
ISOLGOMMA
SILENCE MAKERS
SINGLE WALL
PLASTERBOARD WALL
MUSTWALL B
High-performance acoustic insulation

Benefits

High insulation efficiency

Dry construction systems allow the integration of specific sound-insulating materials that provide excellent performance against airborne and impact noise.

Fast installation

Dry construction significantly reduces installation times compared with traditional methods. Acoustic insulation can be easily integrated into the build-up without requiring drying time.

Design flexibility

Wall build-ups can be customised according to acoustic requirements, including in renovation projects, using lightweight, reversible and minimally invasive solutions.

Greater environmental sustainability

Dry construction systems, combined with recycled or recyclable acoustic insulation, help reduce the environmental impact of the building and improve overall energy and acoustic performance.

*The**Greennovation***

90%

di prodotti riciclati.

Acoustic insulation for single-leaf and plasterboard walls

MUSTWALL B: acoustic comfort and high performance in minimal space.

At Isolgomma, for over 50 years, we have been committed to designing innovative acoustic insulation solutions, combining elegance, functionality and practicality to meet the needs of designers, installers and end users.

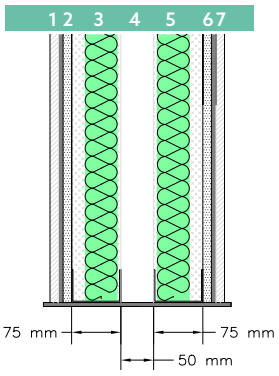
MUSTWALL B is the coupled plasterboard-and-rubber solution designed to improve the acoustic insulation of walls in both new buildings and renovation projects.
Thanks to its reduced thickness and high sound-insulation performance across all frequencies, it effectively reduces noise transmission without taking valuable space away from rooms. Practical and quick to install, it combines functionality, acoustic comfort and ease of installation in a single panel.

Wall with air cavity

The solution for high-performance partition walls



Final condition	R_w (dB)	U (W/m²k)
MUSTWALL 18B	70	0.247



In new buildings, especially when lightweight partition walls are used between adjacent rooms, it is essential to limit the transmission of airborne noise such as voices, television and other everyday sounds. This solution is suitable where there is enough space for a double metal frame and good acoustic insulation is required without using heavy systems. The air cavity separates the two frames and limits vibration transmission, while FYBRO 50 and MUSTWALL 18B panels improve the acoustic performance of the entire wall. The system is lightweight, versatile and quick to install, making it ideal for homes, offices and hospitality buildings.

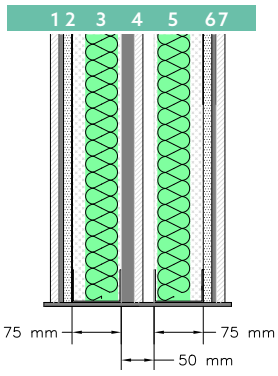
1. MUSTWALL 18B acoustic insulation panel
2. Plasterboard layer 12.5 mm th.
3. Metal frame for plasterboard, 75 mm th. with FYBRO 50 acoustic and thermal insulation
4. Air cavity
5. Metal frame for plasterboard, 75 mm th. with FYBRO 50 acoustic and thermal insulation
6. Plasterboard layer 12.5 mm th.
7. MUSTWALL 18B acoustic insulation panel

Wall with air cavity

The solution for high-performance partition walls



Final condition	R_w (dB)	U (W/m²k)
MUSTWALL 15B + MUSTWALL 33B	75	0.234



In new buildings, especially when lightweight partition walls are used between adjacent rooms, it is essential to limit the transmission of airborne noise such as voices, television and other everyday sounds. This solution is suitable where there is enough space for a double metal frame and good acoustic insulation is required without using heavy systems. The air cavity separates the two frames and limits vibration transmission, while FYBRO 50 and MUSTWALL 18B panels improve the acoustic performance of the entire wall. The system is lightweight, versatile and quick to install, making it ideal for homes, offices and hospitality buildings.

