ISOLGOMMA
SILENCE MAKERS



ACOUSTIC INSULATION

TIMBER STRUCTURES

Benefits

High impact sound insulation
These solutions effectively reduce noise generated by footsteps, improving living comfort in timber buildings.

Compatibility with underfloor heating systems
Acoustic insulation can also be integrated with underfloor heating systems, maintaining high performance without compromising functionality.

Cost-effective construction
The high level of prefabrication and dry assembly reduce construction times and site costs compared to traditional building methods.

Environmental sustainability
The use of recycled or low-impact materials provides effective acoustic insulation with an environmentally friendly approach.

*The**Greennovation***

90%

of recycled products.

Acoustic Insulation

There are many kinds of silence. Let us introduce you to ours.

Living in harmony with the surrounding environment is a fundamental right, and noise plays a significant role in the perception of well-being. To improve people's quality of life, at Isolgomma we offer solutions for acoustic insulation and vibration control in homes, commercial buildings, production facilities and infrastructure.

Our solutions are the result of a constant commitment to innovation and to the provision of services dedicated to developing a culture of acoustic well-being. This path is marked not only by significant investment in research and development, but above all by consulting and training activities for our customers.

High standard

Tested and guaranteed living comfort, from first-hand experience.

In Europe, minimum requirements for acoustic conditions in new dwellings are specified in building regulations. Different acoustic limits define impact sound and airborne sound insulation, noise levels from technical installations and traffic, as well as other acoustic and noise-related aspects.
Sound classification schemes have been adopted by several countries to define different levels of acoustic quality in dwellings.
Therefore, acoustic requirements for a dwelling can be specified either as the legal minimum requirements or as a specific class within a classification scheme. Classes higher than the regulatory minimum requirements may be requested as an option for new housing. For existing housing, especially for renovated housing, it is often not realistic to comply with current regulations and thus there is also a need for lower classes to enable specification of performance class for such housing.



PERFORMANCE STANDARDS IMPACT SOUND INSULATION BETWEEN DWELLINGS MAIN REQUIREMENTS EUROPEAN COUNTRIES

Country	Descriptor	Multi-storey housing dB	Row housing dB
Austria	$L'_{nT,w}$	≤ 48	≤ 43
Belgium	$L'_{nT,w}$	≤ 52	≤ 48
Bulgaria	$L'_{n,w}$	≤ 53	≤ 53
Denmark	$L'_{n,w}$	≤ 53	≤ 53
England & Wales	$L'_{nT,w}$	≤ 62	None
Estonia	$L'_{n,w}$	≤ 53	≤ 53
France	$L'_{nT,w}$	≤ 58	≤ 58
Ireland	$L'_{nT,w}$	≤ 58	None
Northern Ireland	$L'_{nT,w}$	≤ 62	None
Latvia	$L'_{n,w}$	≤ 54	≤ 54
Luxembourg	$L'_{n,w}$	≤ 52	≤ 45
Netherlands	$L'_{nT,w} + C_1$	≤ 54	≤ 54
Poland	$L'_{n,w}$	≤ 58	≤ 53
Portugal	$L'_{nT,w}$	≤ 60	≤ 60
Scotland	$L'_{nT,w}$	≤ 56	None
Spain	$L'_{nT,w}$	≤ 65	≤ 65
Switzerland	$L'_{nT,w} + C_1$	≤ 58	≤ 50

PERFORMANCE STANDARDS AIRBORNE SOUND INSULATION BETWEEN DWELLINGS MAIN REQUIREMENTS EUROPEAN COUNTRIES

Country	Descriptor	Multi-storey housing dB	Row housing dB
Austria	$D_{nT,w}$	≥ 55	≥ 60
Belgium	D_A	≥ 54	≥ 58
Bulgaria	R'_W	≥ 53	≥ 53
Denmark	R'_W	≥ 55	≥ 55
England & Wales	$D_{nT,w} + C_{Tr}$	≥ 45	≥ 45
Estonia	R'_W	≥ 55	≥ 55
France	$D_{nT,w} + C$	≥ 53	≥ 53
Ireland	$D_{nT,w}$	≥ 53	≥ 53
Northern Ireland	$D_{nT,w} + C_{Tr}$	≥ 45	≥ 45
Latvia	R'_W	≥ 54	≥ 54
Luxembourg	$R'_W + C$	≥ 51	≥ 56
Netherlands	$R'_W + C$	≥ 52	≥ 52
Poland	$R'_W + C$	≥ 50	≥ 52
Portugal	$D_{nT,w}$	≥ 50	≥ 50
Scotland	$D_{nT,w}$	≥ 56	≥ 56
Spain	$D_{nT,A} \approx D_{nT,w} + C$	≥ 50	≥ 50
Switzerland	$D_{nT,w} + C$	≥ 52	≥ 55

In 2008, Isolgomma S.r.l. set up an acoustics laboratory featuring unique technical and performance characteristics for measuring the sound insulation of walls and floors.
Developed in collaboration with the Department of Technical Physics at the University of Padua, the laboratory was designed and built in accordance with the requirements set out in the ISO 140-1 standard.

In addition to acoustic chambers, the laboratory is equipped with instruments for carrying out tests on small samples.







Our laboratory allows us to carry out tests in compliance with current technical standards.

- Dynamic stiffness UNI EN 29052-1
- Thickness and compressibility UNI EN ISO 29770
- Compression UNI EN ISO 29469
- Creep UNI EN 1606
- Reaction to fire UNI EN 11925-1


UNDER
SCREED



Impact sound insulation rolls and panels.

Our acoustic insulation solutions for timber structures offer high performance in reduced thicknesses, making them ideal for both new buildings and renovation projects.
They are designed to effectively reduce impact and footstep noise, improving living comfort without compromising usable space. Easy installation and the use of recycled materials contribute to a sustainable and cost-effective approach.

90% recycled material

Certified recycled raw material

Excellent environmental performance

Certified quality

PRODUCT			*pg.*
PANELS	HIGHMAT	High-performance thermal-acoustic insulation, made with polyester fibre and supports in rubber from ELTs	*8*
	BIFLOOR	High-performance thermal and acoustic insulation, made with polyester fibre and rubber from ELTs	*16*
ROLLS	UPGREI	High-performance acoustic and thermal impact insulation, made with EPDM rubber granules	*12*
	GREI	High-performance acoustic insulation, made with rubber from ELTs and EPDM rubber granules	*18*
	SYL AD	Acoustic insulation with extremely high mechanical resistance, made with rubber from ELTs	*20*

Impact sound insulation panels **HIGHMAT**

High-performance thermal-acoustic insulation for floating screeds

HIGHMAT is a product developed to achieve extremely high levels of acoustic insulation in floor slabs using a floating screed system. It consists of two recycled rubber supports alternating with polyester fibre, assembled into individual panels that must be placed directly on the floor slab before the reinforced screed is poured.
The HIGHMAT system is ideal for achieving Class I performance on all types of floor slabs and is particularly suitable for applications requiring superior acoustic comfort, for both impact sound insulation and airborne sound insulation. It is suitable for all types of floor slabs and also increases thermal resistance, with thicknesses compatible with standard construction technologies.
Thanks to its acoustic properties, it is also suitable for the sound insulation of rooms intended for music listening and playback, as well as audio/video production studios.

APPLICATION FIELDS

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



Technical features		HIGHMAT		
Thickness	mm	20	30	50
Dimensions	mm	600 x 1000		
Mass per unit area	kg/m²	1,65	1,9	3,5
Dynamic stiffness s'	MN/m³	10	4	5
Impact sound pressure level attenuation ΔL_w	dB	34	36	39
Thermal conductivity coefficient (λ)	W/mK	0,040		
Compressibility c	mm	2,0	3,8	3,0
Reaction to fire		Class E		

TECHNICAL DATA SHEETS
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ACCESSORIES



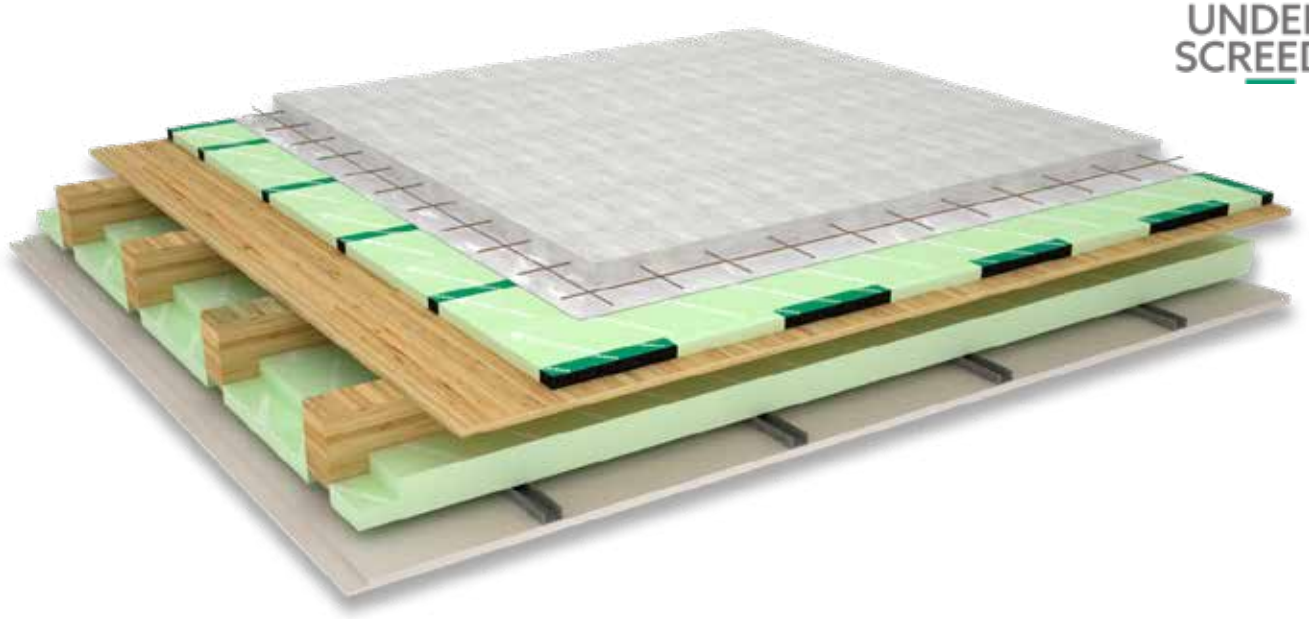
PROFYLE FLAT
0,8 - 1,2 m per m²
of floor surface

