ISOLMANT ISOLGYPSUM TELOGOMMA

WALL INSULATION WITH FALSE WALL ON METAL FRAME OR LINING WALL

The specific solution to improve the acoustic insulation of the false wall coupled with platerboard panel. The technology of Isolmant Telogomma is available in combination with four different types of plasterboard.

WHAT IS ISOLMANT ISOLGYPSUM TELOGOMMA?

Plasterboard sheet coupled with Isolmant Telogomma, a special elastodynamic EPDM rubber-based mass covering with mineral fillers. Its characteristics guarantee a high vibration damping, as well as an important acoustic insulation even at low frequencies. Specific solution to enhance the acoustic insulation of the false wall in combination with a traditional plasterboard sheet.

SPECIFIC APPLICATIONS

High-performance acoustic insulation, to be installed with plugs directly on to the existing wall or screwed onto a metal frame as a single or second slab.

CAM MINIMUM ENVIRONMENTAL CRITERIA SUSTAINABLE

VOC FREE HEALTHY

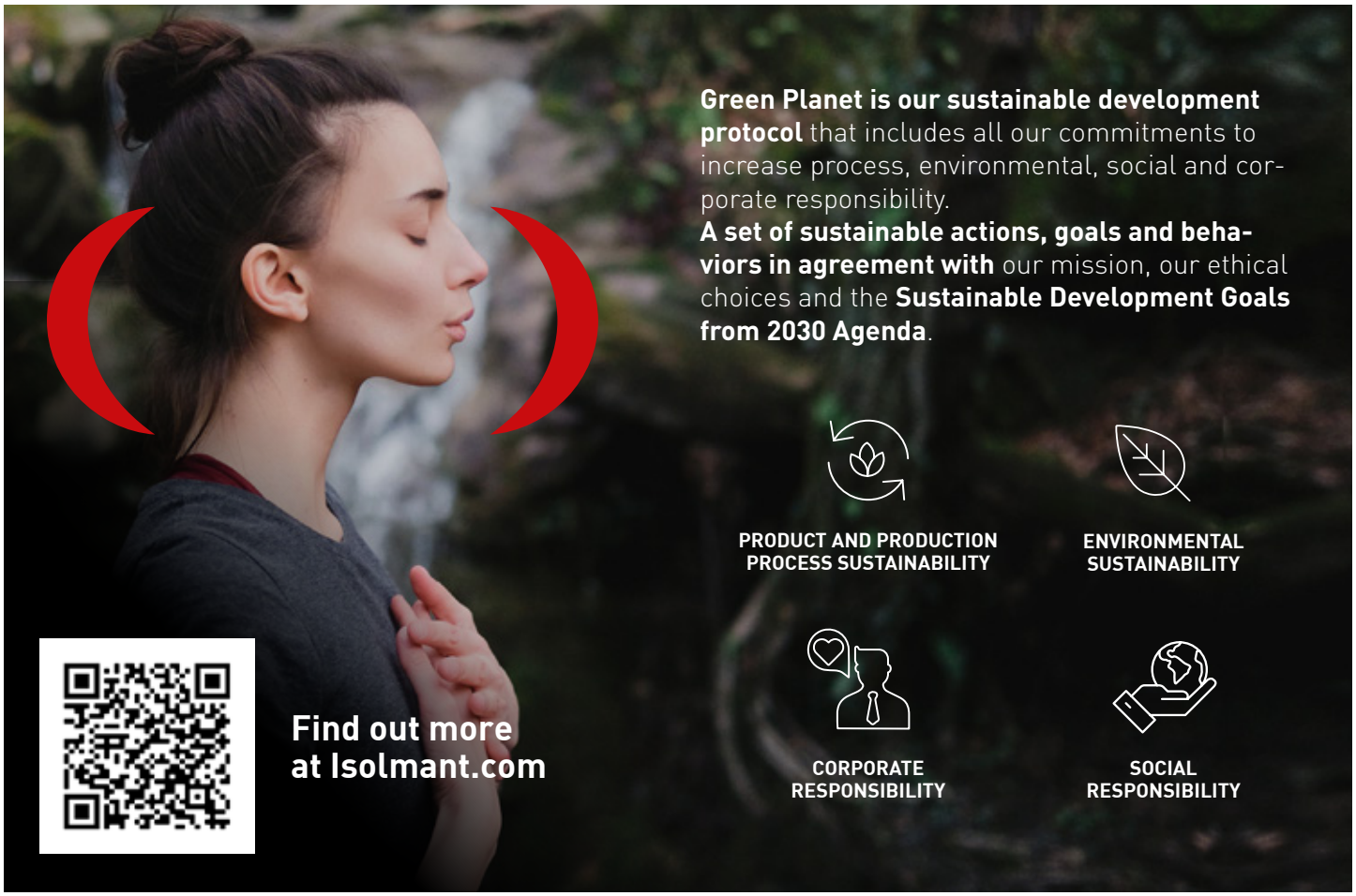
ECOLOGICAL

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.