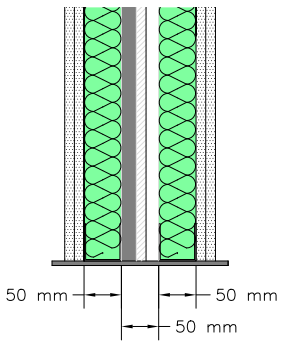
1. MUSTWALL 15B acoustic insulation panel
2. Plasterboard layer 12.5 mm th.
3. Metal frame for plasterboard, 75 mm th. with FYBRO 50 acoustic and thermal insulation
4. MUSTWALL 33B acoustic insulation panel
5. Metal frame for plasterboard, 75 mm th. with FYBRO 50 acoustic and thermal insulation
6. Plasterboard layer 12.5 mm th.
7. MUSTWALL 15B acoustic insulation panel

Wall with air cavity

The solution for robust walls with high acoustic insulation



Final condition	R_w (dB)	U (W/m²k)
MUSTWALL 33B	68	0.271

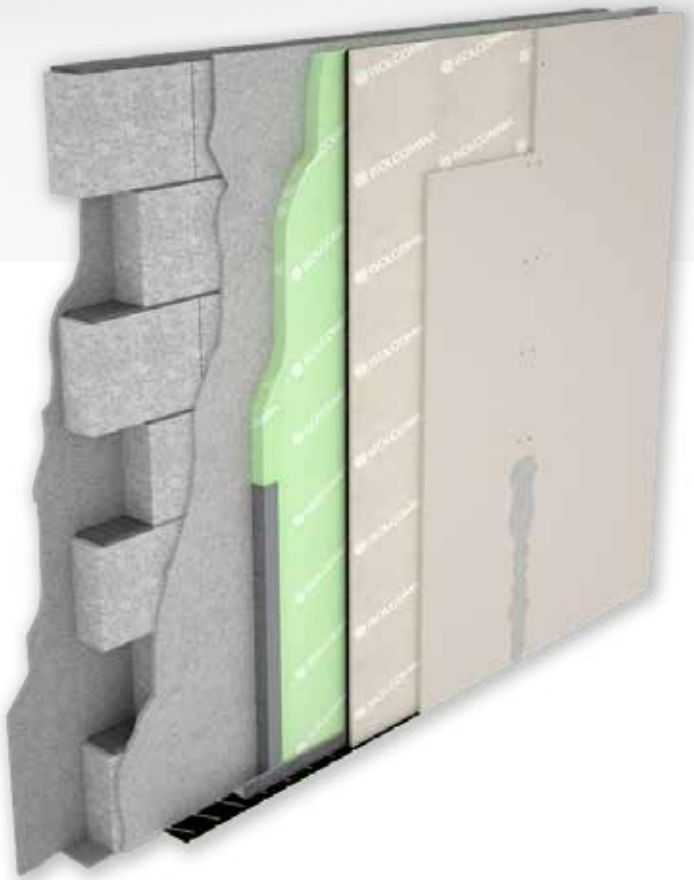


This wall build-up is suitable where, in addition to acoustic insulation, greater solidity, stability and resistance are required than with a traditional plasterboard system. It can be used in buildings where internal partitions must provide greater privacy and a stronger perception of robustness. MUSTWALL 33B, installed between the two metal frames insulated with FYBRO 50, increases the mass and damping capacity of the wall. The double plasterboard layers on both sides complete the system, improving noise control even at the most critical frequencies. This solution is suitable for offices, meeting rooms, hotel rooms and healthcare facilities.