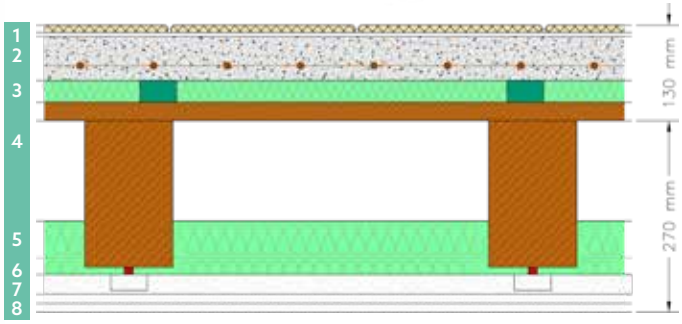


REDFIX



SIDE HIGHMAT
0,8 - 1,2 m per m²
of floor surface

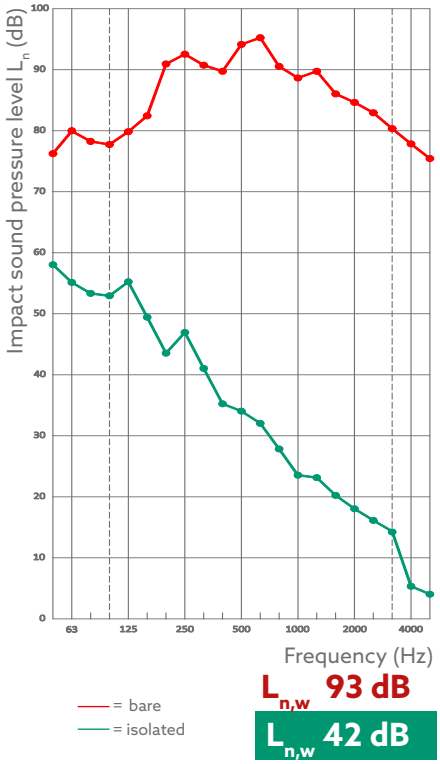




1. Floor finishing, th. 15 mm
2. Screed, th. 60 mm
3. Acoustic insulation and thermal HIGHMAT
4. Timber joist floor, th. 200 mm
5. Thermal and acoustic insulation FYBRO 50 in double layer
6. Anti-vibration brackets REDFIX C28
7. Steel profile 50/27/0.6
8. Double layer of plasterboard, th. 25 mm

Product	$L_{n,w}$ (dB)	R_w (dB)	U (W/m²k)
HIGHMAT 30	42	69	0,230

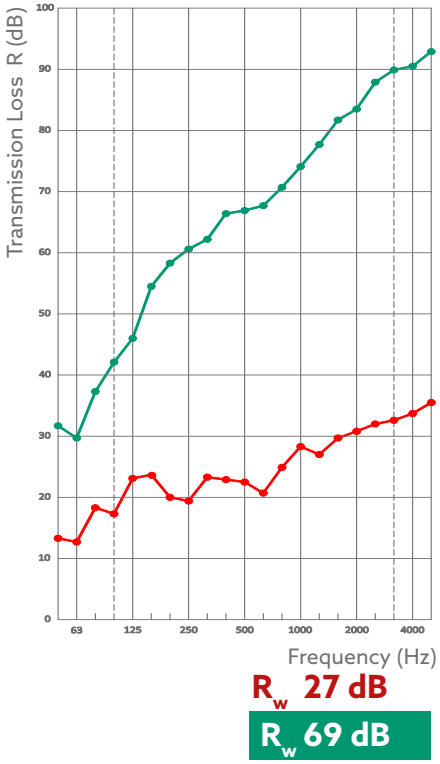
Impact sound insulation EN ISO 10140 and EN ISO 717-2



$L_{n,w}$ 93 dB

$L_{n,w}$ 42 dB

Airborne sound insulation EN ISO 10140 and EN ISO 717-1



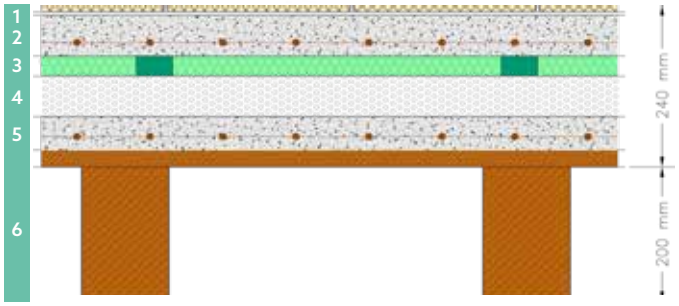
R_w 27 dB

R_w 69 dB

Fr Hz	Ln dB	R dB
100	53,6	42,1
125	55,9	46,0
160	50,1	54,5
200	44,2	58,3
250	47,6	60,6
315	41,2	62,2
400	35,9	66,4
500	34,7	66,9
630	32,7	67,7
800	28,5	70,7
1000	24,2	74,1
1250	23,8	77,7
1600	20,9	81,7
2000	18,7	83,5
2500	16,8	87,9
3150	15,1	89,9
4000	6,0	90,5
5000	4,7	92,9

Certified laboratory values, test report n. 15-4974-005

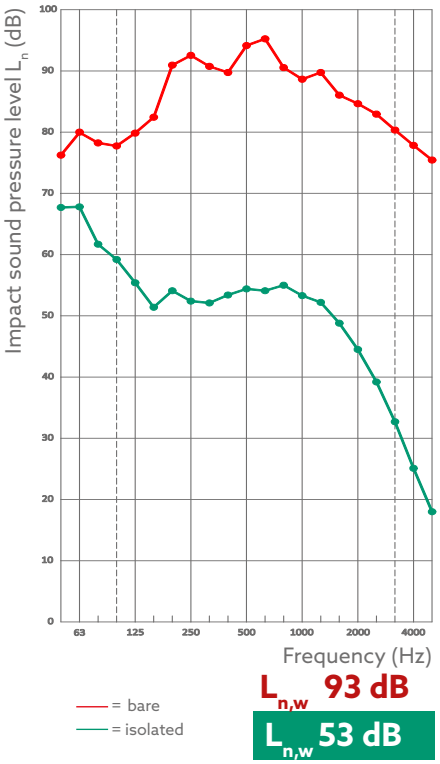




1. Floor finishing, th. 15 mm
2. Sand and cement bonded screed, th. 60 mm
3. Acoustic and thermal insulation HIGHMAT 30
4. Levelling screed, th. 60 mm
5. Reinforced concrete, th. 50 mm
6. Timber joists floor, th. 200 mm

Product	$L_{n,w}$ (dB)	R_w (dB)	U (W/m²k)
HIGHMAT 30	53	56	0,520

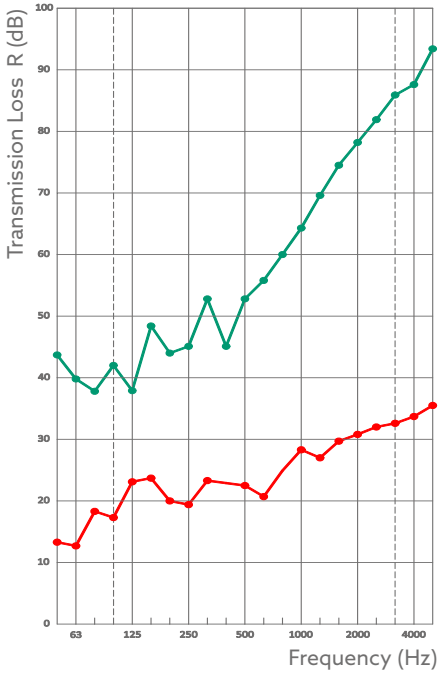
Impact sound insulation EN ISO 10140 and EN ISO 717-2



