



PREMIUM

line

ISOLMANT HD RED

UNDERFLOOR INSULATION

Ultra high density product, specifically designed for acoustic insulation under floating floors.

WHAT IS ISOLMANT HD RED

High-density resilient layer in Isolmant polyethylene, coated with a LDPE film acting as a vapor barrier. The product is equipped with an adhesive flap for overlapping and sealing the sheets. Embossed on the underside. To be installed with the LDPE film facing upward and the embossed side facing downward.

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

Isolmant HD Red is designed specifically for the floating installation of laminate and parquet flooring. A high-quality system that reduces both impact and reflected noise. Isolmant HD Red was specifically developed to protect these types of flooring even in the presence of residual or rising moisture from the underlying layers. The product is also suitable for use with underfloor heating and cooling systems.



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 HD RED > TECHNICAL SPECIFICATIONS | 1



		VALUE	ADDITIONAL INFORMATION	STANDARD
		NOMINAL THICKNESS:	2 mm	EN 823
Acoustic		REFLECTED WALKING SOUND (RWS):	> 22 Sone	Superior performance EN 16205
		IMPACT SOUND INSULATION (IS):	$\Delta L_w = 20 \text{ dB}^{(1)}$	EPLF MMFA: superior performance ISO 10140-3
Mechanic		COMPRESSIVE STRENGTH (CS):	60 kPa (0.5 mm of deformation)	CS2 class EPLF: superior performance EN 826
		COMPRESSIVE CREEP (CC):	15 kPa (max load with def. < 0.5 mm in 10 years)	CC1 class EPLF: superior performance EN 1606
		DYNAMIC LOAD (DL):	< 100.000 cycles (at 25 kPa)	DL1 class EPLF: superior performance EN 13793
		IMPACT RESISTANCE - LARGE BALL TEST (RLB):	1000 mm (under 7 mm of DPL laminate)	RLB2 class EPLF: superior performance EN 13329
		CONFORMABILITY (PC):	1,6 mm	PC2 EN ISO 868
Thermo hygrometric		THERMAL RESISTANCE (RT):	$R_t = 0.049 \text{ m}^2\text{K/W}$	$R_{\lambda,B} \leq 0,10 \text{ m}^2\text{K/W}$ cooling $R_{\lambda,B} \leq 0,15 \text{ m}^2\text{K/W}$ cooling EN 12664
		WATER VAPOUR RESISTANCE (SD):	$S_d > 100 \text{ m}^{(2)}$	method A @23°C from 0% to 50% relative humidity EN 12086
		REACTION TO FIRE CLASS:	$B_{fl-s1}^{(3)}$	EN 13501-1
		EMISSION OF VOLATILE ORGANIC COMPOUNDS:	VOC A+ ⁽⁴⁾	ISO 16000-9

(1) ITA Test Report No 0109b.13-P 159/12

(2) MPA NRW test report no. 220011527

(3) Istituto Giordano test report no. 376851

(4) LS Fire classification report n. PC19411

	CE MARKING:	Per i prodotti isolanti acustici NON SONO ATTUALMENTE DISPONIBILI le norme armonizzate per la marcatura CE. Questo significa che i prodotti Isolmant attualmente NON SONO SOGGETTI A MARCATURA CE, né alla redazione della DOP (declaration of performance) o DDP (dichiarazione di prestazione). Tutti i prodotti Isolmant sono immessi sul mercato nel rispetto delle normative vigenti nel Paese di destinazione e con le certificazioni necessarie a garantirne l'utilizzo nelle applicazioni dedicate.
	SIZE:	Rolls of: 1.0 m x 15 m equal to 15 m ²
	PACKAGE:	Cardboard boxes of 20 rolls (300 m ²)

ITEM SPECIFICATIONS

Resilient layer made of Isolmant high density polyethylene coated by LDPE film that acts as a vapour barrier (Isolmant HD Red type). Embossed on the lower side. The red film extends for a length of approximately 10 cm beyond the edge of the mat, in order to allow correct sealing between the sheets, the overlap is equipped with adhesive. Fire reaction Euroclass Bfl-s1. To be laid with the LDPE film facing upwards and the embossed side facing downwards. Nominal thickness 2 mm.








GREEN FEATURES OF ISOLMANT HD RED

- **Volatile Organic Compounds free** (VOC A+)
- **It contains no plasticisers, asbestos, formaldehyde, halogens or heavy metals.**
- It is **solvent-free** and contains no other ozone-depleting substances.
- This product can be disposed of according to **EWG n. 170604.**

This product complies with the requirements defined by Italian 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.**

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PRODUCT AND PRODUCTION PROCESS SUSTAINABILITY
- 
ENVIRONMENTAL SUSTAINABILITY
- 
CORPORATE RESPONSIBILITY
- 
SOCIAL RESPONSIBILITY






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

ADVANTAGES

-  Excellent acoustic insulation against both impact noise and reverberation noise (RWS).
-  Low thermal resistance.
-  Integrated vapor barrier with adhesive selvage $S_d > 100m$.
-  High mechanical performance.
-  Contact with water does not alter its performance and characteristics.
-  Unalterable over time with unlimited durability.
-  Resistant to mold or insects.

SPECIFIC APPLICATIONS

-  Easy to install.
-  Easy to trim: can be effortlessly cut with a utility knife or box cutter.
-  Adhesive selvage to facilitate the overlapping and sealing of sheets.



PREPARING THE SCREED

STEP 1

The surface where ISOLMANT HD Red 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 the relevant glass panes and the rooms to be floored must be protected from severe weather conditions;
- other types of flooring must have already been laid;
- masonry, installation of cladding and sanitary fixtures must have been completed;
- temperature of the rooms must be $\geq 15^{\circ}\text{C}$
- humidity must be between 45% and 60%;
- the conditions of the substrate must have been checked and it must be compliant and suitable for the installation required;
- in the case of a heating screed, the pre-heating cycle must have been carried out.

LAYING THE SHEETS

STEP 2

Lay the sheets with the PE film facing upwards (visible) and the emossed side facing downwards, side by side and neatly overlapping, use the adhesive overlapping flap to overlap by approximately 10 cm and seal with the embedded adhesive tape; cutting the sheets is easy and clean, we recommend using a utility knife or a box cutter.

FLOATING INSTALLATION

STEP 3

In particular, a wooden flooring system should be installed under suitable temperature and humidity conditions, in compliance with relevant installation standards. The sector's standards and regulations establish that the laying environment must guarantee 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 proved by UNI EN 13489:18 (7%+2%). In addition, the screed on which the floor system 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
isolmant.it | sistemapavimento.it | isolmant4you.it

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