1. Double plasterboard layer 12.5 mm th., total thickness 25 mm
2. Metal frame for plasterboard, 50 mm th. with FYBRO 50 acoustic and thermal insulation
3. MUSTWALL 33B acoustic insulation panel
4. Metal frame for plasterboard, 50 mm th. with FYBRO 50 acoustic and thermal insulation
5. Double plasterboard layer 12.5 mm th., total thickness 25 mm

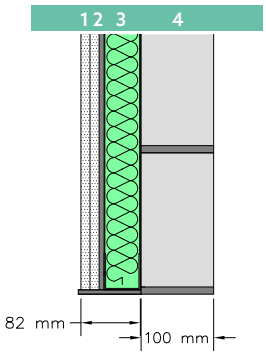
Cellular concrete wall

Combination of wall linings



Initial condition	R_w (dB)	U (W/m²k)
Wall	41	1.422

Final condition	R_w (dB)	U (W/m²k)
MUSTWALL 15B	65	0.464



For acoustically weak walls, or where a significant increase in airborne sound insulation is required, the ideal solution is a metal frame with fibrous material combined with rubber–plasterboard coupled panels. This combination acts effectively over a wide frequency range, providing high acoustic insulation against both low- and high-frequency noise. The result is a quieter, more comfortable environment, ideal for improving quality of life or for spaces dedicated to high-quality audio.

1. Plasterboard layer 12.5 mm th.
2. MUSTWALL 15B acoustic insulation panel
3. FYBRO 50 acoustic and thermal insulation
4. Cellular concrete wall, 100 mm th.

MUSTWALL B: a component for advanced wall build-ups

Acoustic insulation for single-leaf and plasterboard walls

MUSTWALL B is a high-performance pre-coupled acoustic panel that combines practicality with fast installation. It consists of a low-density rubber layer made from a special blend of recycled granules and fibres sourced from ELTs, coupled with a plasterboard panel.
Its versatility makes it ideal for renovation and acoustic remediation of existing spaces, eliminating the need for demolition, masonry alterations or metal substructures, with an effective, fast and sustainable result.



APPLICATION FIELDS

- Music rooms and recording studios
- Theatres, cinemas and cultural spaces
- Offices and meeting rooms
- Healthcare and hospitality

Technical characteristics		MUSTWALL 15B	MUSTWALL 18B	MUSTWALL 33B
Thickness	mm	15	20	33
Dimensions	mm	1200 x 2000	1200 x 2000	1200 x 2000
Mass per unit area	kg/m³	11.5	14.5	19.5
Thermal resistance (R)	m² K/W	0.085	0.127	0.229
Mass per unit area	Classe	B - s1, d0		

MUSIC ROOMS AND RECORDING STUDIOS

- Containment of high sound-pressure sources
- Effective management of low frequencies
- Reduction of flanking and structure-borne transmission

