

ISOLMANT POLIFIBRE BLOCCARUMORE

AIRBORNE SOUND INSULATION WITH AIR GAP CAVITY

All Isolmant technology (FIBTEC + SPECIAL) in a product specifically designed for acoustic insulation of partition and perimeter walls with air gap cavity

WHAT IS ISOLMANT POLIFIBRE BLOCCARUMORE?


Product made of 3 mm red Isolmant polyethylene that is placed between two IsOLFIBTEC FLC panels that are approx. 2 cm each (recycled fibre of polyester for technical applications). Non toxic, ecological, with unlimited duration. Nominal thickness approx. 40 mm.

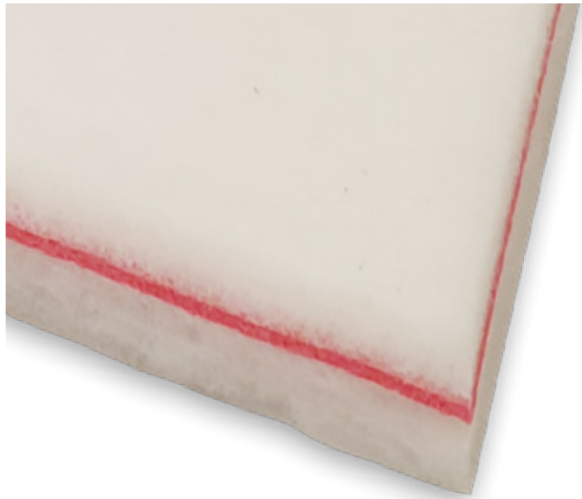
SPECIFIC APPLICATIONS

Isolmant POLIFIBRE BLOCCARUMORE is a versatile product. It is recommended for acoustic and thermal insulation of vertical partitions, perimeter walls and partitions between different building units as well.

Isolmant Polifibre Bloccarumore is dry installed in the air cavity of the metal frame of walls, lining walls and plaster-board ceilings.



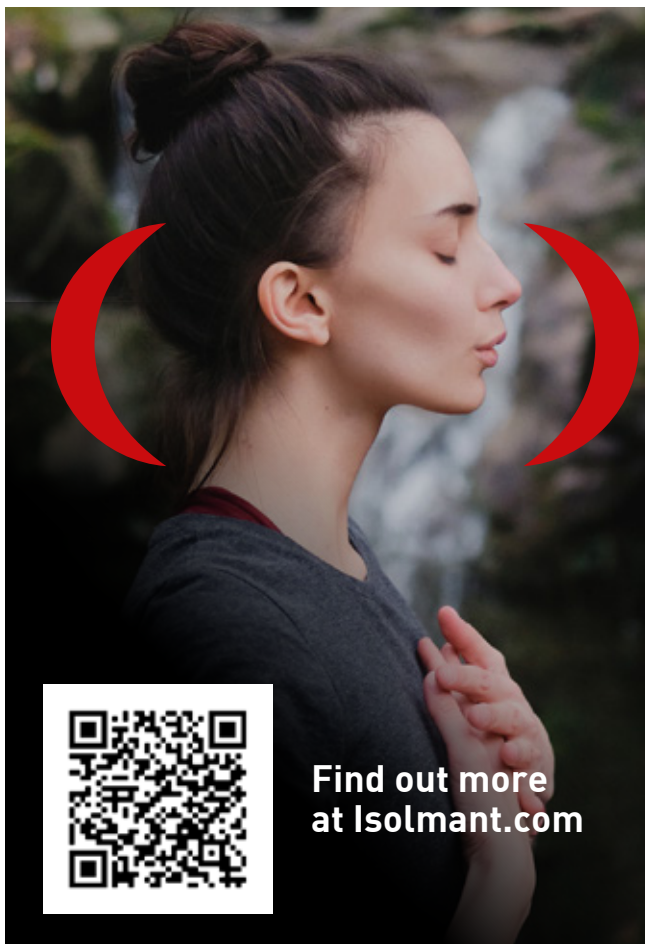
 All our products with the “**Guaranteed Green Planet**” logo are compliant with the sustainability criteria of the most important environmental protocols and certified according to the major national and international standards.



