ISOLGOMMA
SILENCE MAKERS



UNDER SCREED

HIGHMAT

Under screed acoustic insulation

Benefits

High acoustic insulation

Effectively reduces impact noise, improving living comfort.

Excellent mechanical stability

Maintains consistent performance even under high loads.

Acoustic and thermal insulation in a single solution

Thanks to its combination with polyester fibre, it helps improve thermal insulation and the overall performance of the floor.

*The**Greennovation***

90%

of recycled products.

Under-screed acoustic insulation

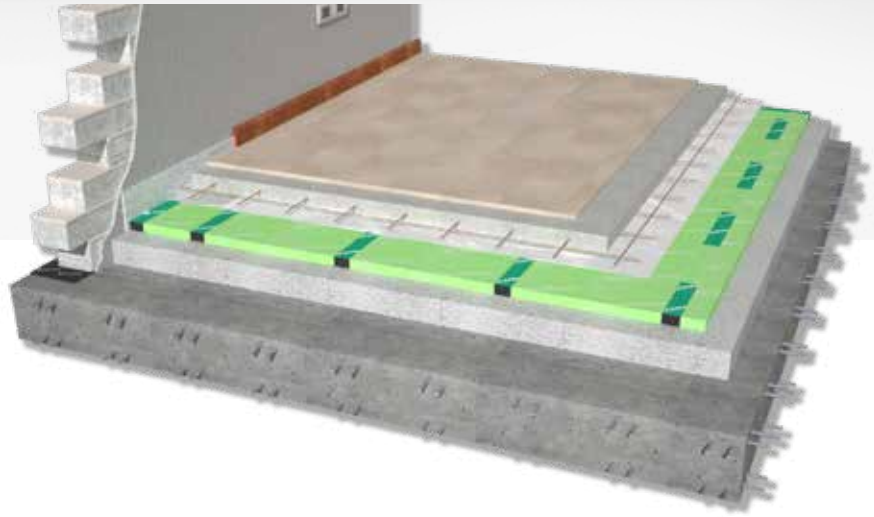
HIGHMAT: practicality, performance and living comfort.

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.

HIGHMAT is the solution designed to optimise the acoustic and thermal performance of floors while ensuring high mechanical stability of the system. Thanks to its specific structure and the elastic properties of the material, it is suitable for both dry applications and screed systems, effectively contributing to the reduction of impact noise and the improvement of overall living comfort.

Acoustic insulation in traditional construction

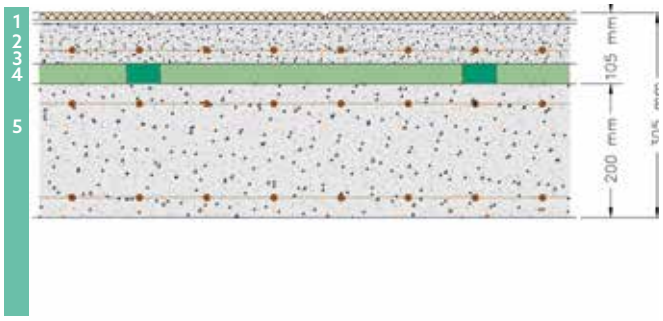
High-performance solution for premium buildings



Where maximum acoustic performance is required in floors to be renovated, impact sound insulation systems can be installed beneath thick screeds to achieve significant sound reduction. The combined use of fibrous and rubber-based materials makes it possible to exploit the complementary properties of the different elements, combining sound-absorbing and elastic characteristics.
This approach significantly improves impact noise reduction, airborne sound insulation and the thermal insulation of the floor, ensuring acoustic comfort and high performance in residential, commercial and industrial settings.