THEATRES, CINEMAS AND CULTURAL SPACES

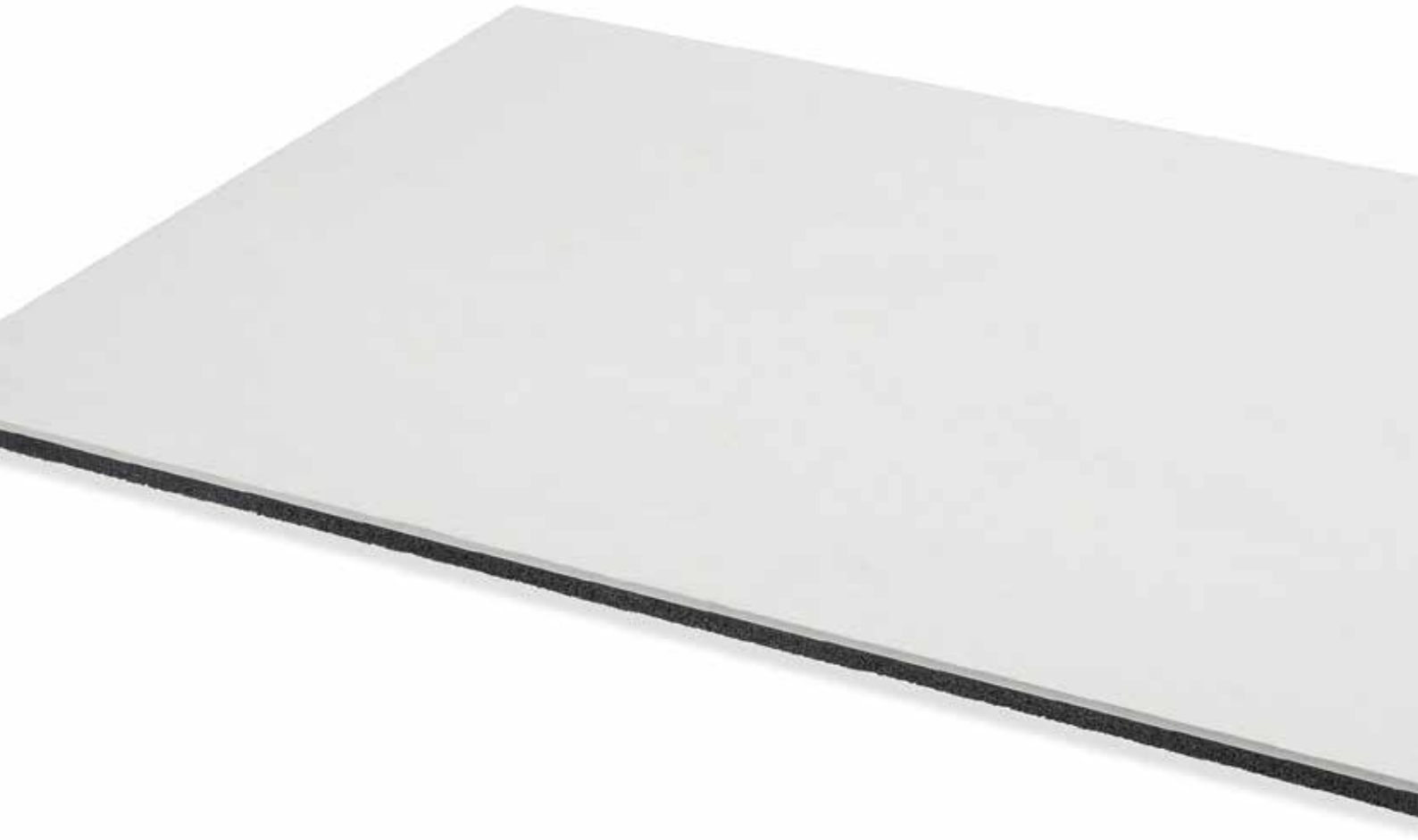
- Acoustic separation between adjacent rooms
- Compatibility with high-fidelity audio systems and subwoofers
- No sound interferenc even at high volume

OFFICES AND MEETING ROOMS

- Maximum level of privacy
- Protection of conversations and sensitive data
- Acoustic comfort in professional environments

HEALTHCARE AND HOSPITALITY

- Insulation from departments and building services
- Improved comfort for patients and guests
- Ideal for patient rooms and premium suites



PERFORMANCE COMPARISON

FEATURE	TRADITIONAL DRYWALL	ADVANCED WALL BUILD-UP integrated system)
Tactile response	Hollow feel and local deflection under pressure.	Perceived solidity comparable to solid masonry.
Passive security	Easily penetrated using common cutting tools.	High resistance to mechanical break-through (rubber core).
Insulation at 80–100 Hz	Critical and weak due to cavity resonance.	Excellent thanks to the damping provided by the MUSTWALL compound.

ANTI-INTRUSION

Resistance to cutting and break-through

Alternating layers of plasterboard, rubber and metal hinder cutting and penetration, providing a passive anti-intrusion barrier.

RIGID STRENGTH

Heavy-load capacity

The higher density of the wall core stabilises the structure and improves the anchoring of complex suspended loads.

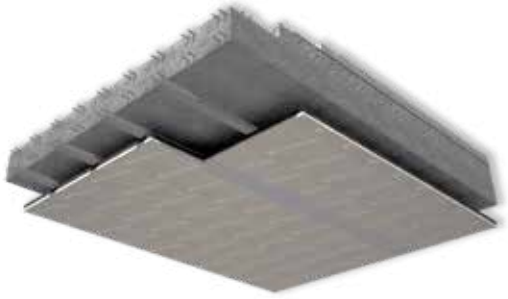
MUSTWALL B: other possible applications

The same performance in different construction systems

MUSTWALL B panels are high-performance products designed to provide acoustic insulation, versatility and fast installation. In addition to plasterboard partitions, they can be effectively integrated into a wide range of construction systems, improving acoustic comfort in both new buildings and renovation projects.