$L_{n,w}$ 93 dB

$L_{n,w}$ 53 dB

Airborne sound insulation EN ISO 10140 and EN ISO 717-1



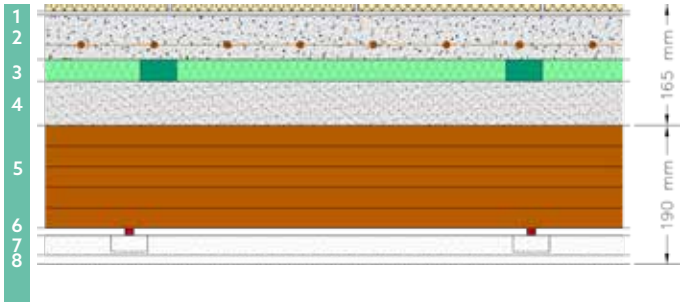
R_w 27 dB

R_w 56 dB

Fr Hz	Ln dB	R dB
100	59,2	42,0
125	55,4	37,9
160	51,4	48,4
200	54,1	46,0
250	52,4	48,3
315	52,1	44,0
400	53,4	45,1
500	54,4	52,8
630	54,1	55,8
800	55,0	60,0
1000	53,3	64,3
1250	52,2	69,6
1600	48,8	74,5
2000	44,5	78,2
2500	39,2	81,9
3150	32,7	85,9
4000	25,1	87,6
5000	18,0	93,4

Calculated values

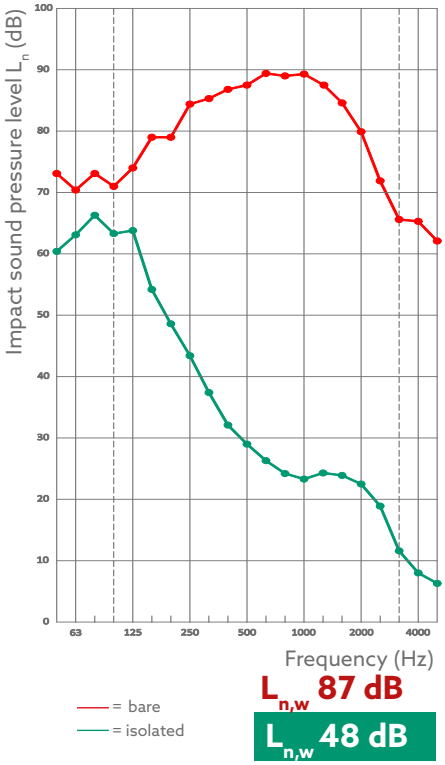




1. Floor finishing, th. 15 mm
2. Screed, th. 60 mm
3. Acoustic and thermal insulation HIGHMAT 30
4. Sand filling, th. 60 mm
5. CLT floor, th. 140 mm
6. Anti-vibration brackets REDFIX C28
7. Steel profile 50/27/0.6
8. Plasterboard, th. 12.5 mm

Product	$L_{n,w}$ (dB)	R_w (dB)	U (W/m²k)
HIGHMAT 30	48	60	0,460

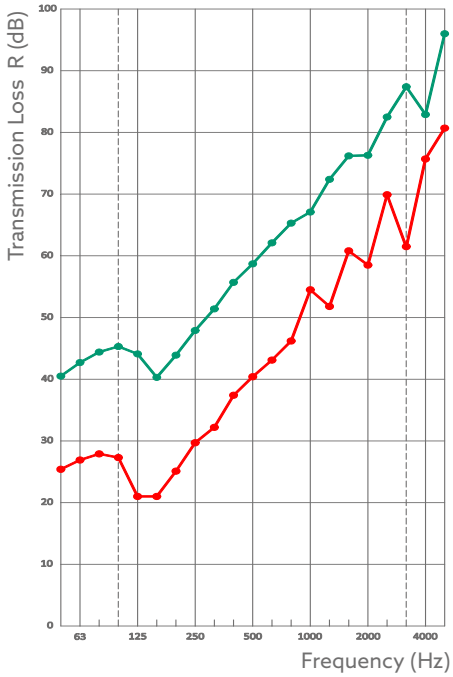
Impact sound insulation EN ISO 10140 and EN ISO 717-2



$L_{n,w}$ 87 dB

$L_{n,w}$ 48 dB

Airborne sound insulation EN ISO 10140 and EN ISO 717-1



R_w 38 dB

R_w 60 dB

Fr Hz	Ln dB	R dB
100	63,3	45,3
125	63,8	44,1
160	54,2	40,3
200	48,6	43,9
250	43,4	47,9
315	37,4	51,4
400	32,1	55,7
500	29,0	58,7
630	26,3	62,1
800	24,2	65,3
1000	23,3	67,1
1250	24,3	72,4
1600	23,9	76,2
2000	22,5	76,3
2500	18,9	82,5
3150	11,6	87,4
4000	8,0	82,9
5000	6,3	96,0

Certified laboratory values, test report n. 15-380-001

Impact sound insulation rolls **UPGREI**

High-performance acoustic and thermal insulation for floating screeds

UPGREI is a high-performance acoustic insulation product developed with advanced technologies for applications on floors using the floating screed system. It is manufactured in rolls using a special EPDM rubber layer based on the proven Grei technology, coupled with a layer of resin-bonded polyester fibre. The combination of these two materials provides the product with excellent acoustic, thermal, and mechanical properties.
The UPGREI range is ideal for impact sound and thermal insulation on all types of floors, especially where high acoustic performance is required.
The product combines strength and flexibility, adapting perfectly to the substrate surface. Thanks to the pre-arranged self-adhesive overlapping edge, the rolls can be joined quickly and accurately, reducing installation time without the need for additional adhesive tape.



APPLICATION FIELDS

- Traditional or lightweight floors.
- Thick screed applications.
- Wet or dry screed systems.
- Floors requiring high acoustic performance.

Technical features		UPGREI
Thickness	mm	10
Dimensions	mm	1040 x 5000
Mass per unit area	kg/m²	2,65
Dynamic stiffness s'	MN/m³	6
Impact sound pressure level attenuation ΔL_w	dB	26
Thermal conductivity coefficient (λ)	W/m K	0,043
Compressibility c	mm	2,2
Reaction to fire		Class E

TECHNICAL DATA SHEET
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ACCESSORIES

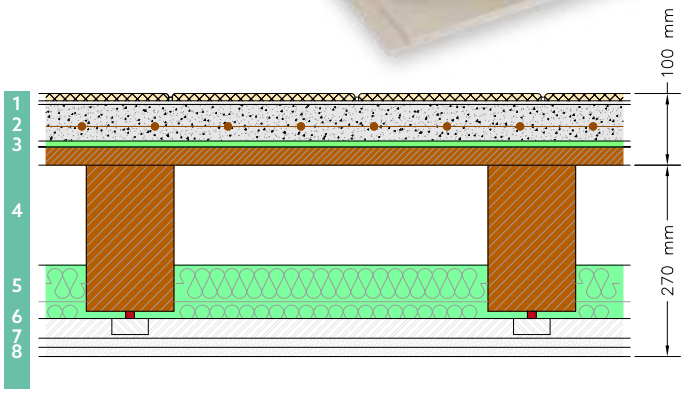


PROFYLE - PROFYLE FLAT
0,8 - 1,2 m per m²
of floor surface



STIK HD
0,1 m per m²
of floor surface

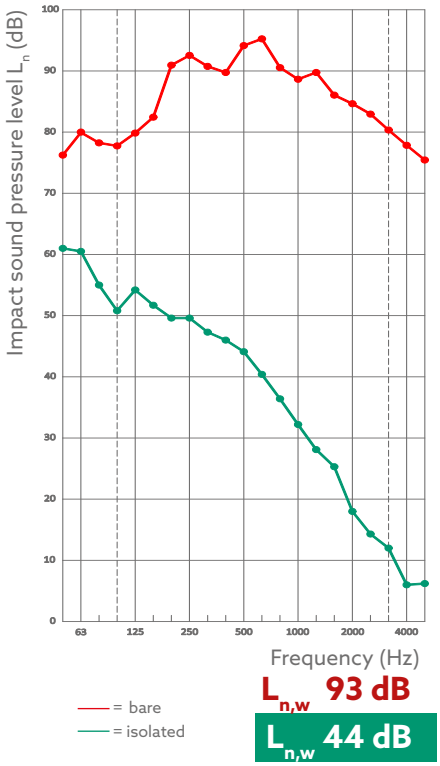




1. Floor finishing, th. 15 mm
2. Sand and cement bonded screed, th. 50 mm
3. Acoustic and thermal insulation UPGREI
4. Timber joists floor, th. 200 mm
5. Acoustic and thermal insulation FYBRO 50 in double layer
6. Anti-vibration brackets REDFIX C28
7. Steel profile 50/27/0.6
8. Double layer of plasterboard, th. 25 mm

Product	$L_{n,w}$ (dB)	R_w (dB)	U (W/m²k)
UPGREI	44	67	0,270

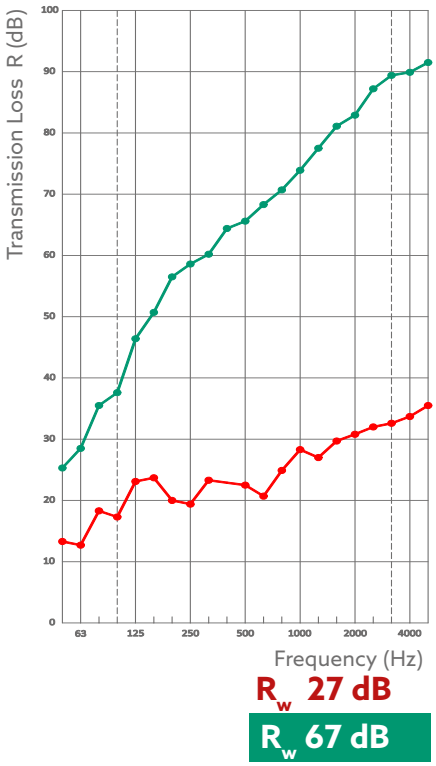
Impact sound insulation EN ISO 10140 and EN ISO 717-2