CONCRETE FLOOR

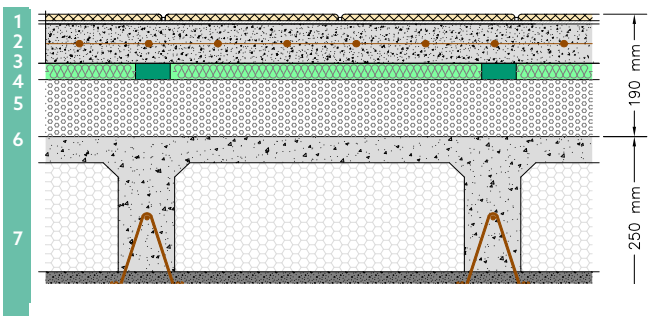
Product	$L_{n,w}$ (dB)	R_w (dB)
HIGHMAT 25	38	61
HIGHMAT 50	32	64



1. Floor finishing, 15 mm th.
2. Sand-cement or similar screed, 60 mm th.
3. Protection film
4. HIGHMAT thermal-acoustic insulation
5. Concrete slab, 200 mm th.

PREDALLES FLOOR

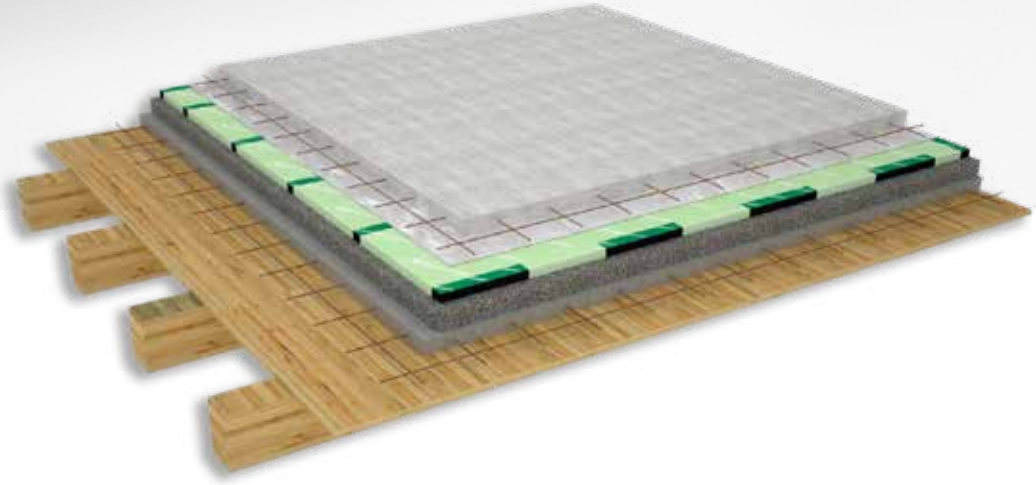
Product	$L_{n,w}$ (dB)	R_w (dB)
HIGHMAT 25	42	58
HIGHMAT 50	36	61



1. Floor finishing, 10 mm th.
2. Sand and cement floating screed, 100 mm th.
3. Protection film
4. HIGHMAT thermal-acoustic insulation
5. Levelling screed, 50 mm th.
7. Predalles slab, 250 mm thickness

Acoustic insulation in timber structures

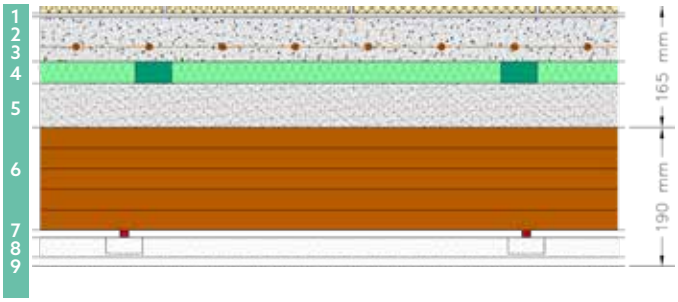
High-performance solution for lightweight floors



In lightweight floor structures, choosing the right acoustic insulation is essential to ensure a high level of living comfort. Thanks to its particular structure and excellent mechanical stability, HIGHMAT ensures effective and durable performance in both dry systems and wet-screed applications. Its resilient structure helps reduce the transmission of impact noise and vibrations, maintaining its characteristics even under load. The product's thermal properties complete the system performance, improving the overall efficiency of the floor build-up.