GREEN FEATURES OF ISOLMANT POLIFIBRE BLOCCARUMORE


- **Volatile Organic Compounds free**
- VOC A+.
- **Eco-friendly and recyclable.**
- **Manufactured with low environmental impact.**
- This product contributes to achieve credits for the **environmental certification** of a building according to **LEED** or **BRE-EM** standards
- This product can be disposed of according to **EWC 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**.




PRODUCT AND PRODUCTION
PROCESS SUSTAINABILITY




ENVIRONMENTAL
SUSTAINABILITY



CORPORATE
RESPONSIBILITY



SOCIAL
RESPONSIBILITY



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



ADVANTAGES

- Specifically designed for renovation works, but it can be used also in new buildings.
- High airborne acoustic insulation.
- High thermal insulation.
- Low thermal conductivity.
- Inalterable over time.
- Unlimited duration.
- The performance or characteristics are not compromised by contact with water.
- Resistant to mould or insects.
- Non-toxic and non-allergenic.

INSTALLATION ADVANTAGES

- Small rolls for easy handling during renovation work.
- This product does not require sealing between joints.

ISOLMANT POLIFIBRE BLOCCARUMORE > TECHNICAL SPECIFICATIONS

NOMINAL THICKNESS:	40 mm
SOUND INSULATION (lining walls):	$R_w = 55 \text{ dB}^{(1)} - R_w = 57 \text{ dB}^{(2)}$
SOUND INSULATION (plasterboard walls):	$R_w = 53 \text{ dB}^{(3)} - R_w = 55 \text{ dB}^{(4)} - R_w = 56 \text{ dB}^{(5)} - R_w = 66 \text{ dB}^{(6)}$
THERMAL CONDUCTIVITY:	$\lambda = 0.035 \text{ W/mK}$
THERMAL RESISTANCE:	$R_t = 1.143 \text{ m}^2\text{K/W}$
VAPOUR RESISTANCE:	$\mu = 3600$ (this values only refers to Isolmant polyethylene layer)
EQUIVALENT AIR LAYER THICKNESS:	$S_d = 18 \text{ m}$
OPERATING TEMPERATURE:	from -40°C to 160°C
VOC:	A+

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.
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SIZE:	Rolls 0.6 m x 6 m (equal to 3.6 m ²) Rolls 0.6 m x 24 m (equal to 14.4 m ²)
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PACKAGE:	Single roll
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- (1) ITC test report no. 3528 / RP / 02 (lining wall, on 8 cm perforated wall plastered on both sides, consisting of a 5 cm frame with Isolmant Polifibra Bloccarumore interposed in the air gap and IsolGypsum Telogomma Standard, the second of which is a double panel).
- (2) Value calculated according to UNI EN 12354-1 and UNI TR 11175 standards on the following stratigraphy:
Lining wall, on 12 cm perforated wall plastered on both sides, consisting of a 5cm frame with Isolmant Polifibra Bloccarumore interposed in the air gap cavity and IsolGypsum Special 5mm Standard, the second of which is a double panel.
- (3) Value calculated according to UNI EN 12354-1 and UNI TR 11175 standards on the following stratigraphy:
Plaster board wall made of a 50 mm frame with Isolmant Polifibra Bloccarumore and each side sealed by a single IsolGypsum Special 5mm D+ Salus panel.
- (4) Value calculated according to UNI EN 12354-1 and UNI TR 11175 standards on the following stratigraphy:
Plaster board wall made of a 50 mm frame with Isolmant Polifibra Bloccarumore and each side sealed by two panels of 12.5mm thick.