$L_{n,w}$ 93 dB

$L_{n,w}$ 44 dB

Airborne sound insulation EN ISO 10140 and EN ISO 717-1



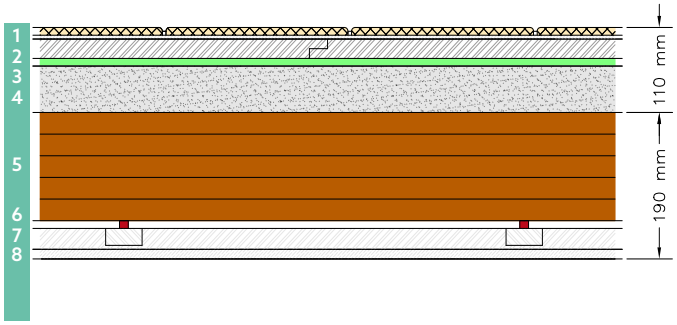
R_w 27 dB

R_w 67 dB

Fr Hz	Ln dB	R dB
100	50,8	37,6
125	54,2	46,4
160	51,7	50,7
200	49,6	56,5
250	49,6	58,6
315	47,3	60,2
400	46,0	64,4
500	44,1	65,6
630	40,4	68,3
800	36,4	70,7
1000	32,2	73,9
1250	28,1	77,5
1600	25,3	81,1
2000	18,0	82,9
2500	14,3	87,2
3150	12,0	89,4
4000	6,0	89,9
5000	6,2	91,5

Certified laboratory values, test report n. 15-4974-003

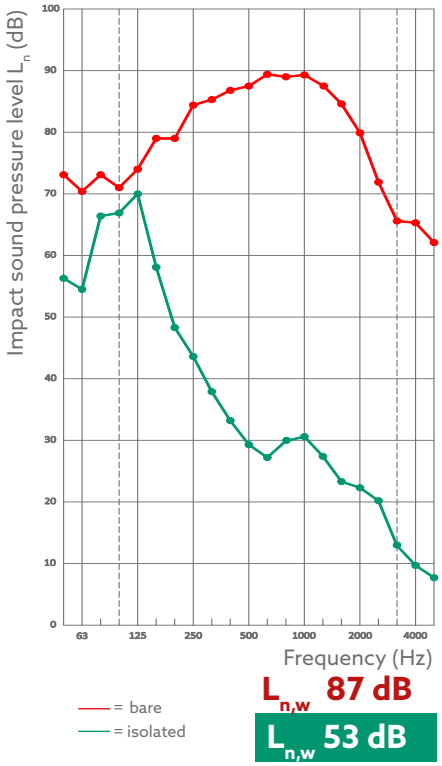




1. Floor finishing, th. 15 mm
2. Gypsum-fibre underlayment, th. 25 mm
3. Acoustic and thermal insulation UPGREI
4. Sand filling, th. 60 mm
5. CLT floor, th. 140 mm
6. Anti-vibration brackets REDFIX C28
7. Steel profile 50/27/0.6
8. Plasterboard, th. 12.5 mm

Product	$L_{n,w}$ (dB)	R_w (dB)	U (W/m²k)
UPGREI	53	59	0,630

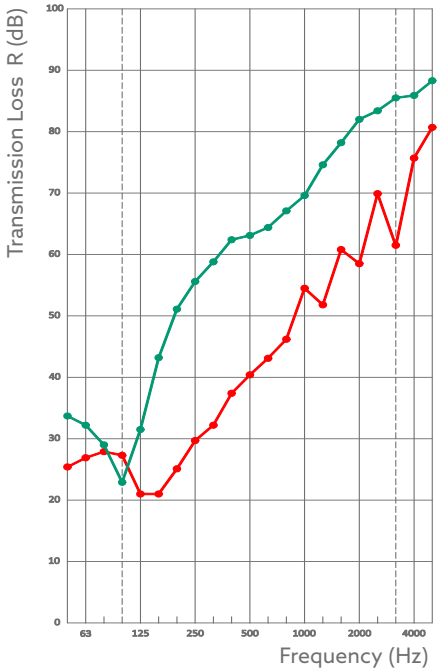
Impact sound insulation
EN ISO 10140 and EN ISO 717-2



$L_{n,w}$ 87 dB

$L_{n,w}$ 53 dB

Airborne sound insulation
EN ISO 10140 and EN ISO 717-1



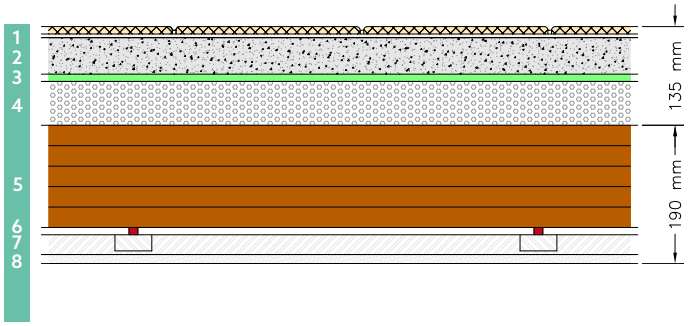
R_w 38 dB

R_w 59 dB

Fr Hz	Ln dB	R dB
100	66,9	22,9
125	70,0	31,5
160	58,1	43,2
200	48,3	51,1
250	43,6	55,6
315	37,9	58,8
400	33,2	62,4
500	29,3	63,1
630	27,2	64,4
800	29,9	67,1
1000	30,6	69,6
1250	27,4	74,6
1600	23,3	78,2
2000	22,3	82,0
2500	20,2	83,4
3150	12,9	85,5
4000	9,7	85,9
5000	7,7	88,3

Certified laboratory values, test report n. 14-4529-005

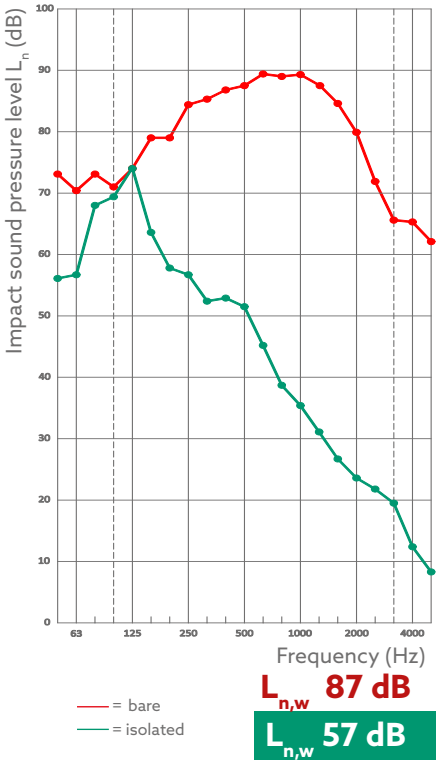




1. Floor finishing, th. 15 mm
2. Sand and cement bonded screed, th. 50 mm
3. Acoustic and thermal insulation UPGREI
4. Levelling screed, th. 60 mm
5. CLT floor, th. 140 mm
6. Anti-vibration brackets REDFIX C28
7. Steel profile 50/27/0.6
8. Plasterboard, th. 12.5 mm

Product	$L_{n,w}$ (dB)	R_w (dB)	U (W/m²k)
UPGREI	57	57	0,470

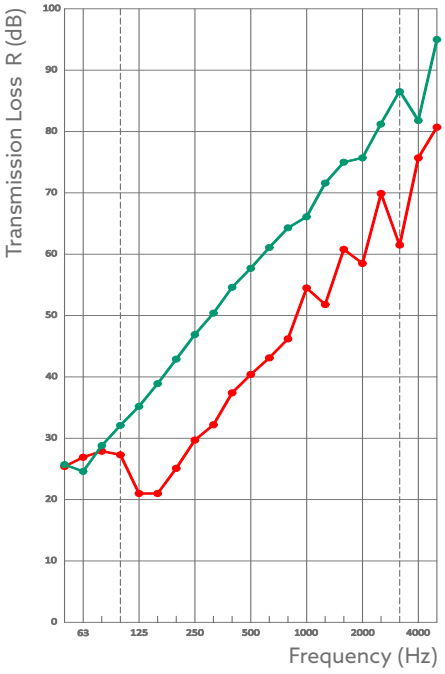
Impact sound insulation EN ISO 10140 and EN ISO 717-2



$L_{n,w}$ 87 dB

$L_{n,w}$ 57 dB

Airborne sound insulation EN ISO 10140 and EN ISO 717-1



R_w 38 dB

R_w 57 dB

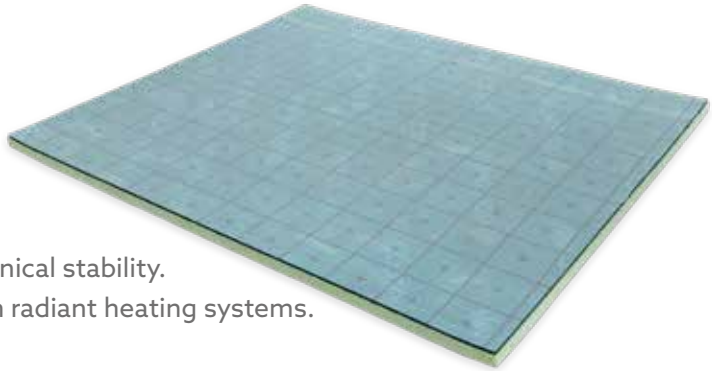
Fr Hz	Ln dB	R dB
100	69,4	32,1
125	74,1	35,2
160	63,6	38,9
200	57,8	42,9
250	56,7	46,9
315	52,4	50,4
400	52,9	54,6
500	51,5	57,7
630	45,2	61,1
800	38,7	64,3
1000	35,4	66,1
1250	31,1	71,6
1600	26,7	75,0
2000	23,6	75,7
2500	21,8	81,3
3150	19,5	86,6
4000	12,4	81,8
5000	8,3	95,0