GREEN FEATURES OF ISOLMANT ISOLGYPSUM TELOGOMMA

- **Sustainable.**
- **Environment friendly.**
- **Recyclable.**
- Environmentally friendly production.
- **Volatile Organic Compounds free (VOC A+).**
- Contributes to achieve credits for the environmental certification of a building according to **LEED or ITACA standards.**

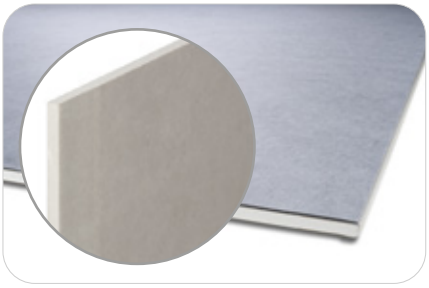
Complies with the requirements defined by the Italian CAM Edilizia for acoustic and thermal insulation materials regarding the request for high acoustic insulation performance, the percentage of recycled material and the absence of hazardous substances.



ADVANTAGES

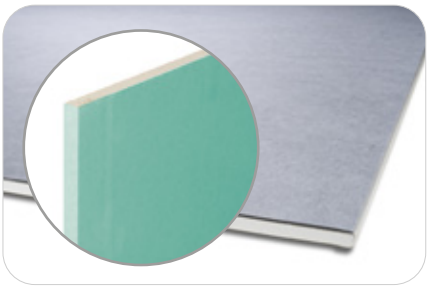
- High acoustic and thermal insulation.
- High mechanical resistance.
- Unalterable over time.
- Unlimited durability.
- Non-toxic and non-allergenic.
- Easy installation.

IsolGypsum Telogomma is Isolmant's heavy layer made from a special compound EPDM rubber-based plaster with mineral fillers and a surface density of 4 kg/m² suitable for enhancing soundproofing in lightweight structures, it becomes the ideal product as a second slab in double slab structures. Its technical characteristics guarantee high vibration damping, as well as significant soundproofing even at low frequencies.



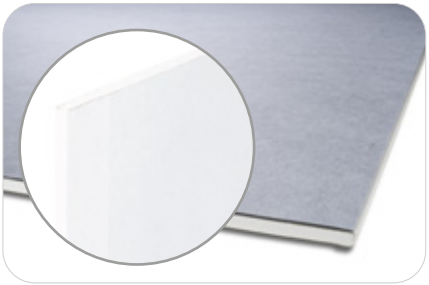
IsolGypsum Telogomma **STANDARD**

Isolmant Telogomma coupled with a type A panel, consisting of a core of rehydrated hemihydrate gypsum, covered on both sides with cellulosic material acting as external reinforcement.



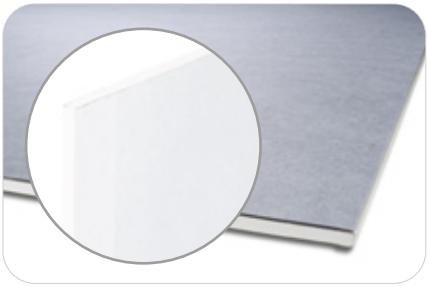
IsolGypsum Telogomma **IDRO**

Isolmant Telogomma coupled with a H2 type panel, which can be used in humid environments such as bathrooms. The sheet is characterised by very low water absorption and excellent sealing at high humidity levels. Green cardboard coating on the visible side.



IsolGypsum Telogomma **D+ SALUS**

Isolmant Telogomma coupled with a D-type panel, with a higher density core and gypsum with glass fibre additives, giving the product a high degree of surface hardness and mechanical strength. Thanks to Activ'Air® technology, the panel can absorb and neutralise up to 70 % of the formaldehyde in indoor air.