CLT FLOOR

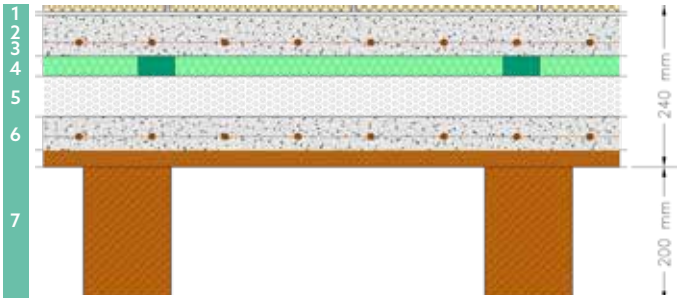
Product	$L_{n,w}$ (dB)	R_w (dB)
HIGHMAT 25	48	60
HIGHMAT 50	42	62



1. Floor finishing, 15 mm th.
2. Screed, 60 mm th.
3. Protective sheet
4. HIGHMAT thermal-acoustic insulation
5. Sand filling 60 mm th.
6. CLT floor, 140 mm th.
7. Anti-vibration brackets REDFIX C28
8. Steel profile 50/27/0.6
9. Plasterboard, 12,5 mm th.

TIMBER JOISTS FLOOR

Product	$L_{n,w}$ (dB)	R_w (dB)
HIGHMAT 25	53	56
HIGHMAT 50	49	58



1. Floor finishing, 15 mm thickness
2. Sand and cement boaded screed, 60 mm th,
3. Protective sheet
4. HIGHMAT thermal-acoustic insulation
5. Levelling scred 60 mm th.
6. Reinforced concrete, 50 mm th.
7. Timber joists floor, 200 mm th.

HIGHMAT: one solution, multiple applications

Under-screed acoustic and thermal insulation

HIGHMAT is a product developed to achieve extremely high levels of acoustic insulation in floors using a floating screed system. It consists of two recycled-rubber supports alternating with polyester fibre, assembled into individual panels that are laid directly on the floor before the reinforced screed is poured. The HIGHMAT system is ideal for achieving Class I performance on all floor types and is particularly suitable wherever superior acoustic comfort is required, both for impact sound insulation and airborne sound insulation. Suitable for all types of floors, it also increases thermal resistance with thicknesses compatible with standard construction technologies. Its acoustic properties also make it suitable for insulating rooms intended for listening to and reproducing music, as well as audio/video production studios.



APPLICATIONS FIELDS

- Technical rooms.
- Luxury residential buildings.
- Audio/video production studios.

Technical features		HIGHMAT	
Thickness	mm	25	50
Dimensions	mm	600 x 1000	
Mass per unit area	kg/m²	1,75	3,5
Dynamic stiffness s'	MN/m³	4	3
Impact sound pressure level attenuation ΔL_w	dB	36	42
Thermal conductivity coefficient (λ)	W/m K	0,040	
Compressibility c	mm	2,4	4,1
Reaction to fire		Class E	