Certified laboratory values, test report n. 14-4529-003

Impact sound insulation panels **BIFLOOR**

High-performance thermal-acoustic insulation for floating screed

BIFLOOR is a pre-bonded panel that combines acoustic and thermal insulation with outstanding performance. Made of a high-density polyester fibre layer and a semi-rigid layer of recycled rubber granules and fibres sourced from ELTs, the 28 mm thick panel is designed to ensure mechanical stability and excellent acoustic performance.
Ideal for both lightweight floors made of timber or corrugated metal sheet and traditional concrete or clay-cement floor slabs, BIFLOOR is perfect for impact sound and thermal insulation. The upper Velcro surface allows pipes to be fixed easily, making it an excellent solution for applications with underfloor heating systems as well.



APPLICATION FIELDS

- Acoustic and thermal insulation for lightweight or traditional floor slabs.
- Projects requiring both acoustic performance and mechanical stability.
- Acoustic and thermal insulation solutions for spaces with radiant heating systems.

Technical features		BIFLOOR
Thickness	mm	28
Dimensions	mm	1200 x 1000
Mass per unit area	kg/m²	8,4
Dynamic stiffness s'	MN/m³	10
Impact sound pressure level attenuation ΔL_w	dB	43
Thermal conductivity coefficient (λ)	W/m K	0,047
Compressibility c	mm	1,6
Reaction to fire		Class E

TECHNICAL DATA SHEET
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ACCESSORIES

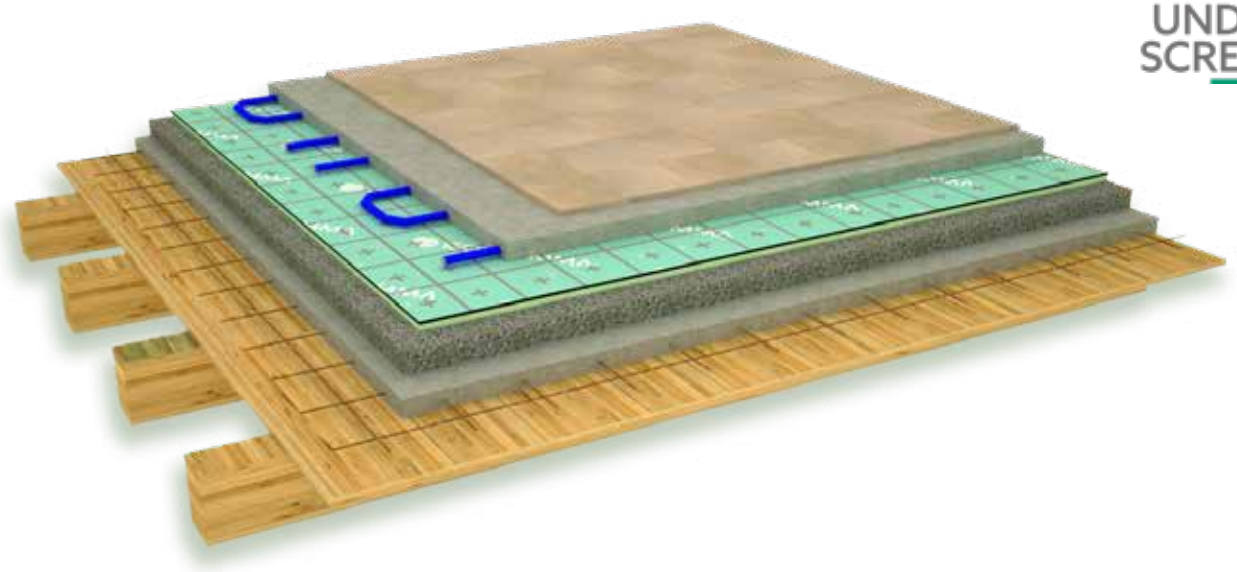


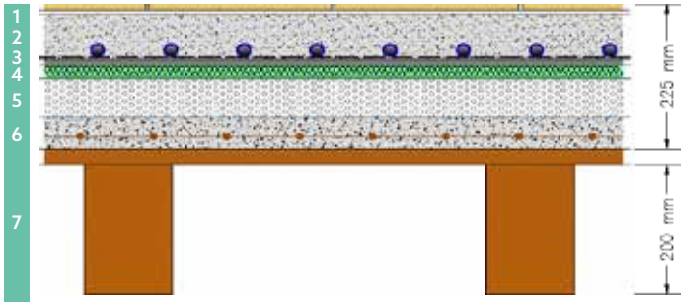
PROFYLE - PROFYLE FLAT
0,8 - 1,2 m per m²
of floor surface





STIK BF
0,1 m per m²
of floor surface

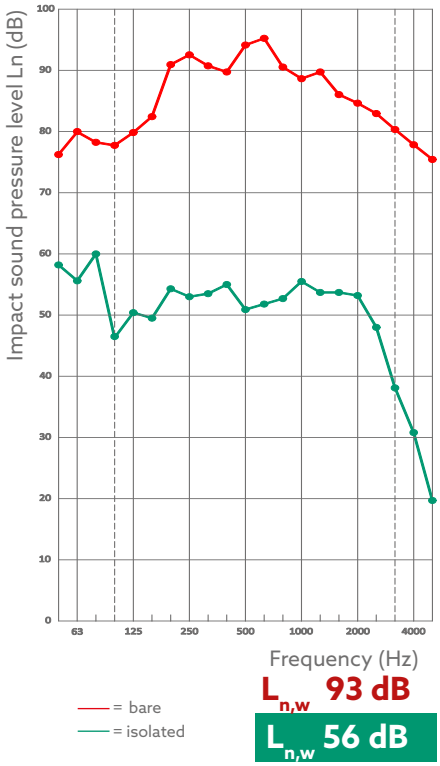




1. Floor finishing, th. 15 mm
2. Sand and cement bonded screed, th. 50 mm
3. Underfloor heating pipes fixed directly to the panel
4. BIFLOOR thermal-acoustic insulation
5. Lightened concrete, 80 mm thick.
6. Collaborative canopy, 50 mm thick.
7. Wood-paneled floor slab, 200 mm thick

Product	$L_{n,w}$ (dB)	R_w (dB)	U (W/m²k)
BIFLOOR	56	56	0,470

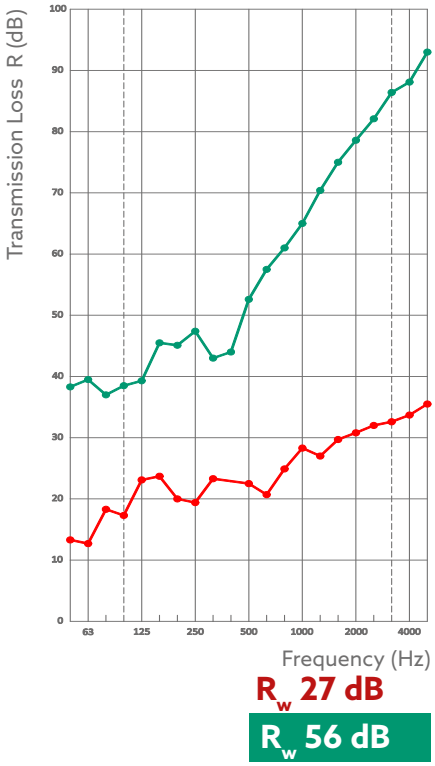
Impact sound insulation EN ISO 10140 and EN ISO 717-2



$L_{n,w}$ 93 dB

$L_{n,w}$ 56 dB

Airborne sound insulation EN ISO 10140 and EN ISO 717-1



R_w 27 dB

R_w 56 dB

Fr Hz	Ln dB	R dB
100	46,3	38,3
125	50,4	39,3
160	49,5	45,5
200	54,3	45,1
250	53,0	47,4
315	53,5	43,0
400	55,0	44,0
500	50,9	52,6
630	51,8	57,5
800	52,7	61,0
1000	55,5	65,0
1250	53,7	70,4
1600	53,7	75,0
2000	53,2	78,6
2500	48,0	82,1
3150	38,1	86,4
4000	30,8	88,1
5000	19,7	93,0

Calculated values

Impact sound insulation rolls **GREI**

High-performance acoustic insulation for floating screeds

GREI is an acoustic insulation underlay developed with proven technologies to ensure high performance in terms of quality and impact noise reduction.
Its composition combines a special EPDM rubber layer with recycled rubber fibers from end-of-life tyres, processed through a patented manufacturing technology that provides the product with excellent mechanical and acoustic properties. Thanks to these characteristics, GREI is the ideal solution for impact sound insulation on all types of floor structures.
The product combines strength and flexibility, adapting precisely to the laying surface. In addition, the integrated self-adhesive overlapping edge allows quick and accurate joining between rolls, significantly reducing installation time and eliminating the need for adhesive tape.