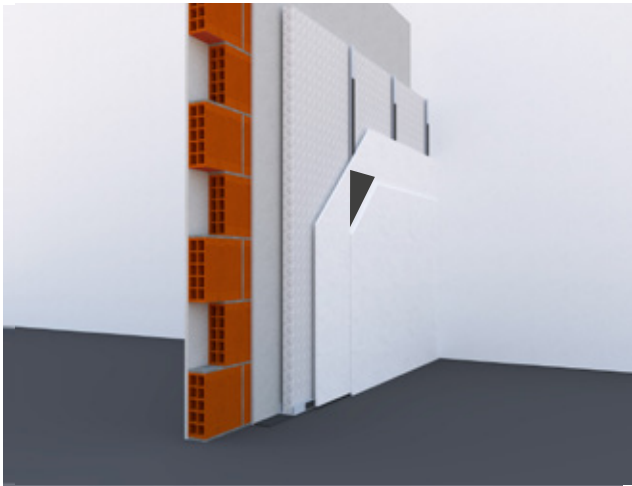
- (5) Value calculated according to UNI EN 12354-1 and UNI TR 11175 standards on the following stratigraphy:
Plaster board wall made of a 50 mm frame with Isolmant Polifibra Bloccarumore and each side sealed by two panels and the second one is IsolGypsum Telogomma Standard.
- (6) Value calculated according to UNI EN 12354-1 and UNI TR 11175 standards on the following stratigraphy:
Plaster board wall made a double frame - 50 mm the first and 75 mm the second one, and 5 panels :double panel of which the second IsolGypsum Special 5mm Standard + 50 mm frame with Isolmant Polifibra Bloccarumore + plasterboard central panel + 75 mm frame with Isolmant Polifibra Bloccarumore + double panel of which the second IsolGypsum Special 5mm Standard

ITEM SPECIFICATIONS

Insulating product that comes in rolls and it is made of soundproofing 3-mm thick reticulated expanded closed-cell polyethylene that is joined on both sides with soundproofing 2 cm polyester fibre.

Nominal thickness approx. 40 mm.

STRUCTURE (1)

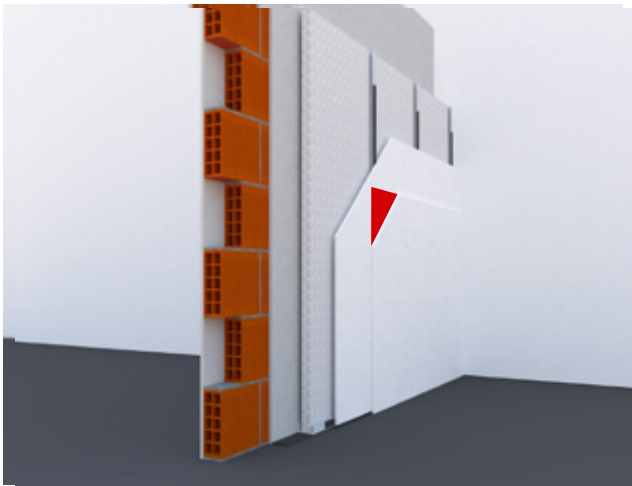


$$R_w = 55 \text{ dB}$$

ITC Test Report n. 3518 / RP / 02

Lining wall, on 8 cm perforated wall plastered on both sides, consisting of a 5 cm frame with Isolmant Polifibra Bloccarumore interposed in the air gap cavity and IsolGypsum Telogomma Standard, the second of which is a double panel).

STRUCTURE (2)

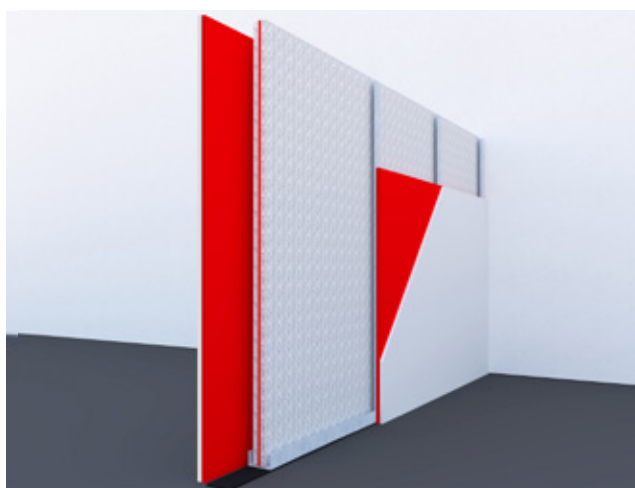


$$R_w = 57 \text{ dB}$$

Value calculated according to
UNI EN 12354-1 and UNI TR 11175

Lining wall, on 12 cm perforated wall plastered on both sides, consisting of a 5cm frame with Isolmant Polifibra Bloccarumore interposed in the air gap cavity and IsolGypsum Special 5mm Standard, the second of which is a double panel.