IsolGypsum Telogomma **D+ RESISTO**

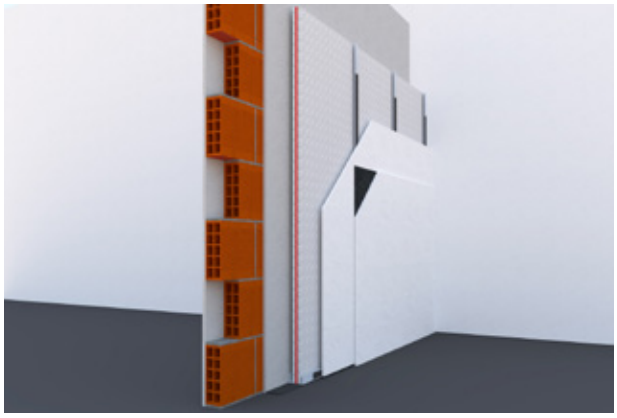
Isolmant Telogomma coupled with a D-type panel, with a higher density core and gypsum with glass fibre additives, giving the product a high degree of surface hardness and mechanical strength. Ideal where high mechanical strength, load bearing capacity and impact resistance are required. It contributes to increased soundproofing and reaction to fire features.

		ISOLGYPSUM SPECIAL STANDARD	ISOLGYPSUM SPECIAL IDRO	ISOLGYPSUM SPECIAL D+ SALUS	ISOLGYPSUM SPECIAL D+ RESISTO
NOMINAL THICKNESS:		14.5 mm	14.5 mm	14.5 mm	14.5 mm
WEIGHT:		13.2 kg/m^2	13.8 kg/m^2	14.2 kg/m^2	16.3 kg/m^2
THERMAL CONDUCTIVITY:		λ = 0.21 W/mK (panel) λ = 0.278 W/mK (isulating layer)			
THERMAL RESISTANCE:		Rt = 0.067 m2K/W			
RESISTANCE FACTOR TO VAPOR DIFFUSION - dry field		μ = 10 (panel) μ = 7188 (insulating layer)			
DIFFUSION EQUIVALENT AIR LAYER THICKNESS:		Sd = 14.5 m			
ACOUSTIC IMPROVEMENT INSTALLATION WITH PLASTERBOARD PARTITION*:		ΔR_w = 17 dB	ΔR_w = 17 dB	ΔR_w = 19 dB	ΔR_w = 21 dB
SUPERFICIAL WIDTH		1200 mm	1200 mm	1200 mm	1200 mm
LENGTH		2000 mm custom heights on request	2000 mm custom heights on request	2000 mm custom heights on request	2000 mm custom heights on request
OFF SQUARE		< 2.5 mm/m	< 2.5 mm/m	< 2.5 mm/m	< 2.5 mm/m
PANEL TYPE:		TYPE A	TYPE H2	TYPE D I	TYPE D F I R
EDGES	**Longitudinal**	thinned edge	thinned edge	thinned edge	thinned edge
	Head	straight edge	straight edge	straight edge	straight edge
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.			

ITEM SPECIFICATIONS

Massive elasto-dynamic insulation layer based on special compound EPDM rubber with mineral fillers, surface density 4 kg/m^2, thickness 2 mm, coupled with 12.5 mm thick plasterboard, type A, D, H2 (type IsolGypsum Telogomma S/SI/D+R/D+S). Nominal thickness 14.5 mm.

STRUCTURES (1)

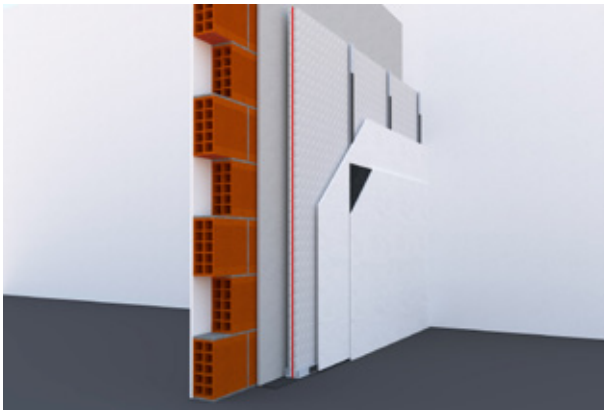


R_w = 55 dB

ITC test report no. 3518 / RP / 02

False wall, on perforated 8 cm plastered on both sides, consisting of a 5 cm metal frame with Isolmant Polifibra Bloccarumore interposed in the air gap and to close double plate of which the second IsolGypsum Telogomma Standard