APPLICATION FIELDS

- Traditional or lightweight floors.
- Suitable for applications with underfloor heating systems.
- Floors requiring high acoustic performance.

Technical features		GREI
Thickness	mm	7
Dimensions	mm	1040 x 5000
Mass per unit area	kg/m²	2,8
Dynamic stiffness s'	MN/m³	8
Impact sound pressure level attenuation ΔL_w	dB	24
Thermal conductivity coefficient (λ)	W/mK	0,064
Compressibility c	mm	2,0
Reaction to fire		Class E

TECHNICAL DATA SHEET
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ACCESSORIES



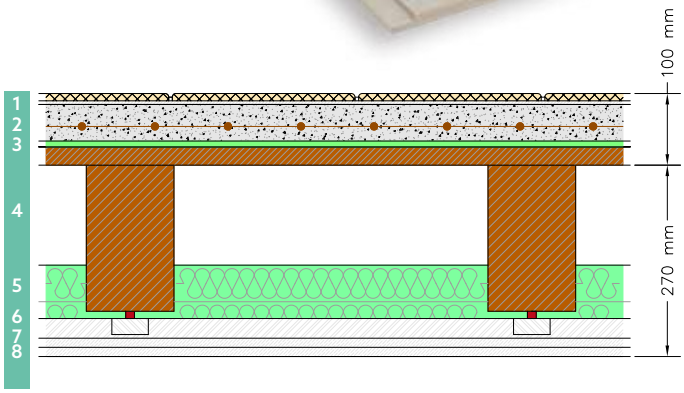
PROFYLE - PROFYLE FLAT
0,8 - 1,2 m per m²
of floor surface



STIK HD
0,1 m per m²
of floor surface

UNDER SCREED

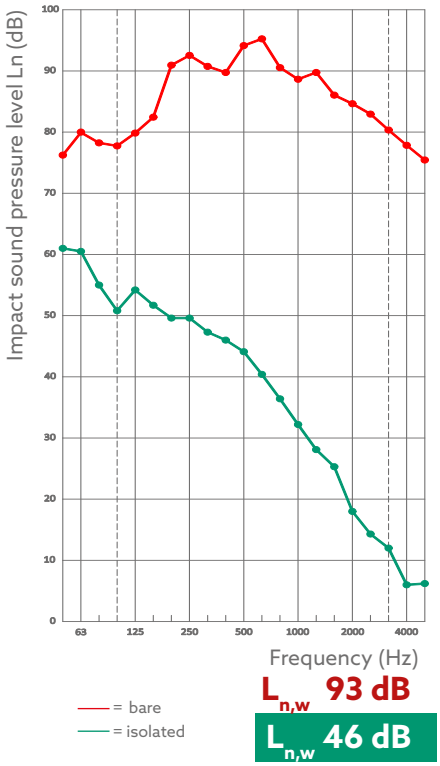




1. Floor finishing, th. 15 mm
2. Gypsum fibre underlay, th. 25 mm
3. Acoustic and thermal insulation GREI
4. Timber joists floor, th. 200 mm
5. Acoustic and thermal insulation FYBRO 50 in double layer
6. Anti-vibration brackets REDFIX C28
7. Steel profile 50/27/0.6
8. Double layer of plasterboard, th. 25 mm

Product	$L_{n,w}$ (dB)	R_w (dB)	U (W/m²k)
GREI	46	63	0,270

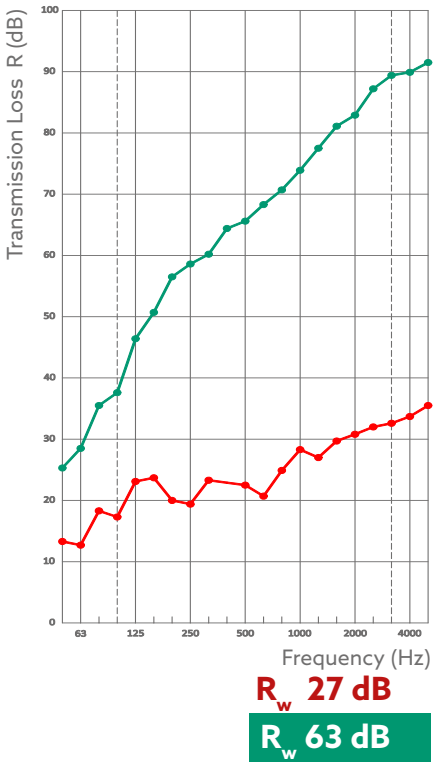
Impact sound insulation EN ISO 10140 and EN ISO 717-2



$L_{n,w}$ 93 dB

$L_{n,w}$ 46 dB

Airborne sound insulation EN ISO 10140 and EN ISO 717-1



R_w 27 dB

R_w 63 dB

Fr Hz	Ln dB	R dB
100	54,2	37,5
125	56,0	41,8
160	54,3	46,3
200	52,2	51,0
250	50,0	53,3
315	48,3	54,4
400	42,8	61,0
500	40,0	64,6
630	38,9	66,0
800	34,9	66,0
1000	31,4	69,0
1250	27,7	72,5
1600	22,8	76,2
2000	18,0	78,0
2500	12,8	80,9
3150	9,1	85,2
4000	4,6	88,5
5000	4,8	91,0

Certified laboratory values, test report n. 15-4974-012

Impact sound insulation rolls **SYL AD**

Acoustic insulation with extremely high mechanical resistance for floating screeds

SYL AD is a range of high-density rubber underlays designed for acoustic insulation beneath both dry and wet screed systems. Supplied in rolls and made from recycled rubber granules and fibres sourced from ELTs, bonded with polyurethane adhesive through a hot-processing method, the underlays combine elasticity, mechanical stability and excellent acoustic performance, ensuring effective impact sound insulation. The range includes versions in different thicknesses, including the 6 mm variant, which is ideal for applications with height constraints and ensures a good level of insulation even with reduced screed thicknesses.
SYL AD is therefore a reliable, sustainable and certified solution that combines acoustic comfort, technical performance and ease of installation.



APPLICATION FIELDS

- Ideal for terraces.
- High-thickness screeds.
- Raised floors.
- High performance with reduced thicknesses.

Technical features		SYL 6AD	SYL 10AD
Thickness	mm	6	10
Dimensions	mm	1200 x 8000	
Density	kg/m³	780	
Dynamic stiffness s'	MN/m³	77	68
Impact sound pressure level attenuation ΔL_w	dB	29	30
Thermal conductivity coefficient (λ)	W/m K	0,12	
Compressibility c	mm	0,2	0,4

TECHNICAL DATA SHEETS
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ACCESSORIES

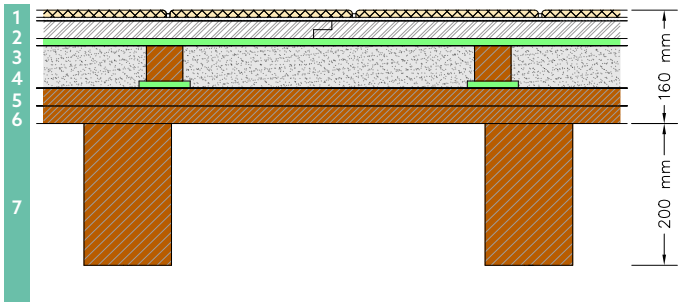


PROFYLE - PROFYLE FLAT
0,8 - 1,2 m per m²
of floor surface



STIK HD
0,1 m per m²
of floor surface

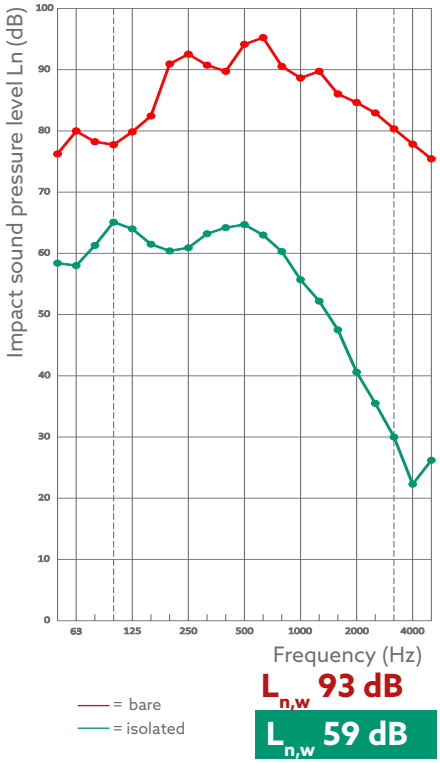




1. Floor finishing, th. 15 mm
2. Gypsum fibre underlay, th. 25 mm
3. Acoustic insulation SYL 10 AD
4. Sand filling, th. 70 mm
5. Timber beam, th. 65 mm
6. Acoustic insulation STYWALL AD PRO
7. Timber joists floor, th. 200 mm

