in Isolmant Special R Series polyethylene, completely sustainable and from renewable sources, embossed and screen-printed on the upper side, characterized by a better and calibrated quality of polyethylene cellularization. The brown wood color recalls the type of flooring for which it is designed and the bio-circular and bio-based materials from which it is composed. It guarantees constant performance over time thanks to its intrinsic quality and its high density which allows for improved insulation performance against impact noise and RWS reverberation noise when used for the floating installation of parquet and laminates. Thickness 2 mm.

## AREAS OF APPLICATION

Isolmant Special 2 mm Fossil Free has been specifically designed for the floating installation of laminate flooring, parquet and other types of rigid floors while complying with environmental sustainability requirements. A high-quality system that reduces both impact and reflected noise. Isolmant Special 2 mm Fossil Free has been developed to protect the click-lock joints of these floorings, even under heavy loads. To be installed with the screen-printed side facing upward. Isolmant Special 2 mm Fossil Free is suitable for use with underfloor heating and cooling systems.

## 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



[www.blauer-engel.de/uz156](http://www.blauer-engel.de/uz156)



SUSTAINABLE



HEALTHY



All our products with the “**Guaranteed Green Planet**” logo are compliant with the sustainability criteria of the most important environmental protocols and certified according to the major national and international standards.

# ISOLMANT SPECIAL 2 mm FOSSIL FREE > TECHNICAL SPECIFICATIONS | 1



			VALUE	ADDITIONAL INFORMATION	STANDARD
		NOMINAL THICKNESS:	2 mm		EN 823
Acoustic		REFLECTED WALKING SOUND (RWS):	21 Sone	Superior performance	EN 16205
		IMPACT SOUND INSULATION (IS):	$\Delta L_w = 22 \text{ dB}^{(1)}$	EPLF MMFA: Superior performance	ISO 10140-3
Mechanic		COMPRESSIVE STRENGTH (CS):	40 kPa (0.5 mm deformation)	CS1Class	EN 826
		COMPRESSIVE CREEP (CC)	< 20 kPa (max load with def. < 0.5 mm in 10 years)	CC1Class	EN 1606
		DYNAMIC LOAD (DL):	25.000 cycles (at 25 kPa)	DL1 Class	EN 13793
		IMPACT RESISTANCE - LARGE BALL TEST (RLB):	900 mm (under 7 mm DPL laminate)	RBL2 Class	EN 13329
		CONFORMABILITY (PC):	1.1 mm	PC2	EN ISO 868
Thermo hygrometric		THERMAL RESISTANCE (RT):	$R_t = 0,045 \text{ m}^2\text{K/W}$	$R_{\lambda,B} \leq 0,10 \text{ m}^2\text{K/W}$ cooling $R_{\lambda,B} \leq 0,15 \text{ m}^2\text{K/W}$ heating	EN 12667
		WATER VAPOUR RESISTANCE (SD):	$S_d \leq 40 \text{ m}$	method A @23°C from 0% to 50% relative humidity	EN 12086
		REACTION TO FIRE CLASS:	$E_{fl}^{(2)}$		EN 13501-1
		EMISSION OF VOLATILE ORGANIC COMPOUNDS:	VOC A+ <sup>(3)</sup>		ISO 16000-9
		CIRCULARITY:	Bio-based, Bio-circular <sup>(4)</sup>	mass balance	ISCC PLUS

(1) Test report Isolmant Laboratory n. 1165/2022

(2) LS Fire Classification report n. PC19412

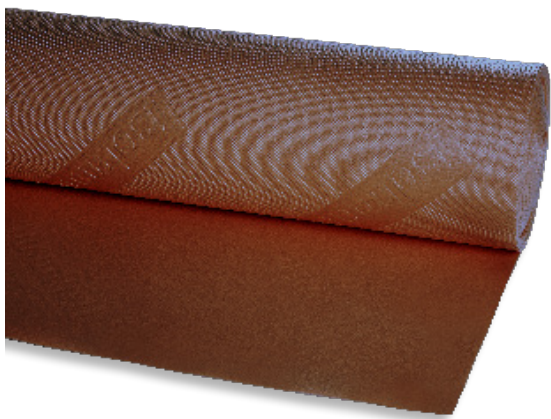
(3) Istituto Giordano test report n. 376851