STRUCTURES (2)

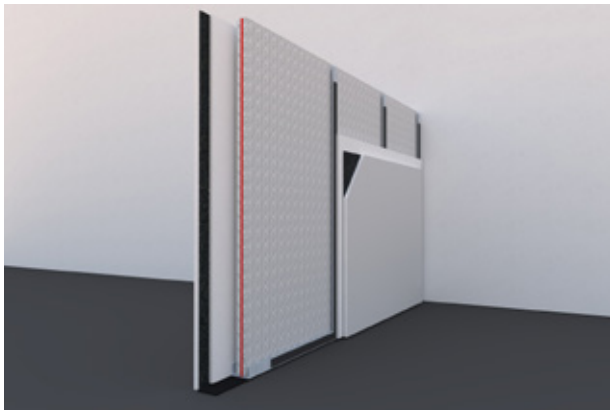


R_w = 57 dB

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

False wall, on perforated 12 cm plastered on both sides, consisting of a 5 cm metal frame with Isolmant Polifibra Bloccarumore interposed in the air gap and to close double plate of which the second IsolGypsum Telogomma Standard.

STRUCTURES (3)



R_w = 56 dB

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

Lining wall made of a 5 cm framework with Isolmant Polifibra Bloccarumore inside and covered with a double slab in which the second is IsolGypsum Telogomma Standard.

INSTRUCTIONS FOR ACOUSTIC LIGHT WALLS INSTALLATION ON METAL FRAME

INSTALLING THE METAL FRAMEWORK

STEP 1

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

POSITIONING THE INSULATION

STEP 2

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

POSITIONING THE PANELS

STEP 3

Best results are obtained with light walls containing at least 4 panels. 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. 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. Follow the same installation procedure on the other side. To further improve performance, it is advisable to lay a sheet of Isolmant IsolGypsum Telogomma as a second sheet in the most suitable version according to installation standards.

1. Lastra IsolGypsum Telogomma
2. Plasterboard
3. Isolmant Fascia Tagliamuro IsolGypsum
4. Metal framework
5. Pannello in Fibtec Isolmant Perfetto CG
6. Isolmant Nastro Orditura Cartongesso
7. Plasterboard
8. Lastra IsolGypsum Telogomma

INSTRUCTIONS FOR ACOUSTIC FALSE WALLS INSTALLATION ON METAL FRAME

INSTALLING THE METAL FRAME

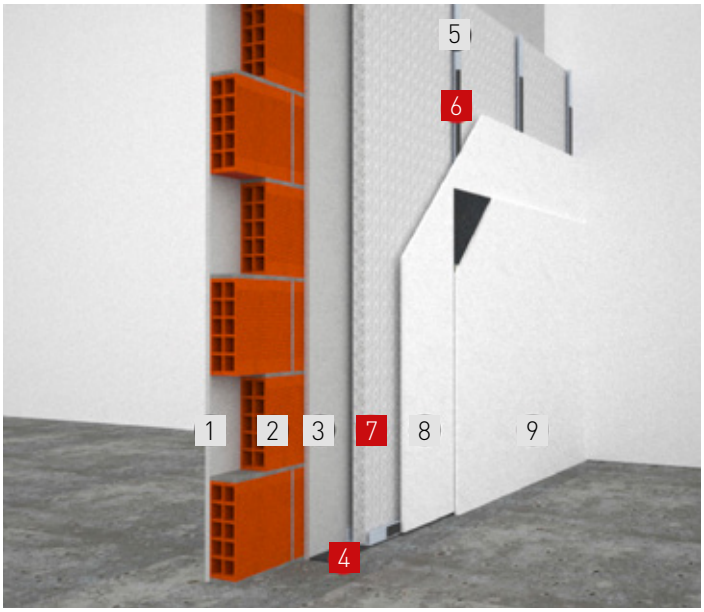
STEP 1

Separate the metal frame from the floor, from the ceiling/slab from the adjacent perimeter walls and from the plasterboard sheets adjacent to it by applying Isolmant Nastro Orditura Cartongesso 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 ISOLGYPSUM TELOGOMMA

STEP 2

Proceed to place the IsolGypsum Telogomma sheet on the metal frame by screwing it with the use of self-drilling screws
with a nail point, then taking care to seal and fill all the joints between slab and slab in a workmanlike manner, like all joints between slabs and walls and between slabs and ceiling.
During installation, each slab must be checked for verticality (using a spirit level) and flatness to ensure perfect alignment with the floor and ceiling tracks. Flatness may be achieved by lightly tapping the panels on the outer surface with the hand or using a metal ruler of suitable length so as to even out the crushing of the glue or sealing adhesive. It will then be necessary to carefully place the adjacent panels next to each other to prevent the adhesive mortar from leaking out, thus eliminating thermal and/or acoustic bridges, and to wait for the adhesive to set before proceeding with sealing and grouting the joints.