Product	$L_{n,w}$ (dB)	R_w (dB)	U (W/m²k)
SYL 10AD	59	59	1,100

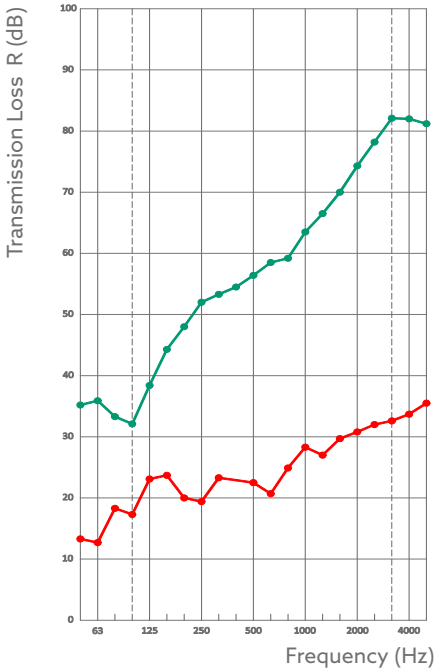
Impact sound insulation EN ISO 10140 and EN ISO 717-2



$L_{n,w}$ 93 dB

$L_{n,w}$ 59 dB

Airborne sound insulation EN ISO 10140 and EN ISO 717-1



R_w 27 dB

R_w 59 dB

Fr Hz	Ln dB	R dB
100	65,1	32,1
125	64,0	38,4
160	61,5	44,3
200	60,4	48,0
250	60,9	52,0
315	63,2	53,3
400	64,2	54,5
500	64,7	56,4
630	63,0	58,5
800	60,3	59,2
1000	55,7	63,5
1250	52,2	66,5
1600	47,5	70,0
2000	40,6	74,3
2500	35,5	78,2
3150	30,0	82,1
4000	22,3	82,0
5000	26,2	81,2

Certified laboratory values, test report n. 15-4974-011

Installation guidelines

How to install our acoustic insulation products under dry screeds

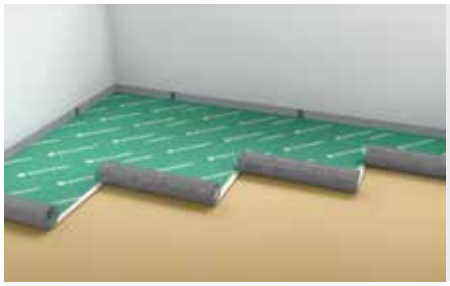
Installation guidelines for our impact sound insulation rolls.



Clean the lightweight substrate. Stick PROFY-LE to the wall and floor slab, carefully forming the corners



Install the dry screed according to the manufacturer's instructions



Roll out the acoustic insulation with the rubber granules facing down



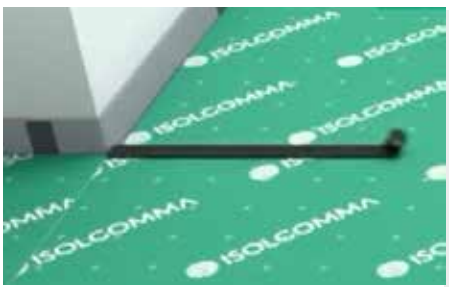
Apply the adhesive layer and lay the tiles. Then grout the joints and clean the tile surface



Bond the adhesive overlap edge, using the overlap lines as a guide



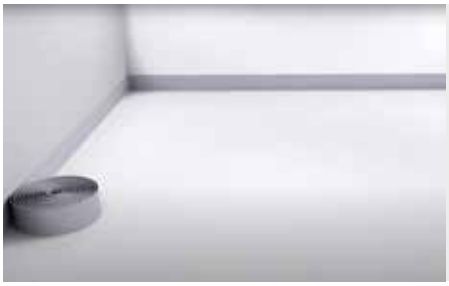
Cut the PROFYLE perimeter strip and remove the excess flush with the floor



If there is no adhesive overlap edge, seal the joints with STIK HD tape. Check that the underlay is correctly installed and free from tears



Installation guidelines for our HIGHMAT acoustic insulation panel.



Clean the lightweight substrate. Stick PROFYLE FLAT to the wall without folding it onto the floor slab, carefully forming the corners



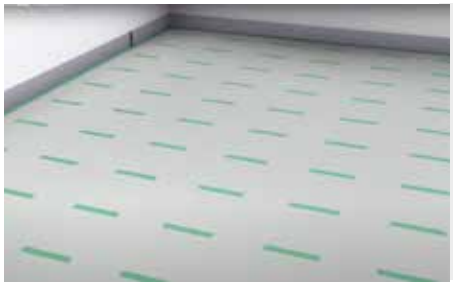
Apply a protective sheet before pouring the screed. Cover carefully and seal the sheet at the edges and joints with STIK HD tape



Lay SIDE HIGHMAT around the perimeter against the PROFYLE strip, creating a continuous linear support surface



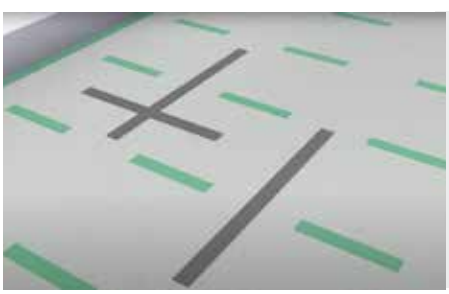
Pour the sand and cement or self-levelling screed, reinforced with mesh



Lay HIGHMAT in an alternating sequence along each row



Apply the adhesive layer and lay the tiles. Then grout the joints and clean the tile surface



Seal any gaps greater than 2 mm with STIK HD tape



Cut the PROFYLE perimeter strip and remove the excess flush with the floor

SINGLE WALL





Sound insulation panels for acoustic insulation of single walls.

The high sound insulation performance of our panels enables absorption across all frequencies, ensuring a certified acoustic improvement well above the 50 dB required by regulations and significantly enhancing quality of life inside homes.

Excellent environmental performance

90% recycled material

Certified quality

PRODUCT PANELS

		pg.
REWALL 40	High-performance acoustic and thermal insulation	*26*

Sound insulation panels **REWALL 40**

High-performance acoustic and thermal insulation

REWALL 40 is a pre-bonded panel with high thermal-acoustic performance, simple and quick to install. Made of polyester fibre, high-density rubber sourced from ELTs and plasterboard, it provides an excellent combination of acoustic and thermal insulation.
REWALL 40 is ideal for renovation and acoustic upgrading projects in existing spaces, without the need for demolition, masonry modifications or metal framing, ensuring immediate comfort and professional results in residential or working environments.



APPLICATION FIELDS

- Thermal and acoustic insulation of partition walls and ceilings between residential units.
- Suitable for existing spaces where masonry work cannot be carried out.
- Lining of existing walls without the use of traditional metal framing.

Technical features		**REWALL 40**
Thickness	mm	40
Dimensions	mm	1200 x 2000
Mass per unit area	kg/m²	18,0
Thermal resistance (R)	m² K/W	0,761
Reaction to fire	Class	B - s1, d0

TECHNICAL DATA SHEET
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ACCESSORIES



THROUGH-SCREW FIXING



GLUE
5 Kg/m² per panels
10/15 pcs/m²



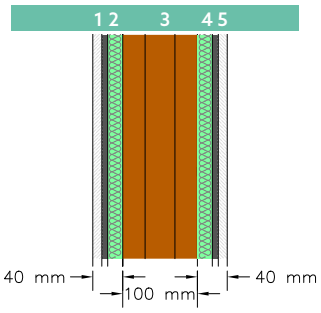
DOUBLE-THREAD SCREW



STYWALL

SINGLE WALL

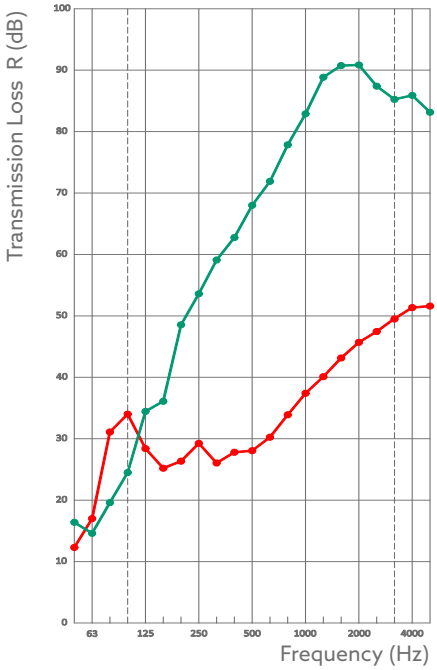




1. Plasterboard, th. 12.5 mm
2. Acoustic and thermal insulation REWALL 40
3. CLT wall, th. 100 mm
4. Acoustic and thermal insulation REWALL 40
5. Plasterboard, th. 12.5 mm

Product	R_w (dB)	U (W/m²k)
REWALL 40	58	0,403

Airborne sound insulation EN ISO 10140 and EN ISO 717-1



Fr Hz	R dB
100	24,5
125	34,5
160	36,1
200	48,6
250	53,6
315	59,1
400	62,8
500	68,0
630	71,9
800	77,8
1000	82,9
1250	88,8
1600	90,7
2000	90,8
2500	87,4
3150	85,2
4000	85,9
5000	83,2

— = bare
— = isolated

R_w 35 dB

R_w 58 dB

Installation guidelines

How to install our acoustic insulation products for dry wall applications

For correct installation of dry wall products, the following instructions must be observed:

• Check the flatness and vertical alignment of the supporting surface.

• Avoid installation where there is high residual moisture or water infiltration.

• The surface must be dry, clean and free from dust, oils, residues or protruding elements that could compromise correct installation.

• Avoid any subsequent work that could compromise the continuity of the system.