(4) ISCC-PLUS-Cert- IT204-25005120 issued on 14.02.2025

	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:	Rolls of: 1.00 m x 15 m equal to 15 m <sup>2</sup>
	PACKAGE:	Cardboard boxes of 24 rolls (360 m <sup>2</sup> )

ITEM SPECIFICATIONS

Resilient layer made of second-generation Isolmant Special FOSSIL FREE polyethylene from renewable sources. This product ensures an even performance and high compressive strength over the time (Isolmant Special 2 mm FOSSIL FREE type). To be installed with the embossed and screen-printed side in visible position. Density 50 kg/m<sup>3</sup>. Reaction to fire E<sub>fl</sub>. Nominal thickness 2 mm.



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 FEATURES OF ISOLMANT SPECIAL 2mm FOSSIL FREE

- **ISCC Plus certified bio-circulated renewable material** (using mass balance approach).
- **The renewable source is not in competition with the food chain**, is derived from biomass, is certified and meets the definition of waste or residue according to ISCC.
- **Volatile Organic Compounds free (VOC A+).**
- **Blue Angel certified product** (European eco-label certification).
- Free of plasticisers, asbestos, formaldehyde, halogens and heavy metals.
- It is solvent-free and contains no other ozone-depleting substances.
- This product can be disposed of according to EWC n. 170604.

**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**

-  ISCC Plus certified and made from bio-circular raw materials.
-  Excellent acoustic insulation against both impact noise and reverberation noise (RWS).
-  Low thermal resistance.
-  Superior surface conformance (PC).
-  Contact with water does not alter its performance and characteristics.
-  Unalterable over time with unlimited durability.
-  Resistant to mold or insects.

**APPLICATION ADVANTAGES**

-  Easy to install.
-  Clean, dust-free cutting with a utility knife or cutter.



### PREPARING THE SCREED

### STEP 1

The surface where Isolmant Special 2 mm Fossil Free is installed should be load-bearing, flat, adequately even, clean and free from debris and oil. However, it will be the responsibility of the installer to assess the suitability of the surface for laying the sheets and the subsequent floating installation of laminates and parquet by carrying out some preliminary checks:

- external doors and windows must be installed with their glass panes and rooms to floor must be protected from the weather;
- other types of flooring must have been already been laid;
- masonry, installation of cladding and sanitary fixtures must have been completed;
- the temperature of the rooms must be  $\geq 15^{\circ}\text{C}$
- the ambient humidity must be between 45% and 60%;
- the conditions of the substrate must have been checked and must be compliant and suitable for the laying of the flooring;
- in the case of a heating screed, the pre-heating cycle must have been carried out.

### LAYING THE SHEETS

### STEP 2

Install the sheets with the screen-printed side facing upwards (visible), side by side and carefully aligned, taking care not to overlap them; cutting the sheets is easy and clean: we recommend using a utility knife or box cutter.

### LAYING OF WOODEN FLOORING

### STEP 3

Installation should be carried out under proper temperature and humidity conditions and in compliance with the wooden flooring installation standard UNI 11265:2015.. In particular, sector's standards and regulations set that the installation environment must ensure environmental conditions within the values of max. RH 45%-60%,  $T^{\circ}\text{C}$   $18^{\circ}\text{C}$  -  $25^{\circ}\text{C}$ , the necessary conditions for maintaining the correct wood/environment balance as defined by the reference European standard UNI EN 13489:18 (7%+2%). In addition, the screed on which the flooring is laid must have a humidity percentage of no more than <2% in the case of a screed/laying surface without a heating system, <1.7% in the case of underfloor heating.





## 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.



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