False ceiling

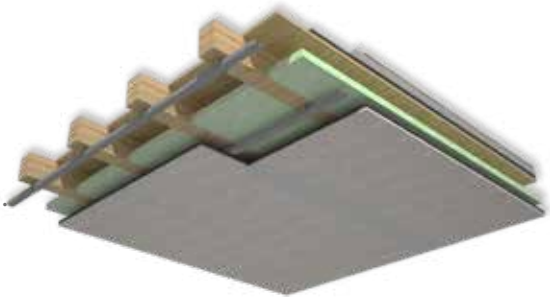
Where existing floors have acoustic shortcomings and available height is limited, a direct-fix application with MUSTWALL B improves control of airborne and impact noise while preserving useful internal space.



- Improves insulation against airborne and impact noise.
- Reduced thickness, ideal where available space is limited.
- Fast, clean installation without invasive work.

False ceiling

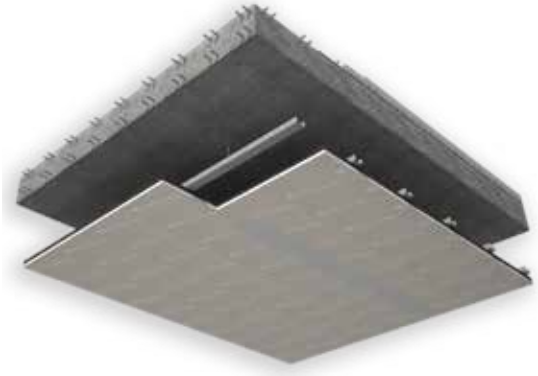
Where a timber floor has acoustic shortcomings, a continuous suspended ceiling can cover the beams and improve the performance of the system. MUSTWALL B, combined with fibrous material and decoupling elements, reduces airborne and impact noise.



- Covers the beams and creates a continuous, uniform surface.
- Reduces the transmission of airborne and impact noise.
- Migliora le prestazioni acustiche dei solai in legno.

Suspended ceiling

Where a void is required for services, inspections or maintenance, a suspended ceiling with MUSTWALL B combines improved acoustic performance with full technical integration.



- Leaves the service void free for systems and inspections.
- High acoustic performance.
- Ideal for residential, commercial and hospitality buildings.

Single wall

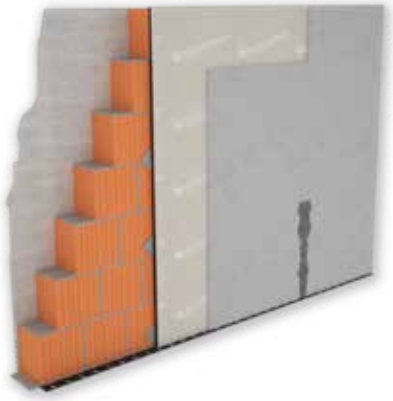
The lining is ideal for improving the acoustic insulation of historic solid-brick masonry. The combination of a thin elastic material and a pre-finished plasterboard panel improves performance without excessively reducing internal space.



- Increases the acoustic insulation of the existing wall.
- Can be applied to one or both sides.
- Lightweight and sustainable solution with low impact.

Single wall

A lining made from a plasterboard panel coupled with an elastic material improves the acoustic performance of single-leaf partition walls. An effective solution even when initial values are close to regulatory limits.



- Improves the acoustic insulation of the existing wall.
- Requires little space and limits the loss of usable floor area.
- Allows rapid intervention on only one side of the wall.

Key benefits to remember

✓ **Versatility**

One panel for many construction applications.

✓ **Renovation**

Ideal for upgrading existing buildings without demolition.

✓ **Low thickness**

High performance even with minimal thickness.

✓ **Integration**

Fully compatible with dry construction and building services.

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