STRUCTURE (3)

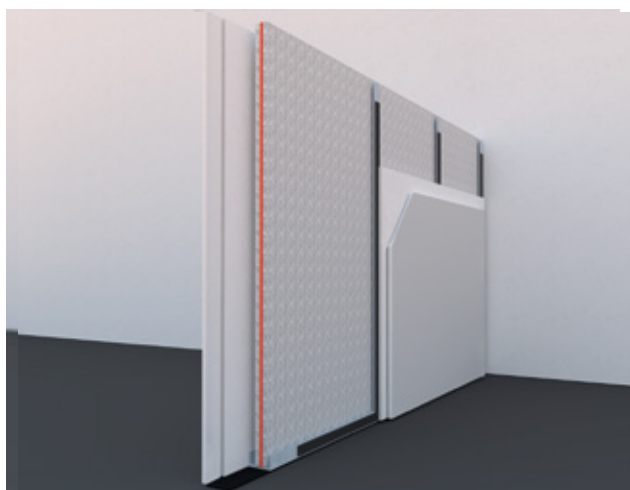


$$R_w = 53 \text{ dB}$$

Value calculated according to
UNI EN 12354-1 and UNI TR 11175

Plaster board wall made of a 50 mm frame with Isolmant Polifibre Bloccarumore and each side sealed by a single IsolGypsum Special 5mm D+ Salus panel.

STRUCTURE (4)

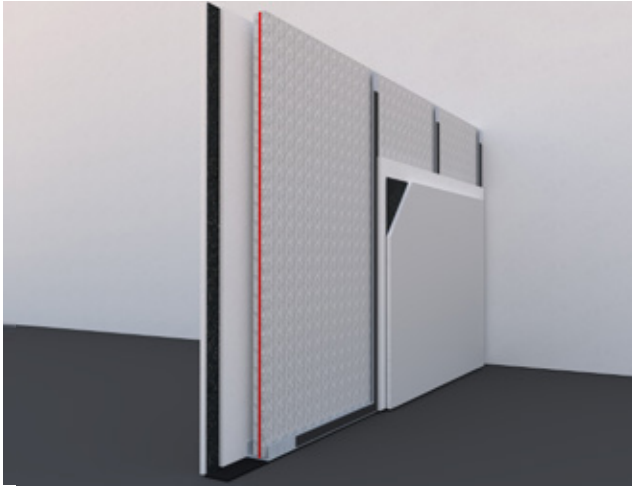


$$R_w = 55 \text{ dB}$$

Value calculated according to
UNI EN 12354-1 and UNI TR 11175

Plaster board wall made of a 50 mm frame with Isolmant Polifibre Bloccarumore and each side sealed by two panels of 12.5mm thick.

STRUCTURE (5)

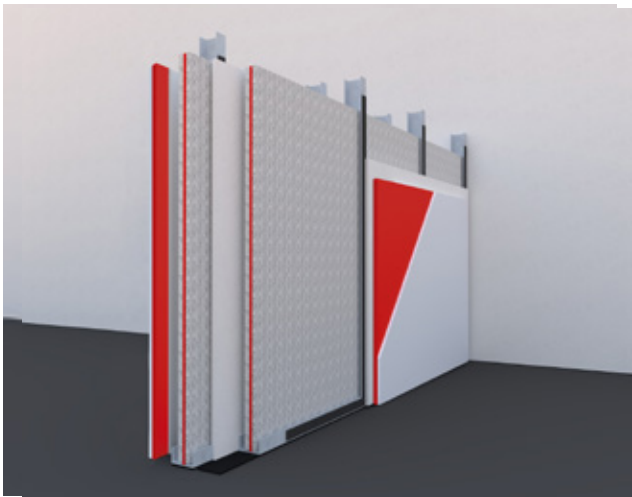


$$R_w = 56 \text{ dB}$$

Value calculated according to
UNI EN 12354-1 and UNI TR 11175

Plaster board wall made of a 5 cm frame with Isolmant Polifibre Bloccarumore and each side sealed by two panels and the second one is IsolGypsum Telogomma Standard.