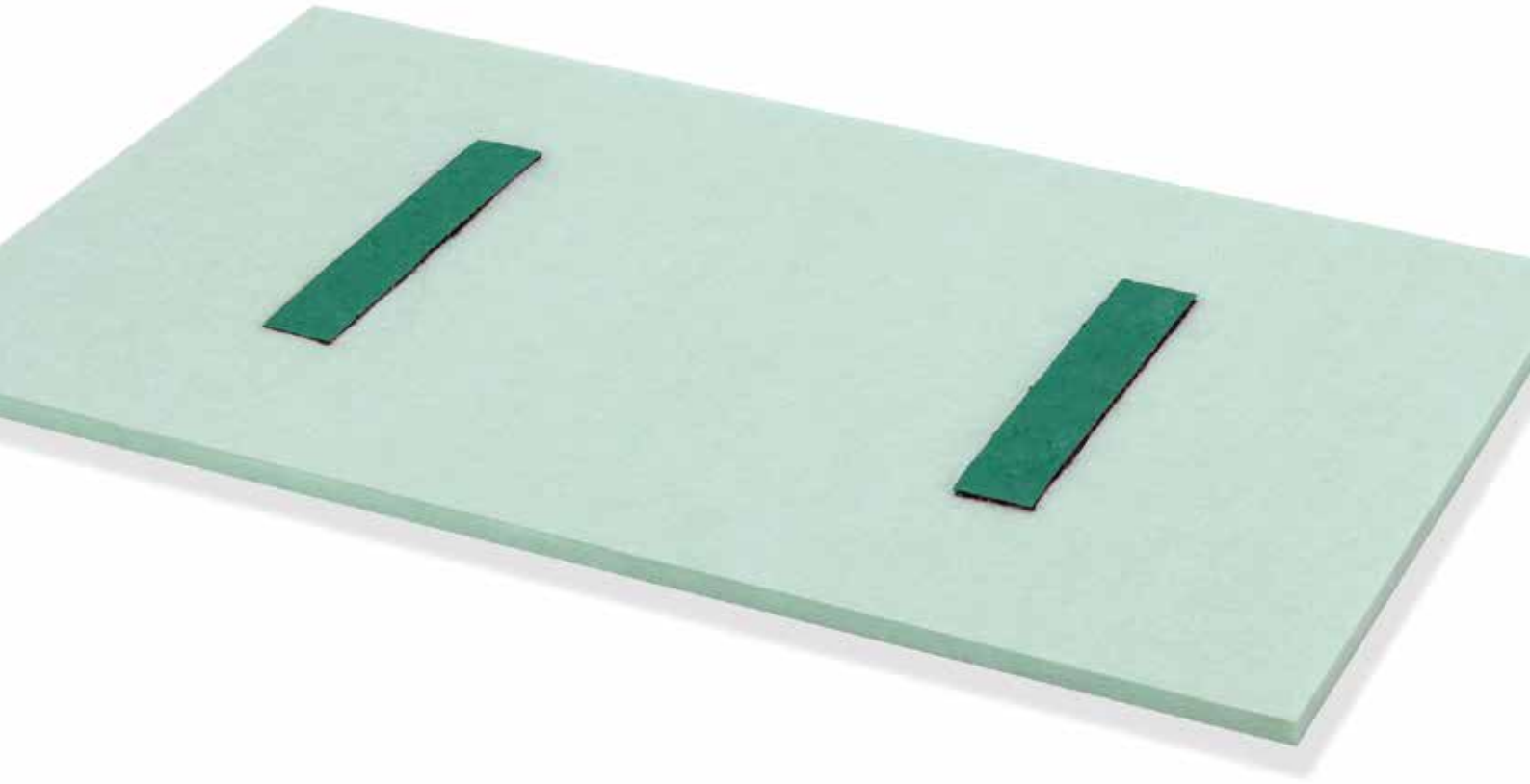


University of Ulster
Belfast, Ireland



HAVEP Headquarters
Goirle, Netherlands

UNDER SCREED



High performance in every detail

HIGHMAT's special structure combines elasticity, stability and thermal-acoustic insulation, providing a reliable and versatile solution for high-performance floors.

25 and 50 mm
Two thicknesses for different design requirements.

Easy to install
Lightweight panels designed for direct installation on the floor.

Long-lasting performance
High mechanical stability and consistent characteristics over time.

Discover all our solutions designed to ensure maximum acoustic comfort in residential and commercial environments.

isolgomma.com

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