ISOLMANT PERFETTO CG

PLASTERBOARD WALL AND PARTITIONS INSULATION

Ecological and high-performance, the top for plasterboard structures, ideal for both vertical structures and false ceilings. The density gradient allows for superior acoustic performance compared to a normal panel of the same thickness and density

ISOLMANT PERFETTO CG

This product consists of a IsolFIBTEC PFT panel (recycled fibre of polyester for technical application whose density increase along the thickness. This fibre has high acoustic and thermal performance.) The special density gradient allows for higher acoustic performance than a normal panel of the same thickness and density. Non toxic, ecological, with unlimited duration, recyclable. 25, 45 and 60 mm thickness available.

Thicknesses available:

25 mm 45 mm 60 mm

SPECIFIC APPLICATIONS

Isolmant Perfetto CG is a high-performance product specifically designed for the acoustic and thermal insulation of lightweight structures, particularly plasterboard, whether they are vertical partitions or false ceilings. It should be inserted into the cavity of the metal structure.

SUSTAINABLE HEALTHY ECOLOGICAL

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.

Perfetto CG is REMADE IN ITALY certified [1], product certification, under ACCREDIA accreditation, which attests to the recycled content in the product.

This certification is accepted during the tender and award phase, in accordance with the provisions of the public procurement regulations and the CAM.

RECYCLED CONTENT CERTIFICATE PERFETTO CG N° IT335452 Issued on 03/09/2024			
Raw material	**% of raw material in the product**	**% of recycled content in 1 kg of raw material**	**% of recycled content in the finished product**
FIBTEC PFT	100%	**50%***	**50%**

* Minimum percentage required by CAM for this type of raw material 50%.

OTHER SUSTAINABILITY CHARACTERISTICS

Result to VOC emission test:
- VOC A+;
- Indoor Air Comfort GOLD;

Low environmental impact.

Can be disposed according to **EWC No. 170604** insulation materials NON-HAZARDOUS plastics.

It helps achieve credits for a building's **environmental certification according to the following protocols**:

CAM ✓ ITACA ✓ WELL ✓ BREEAM ✓ LEED ✓

[1] The central aspect of the REMADE® certification is the preparation of a traceability model of material flows in the production process and transparency of the operations carried out and the relevant documentation.
It is an effective tool to respond to the growing attention paid to materials deriving from recycling, recovery and by-products, which comes from the recent global model of sustainable development of the circular economy, characterized by the maintenance, for the longest possible time, of the value of products, materials and resources in the system, which are returned to the product cycle at the end of their use, so that the generation of waste is minimised, to help develop a sustainable, low-carbon, resource efficient and competitive.

ADVANTAGES


Can be used both in renovation and in new buildings.


High airborne acoustic insulation.


High thermal insulation.


Low thermal conductivity.


Unalterable over time unlimited duration.


Transpiring.


Contact with water does not compromise performance or characteristics


Resistant to mould or insect


Non-toxic and non-allergenic.

ADVANTAGES FOR INSTALLATION


Easy to install.


Panel with dimensions designed to avoid waste when installing in the cavity of plasterboard structures.

ISOLMANT PERFETTO CG > TECHNICAL SPECIFICATIONS

NOMINAL THICKNESS:	25 mm	45 mm	60 mm
SOUND INSULATION:		R_w = 55 dB [1]	
CONDUCTIVITY:	λ= 0.038 W/mK		
THERMAL RESISTANCE:	R_t = 0.658 m^2K/W	R_t = 1.184 m^2K/W	R_t = 1.579 m^2K/W
SPECIFIC HEAT CAPACITY:	c = 1200 J/kgK		
VAPOUR RESISTANCE:	μ = 2		
EQUIVALENT AIR LAYER THICKNESS:	S_d = 0.05 m	S_d = 0.09 m	S_d = 0.12 m
REACTION TO FIRE:	Euroclass B-s2,d0 [2]		
OPERATING TEMPERATURE:	Thermal decomposition > 380 °C - Melting point 195 °C - 260 °C		
EMISSION OF VOLATILE ORGANIC SUBSTANCES:	VOC A+ [3] Indoor Air Confort GOLD [4]		
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 POD (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:	Panels with dimensions 0.60 m x 1.00 m = 0.60 m^2		
PACKAGE:	Packs of 30 panels (18 m^2 per pack)	Packs of 20 panels (12 m^2 per pack)	Packs of 15 panels (9 m^2 per pack)

(1) CSI test report no. 0077-B/DC/ACU/08 (Curtain wall on 8 cm perforated wall with metal frame, double plasterboard sheet and Isolmant Perfetto CG 45 in the cavity)

(2) LAPI Test Report No.1406.0DC0030/09

(3) Istituto Giordano test report no. 381824

(4) Indoor Air Confort GOLD test report by Eurofins n. 392-2024-00329701_A_EN

ITEM SPECIFICATIONS

Insulating panels (0.6 x 1.00 m) made of a layer of recycled fibre of polyester for technical application whose density increase along the thickness. This product provide a high sound insulation performance and thermal resistance (Isolmant Perfetto CG type). 25, 45, or 60 mm nominal thickness panel. Thermal resistance equal to 0.658, 1.184, or 1.579 m^2 K/W (for 25, 45 and 60 mm versions). Indoor Air Comfort GOLD Test Report by Eurofins. Classified B for all versions by Remade in Italy for recycled content and compliant with the requirements of the Italian CAM Decree 2022.

INSTRUCTIONS FOR DRY OR FRAME INSTALLATIONS

METAL STRUCTURE INSTALLATION

STEP 1

Separate the metal frame from the floor, from the ceiling, 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

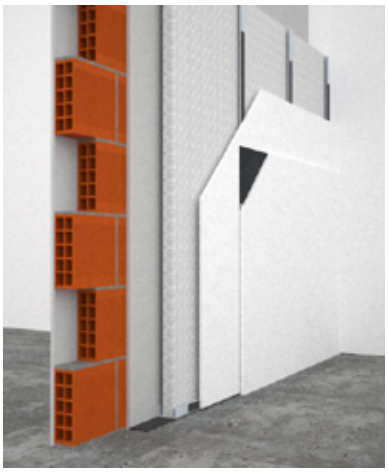
Position Isolmant Perfetto CG inside the metal frame, taking care to choose a suitable thickness (it is advisable to fill the gap to at least 80%).

INSTALLING PANELS

STEP 3

The 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. On the other side follow the same installation procedure.
To further improve performance, it is advisable to lay a sheet of Isolmant Isol-Gypsum Telogomma as a second sheet in the most suitable version according to installation standards.

INSTRUCTIONS FOR DRY METAL FRAME INSTALLATION OF LINING WALLS



METAL STRUCTURE INSTALLATION

STEP 1

Disjoint metal structure, flooring, ceiling, adjacent perimeter walls and plasterboard 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

Position Isolmant Perfetto CG inside the metal structure by selecting the suitable thickness (it is advisable to fill the air gap cavity to at least 80%).

INSTALLING PANELS

STEP 3

The 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. On the other side follow the same installation procedure.
To further improve performance, it is advisable to lay a sheet of Isolmant Isol-Gypsum Telogomma as a second sheet in the most suitable version according to installation standards.

INSTRUCTIONS FOR DRY METAL FRAME INSTALLATION OF FALSE 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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