1. Plaster
2. Existing masonry
3. Plaster
4. Isolmant Fascia Tagliamuro IsolGypsum
5. Metal framework
6. Isolmant Nastro Orditura Cartongesso
7. Pannello in Fibtec Isolmant Perfetto CG
8. Plasterboard
9. Lastra IsolGypsum Telogomma

INSTRUCTIONS FOR ACOUSTIC FALSE CEILINGS INSTALLATION ON METAL FRAME

INSTALLING THE METAL FRAMEWORK

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 ISOLGYPSUM TELOGOMMA

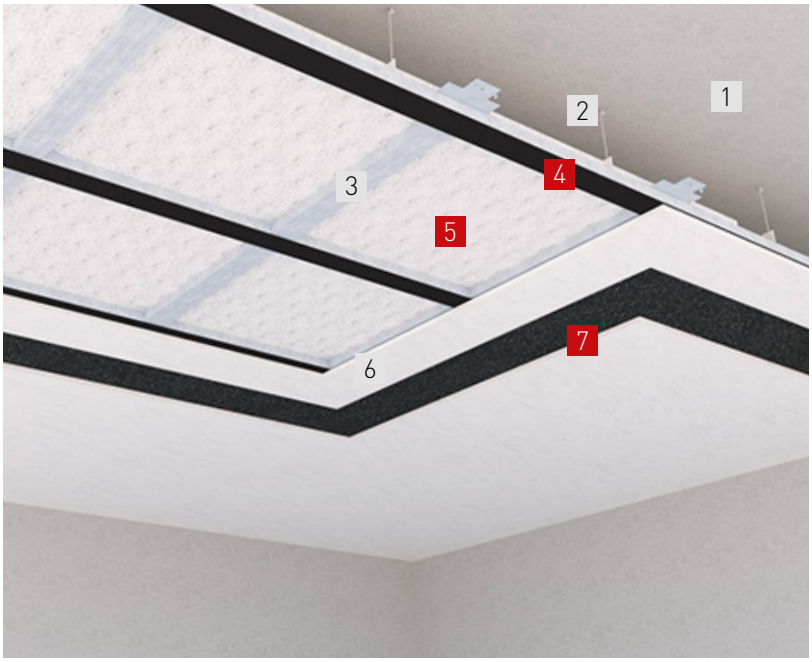
STEP 2

Proceed to place the IsolGypsum Telogomma sheet on the metal frame by screwing it with the use of self-drilling screws
with a nail point, then taking care to seal and fill all the joints between slab and slab in a workmanlike manner, like all joints between slabs and walls and between slabs and ceiling.

INSTALLING PANELS

STEP 3

After installing panels, it will be necessary to install the first coated plasterboard and carefully seal and grout all joints between panels as well as all joints between panels and walls and between panels and ceiling.



1. Slab
2. Anti-vibration pendants
3. Metal framework for the false ceiling
4. Isolmant Nastro Orditura Cartongesso
5. Pannello in Fibtec Isolmant Perfetto CG
6. Plasterboard

ISOLMANT ISOLGYPSUM TELOGOMMA > SIZE

ITEM	DESCRITION	SIZE	PACKAGE
GYPS13RBEPDM248	IsolGypsum Telogomma S	1.2 m x 2.0 m (2.4 m^2) (plaster)	48 m^2 (pallet with 20 panels)
GYPSWP13RB2M248	IsolGypsum Telogomma SI	1.2 m x 2.0 m (2.4 m^2) (plaster)	48 m^2 (pallet with 20 panels)
GYPAAEPDM2M248	IsolGypsum Telogomma D+S	1.2 m x 2.0 m (2.4 m^2) (plaster)	48 m^2 (pallet with 20 panels)
GYPHFEPDM2M248	IsolGypsum Telogomma D+R	1.2 m x 2.,0 m (2.4 m^2) (plaster	48 m^2 (pallet with 20 panels)

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