STRUCTURE (6)

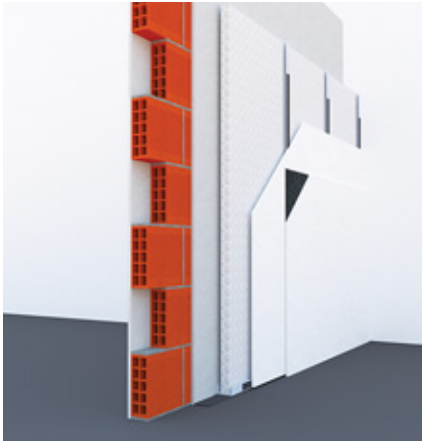


$$R_w = 66 \text{ dB}$$

Value calculated according to
UNI EN 12354-1 and UNI TR 11175

Plaster board wall made a double frame - 50 mm the first and 75 mm the second one, and 5 panels: double panel of which the second IsolGypsum Special 5mm Standard + 50 mm frame with Isolmant Polifibre Bloccarumore + plasterboard central panel + 75 mm frame with Isolmant Polifibre Bloccarumore + double panel of which the second IsolGypsum Special 5mm Standard

INSTRUCTIONS FOR DRY METAL FRAME INSTALLATION OF PARTITIONS



METAL STRUCTURE INSTALLATION

STEP 1

Disjoint metal structure, flooring, ceiling, adjacent perimeter walls and plaster-board panels that are adjacent to the metal structure. Carry out this task by applying Isolmant Nastro Orditura Cartongesso - Isolmant 3.5 mm thick, physically reticulated expanded closed-cell polyethylene strips. In order to reduce losses due to flanking, it is advisable, if possible, to distance the metal structure at a 1-2 cm from the existing wall.

INSTALLING INSULATION

STEP 2

Install Isolmant Polifibre Bloccarumore inside the metal frame by selecting the suitable thickness (it is advisable to fill the air gap cavity to at least 80%).

INSTALLING PANELS

STEP 3

After laying the insulation, it will be necessary to install the first coated plaster-board panel and carefully seal and grout all joints between panels as well as all joints between panels and walls and between panels and ceiling. Then install the second panel. It is advisable to lay the second panel, if possible thicker than the first, offset from the first, in order to avoid overlapping joints, and then to proceed with the finishing operations according to dry installation standards. To further improve performance, it is advisable to install a second layer by using the most suitable version of Isolmant IsolGypsum.

INSTRUCTIONS FOR DRY OR FRAME INSTALLATIONS



METAL STRUCTURE INSTALLATION

STEP 1

Separate the metal frame from the floor, from the soffit, from the adjacent perimeter walls and from the plasterboard sheets adjacent to it by applying Isolmant Nastro Orditura Cartongesso - Isolmant 3.5 mm thick, physically reticulated expanded closed-cell polyethylene strips.

INSTALLING INSULATION

STEP 2

Install Isolmant Polifibre Bloccarumore inside the metal frame by selecting the suitable thickness (it is advisable to fill the air gap cavity to at least 80%).

INSTALLING PANELS

STEP 3

Best results are obtained with structures with at least 2 panels per side according to the central metal frame. After the insulation has been laid in the air cavity gap of the metal structure, the first coated plasterboard panel must be positioned on each side of the structure and carefully seal and grout all joints between panels as well as all joints between panels and walls and between panels and ceiling. Then install the second panel. It is advisable to lay the second panel (preferably thicker than the first) offset from the first in order to avoid overlapping joints, and then to proceed with the finishing operations according to dry installation standards. Follow the same installation procedure on the other side.

To further improve performance, it is advisable to lay a sheet of Isolmant Isol-Gypsum as a second sheet in the most suitable version according to installation standards.

INSTRUCTIONS FOR DRY METAL FRAME INSTALLATION OF CEILINGS



METAL STRUCTURE INSTALLATION

STEP 1

Install the metal structure on anti-vibration brackets and disjoint this structure by using Isolmant Nastro Orditura Cartongesso tape to avoid direct contact between the metal frame and the plasterboard panels.

INSTALLING INSULATION

STEP 2

Install Isolmant Polifibre Bloccarumore inside the metal frame by selecting the suitable thickness (it is advisable to fill the air gap cavity to at least 80%).

INSTALLING PANELS

STEP 3

After laying the insulation, it will be necessary to install the first coated plasterboard panel and carefully seal and grout all joints between panels as well as all joints between panels and walls and between panels and ceiling. To further improve performance, it is advisable to install a second layer by using the most suitable version of Isolmant IsolGypsum.



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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