



# ISOLMANT SPECIAL 2mm SERIE R

## UNDER FLOORING INSULATION

Isolmant Special Serie R from renewable sources, specific for floating floor.

### WHAT IS ISOLMANT SPECIAL 2mm SERIE R?

Resilient layer made of Isolmant Special Serie R polyethylene (from renewable sources) with embossed and screen-printed upper side, featured by a better and calibrated quality of the polyethylene cellulation. Wood-brown colouring that evokes the type of flooring for which it is designed and the bio-circular materials from which it is made. Thanks to its intrinsic quality and physical properties, this product improves insulation performance against impact and RWS noise when used for floating installation of wooden and laminate flooring. Thickness 2 mm.

### SPECIFIC APPLICATIONS

Isolmant Special Serie R is specifically designed for floating installation of laminate flooring, wooden flooring and other types of hard flooring while meeting environmental sustainability standards. A high quality system to reduce impact and reflected noise. Isolmant Special Serie R has been developed to protect the interlocking devices of these floorings even when subjected to high loads. To be installed with the screen-printed side facing upwards. Isolmant Special Serie R is specifically recommended in case of underfloor heating systems. Check  $R_t$  (flooring+ underlay)  $\leq 0.15K/W$ .









## GREEN FEATURES OF ISOLMANT SPECIAL 2mm SERIE R


- **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.

Complies with the requirements defined by the Italian CAM Edilizia for acoustic and thermal insulation materials regarding the request for high acoustic insulation performance, 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

- ISCC Plus certified bio-circulated renewable material (using mass balance approach).
- Excellent sound insulation against impact noise and RWS noise.
- Low thermal resistance.
- High conformability (PC).

### SPECIFIC APPLICATIONS

- Easy and dust-free cutting using a utility knife or box cutter.



## ISOLMANT SPECIAL 2 mm SERIE R > TECHNICAL SPECIFICATIONS

> To be positioned with the screen printed fabric facing upwards.

NOMINAL THICKNESS:	2 mm
IMPACT SOUND INSULATION (RWS):	21 sone
IMPACT SOUND INSULATION:	$\Delta L_w = 22 \text{ dB}^{(1)}$
COMPRESSIVE STRENGTH (CS):	40 kPa (0.5 mm deformation)
COMPRESSIVE CREEP (CC)	2 kPa (max. load def. < 0.5 mm in 10 years)
DYNAMIC LOAD (DL):	25.000 cycles (at 25 kPa)
CONFORMABILITY:	1.1 mm
IMPACT RESISTANCE - LARGE BALL TEST:	900 mm (under 7 mm of DPL laminate flooring)
THERMAL RESISTANCE	$R_t = 0.045 \text{ m}^2\text{K/W}$
WATER VAPOUR RESISTANCE - $S_d$ (WVTV):	$S_d = < 40 \text{ m}$
EMISSION OF VOLATILE ORGANIC COMPOUNDS:	VOC A+ <sup>(2)</sup>
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:	Paper boxes of 24 rolls (360 m <sup>2</sup> )

(1) Isolmant laboratory test report No. 1165/2022

(2) Istituto Giordano test report No. 376851

### ITEM SPECIFICATIONS

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



### PREPARING THE SCREED

### STEP 1

The surface where Isolmant Special Serie R 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°C - 25°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.



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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