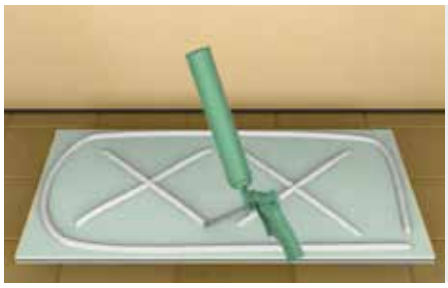
• Carefully seal service penetrations, perimeter joints and fixing points.



Installation guidelines for our sound insulation panels MUSTWALL 33B, REWALL 40 and REWALL 33B



Prepare the wall for panel installation by removing any paint.
Lay the under-wall strip



Apply Knauf PERLFIX adhesive in dabs to the panel while it is on the floor, or use SELENA TYTANS 60s polyurethane foam



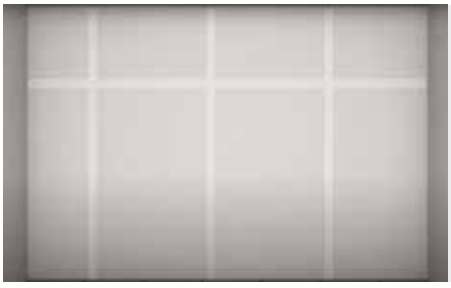
Bond the panel to the wall, applying light pressure



Fix two safety anchors at the top of the panel



Fix the second plasterboard sheet in the centre and along the sides using the dedicated double-thread screws, staggering the sheets, or fix it with adhesive



Apply mesh tape to the board joints. Fill the joints with joint compound

PLASTERBOARD WALL





Sound insulation panels for the acoustic insulation of plasterboard walls.

Plasterboard walls, when properly completed with our solutions, can provide excellent acoustic performance: an essential requirement especially for partition walls between apartments, hotel rooms, meeting rooms or offices.

VOC FREE

Excellent environmental performance

PRODUCT PANELS

		pg.
TRYWALL	Acoustic and thermal insulation	*32*

Sound insulation panels **TRYWALL**

Acoustic and thermal insulation

TRYWALL is designed to ensure high acoustic insulation performance in wall linings and lightweight walls built with plasterboard structures. It is a pre-bonded panel composed of two polyester fibre layers and a central high-density rubber sheet, providing effective acoustic insulation with reduced environmental impact.
Designed for systems with service cavities, TRYWALL maintains continuous insulation without interruptions, combining excellent acoustic performance with good thermal properties.
Thanks to its pre-bonded, ready-to-install components, it offers quick and easy installation in lightweight wall systems, ensuring comfort and functionality in every environment.



APPLICATION FIELDS

- Lightweight partition walls for dry systems with metal framing.
- Renovation and acoustic upgrading of existing walls without the need for demolition.
- Offices, professional studios and hospitality facilities, ensuring privacy and reducing noise between rooms.

Technical features		**TRYWALL**
Thickness	mm	48
Dimensions	mm	600 x 1200
Mass per unit area	kg/m²	8,80
Thermal conductivity coefficient (λ)	W/m K	0,047

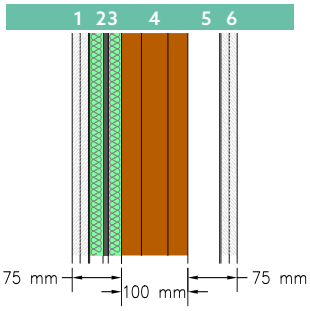
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ACCESSORIES



REDFIX L/C/U

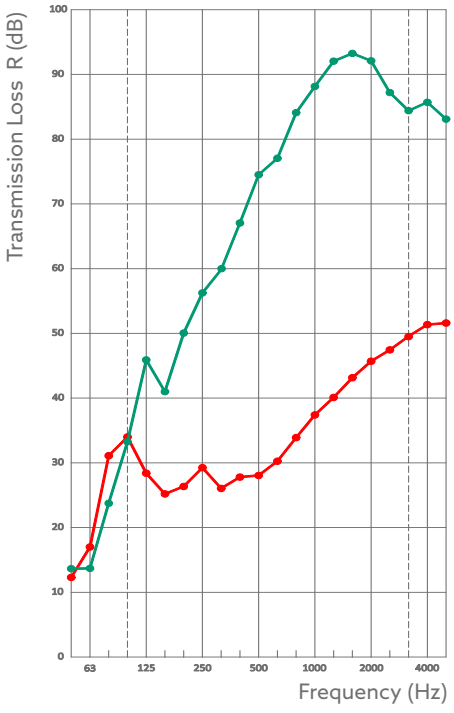




1. Double layer of plasterboard, th. 25 mm
2. Acoustic and thermal insulation TRYWALL 48
3. Steel profile 50/50/0.6
4. CLT wall, th. 100 mm
5. Air gap (metal structure), th. 50 mm
6. Double layer of plasterboard, th. 25 mm

Product	R_w (dB)	U (W/m²k)
TRYWALL	64	0,440

Airborne sound insulation EN ISO 10140 and EN ISO 717-1



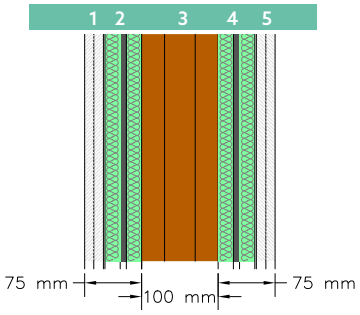
Fr Hz	R dB
100	33,2
125	45,9
160	41,0
200	50,1
250	56,2
315	59,9
400	67,1
500	74,5
630	77,0
800	84,1
1000	88,1
1250	92,0
1600	93,3
2000	92,1
2500	87,2
3150	84,4
4000	85,7
5000	83,1

— = bare
— = isolated

R_w 35 dB

R_w 64 dB

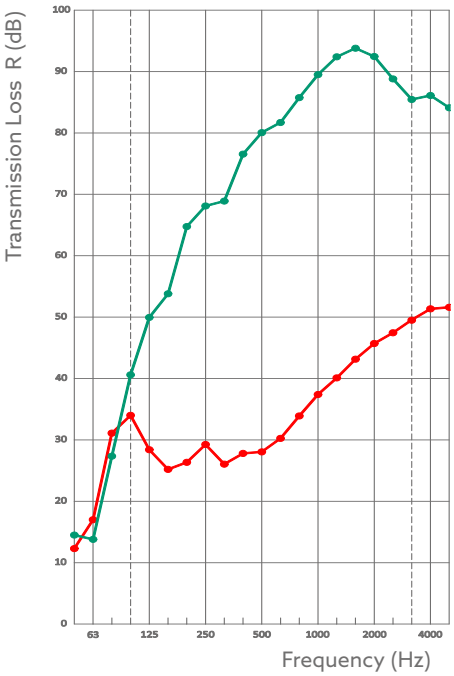




1. Double layer of plasterboard, th. 25 mm
2. Acoustic and thermal insulation TRYWALL 48
3. CLT wall, th. 100 mm
4. Acoustic and thermal insulation TRYWALL 48
5. Double layer of plasterboard, th. 25 mm

Product	R_w (dB)	U (W/m²k)
TRYWALL	74	0,320

Airborne sound insulation EN ISO 10140 and EN ISO 717-1



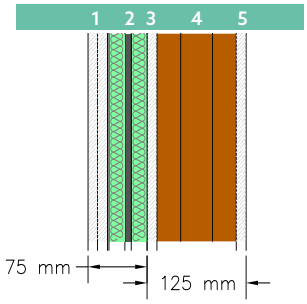
Fr Hz	R dB
100	40,6
125	50,0
160	53,8
200	64,8
250	68,1
315	68,9
400	76,5
500	80,0
630	81,7
800	85,7
1000	89,5
1250	92,4
1600	93,8
2000	92,5
2500	88,8
3150	85,5
4000	86,1
5000	84,1

— = bare
— = isolated

R_w 35 dB

R_w 74 dB

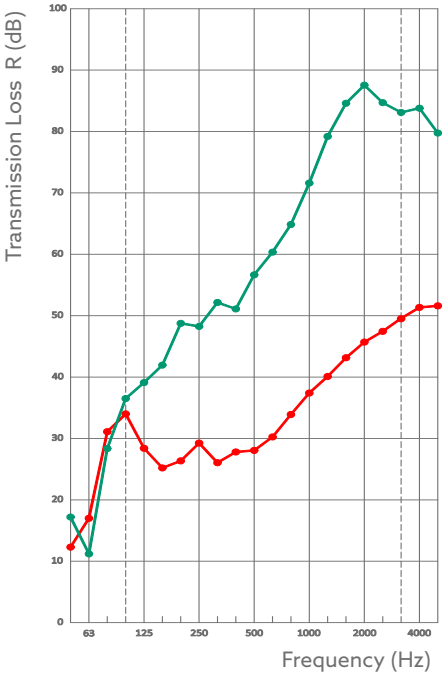




1. Double layer of plasterboard, th. 25 mm
2. Acoustic and thermal insulation TRYWALL 48
3. Plasterboard, th. 12.5 mm
4. CLT wall, th. 100 mm
5. Plasterboard, th. 12.5 mm

Product	R_w (dB)	U (W/m²k)
TRYWALL	59	0,476

Airborne sound insulation EN ISO 10140 and EN ISO 717-1



Fr Hz	R dB
100	36,7
125	39,1
160	41,9
200	48,7
250	48,3
315	52,1
400	51,1
500	56,7
630	60,3
800	64,8
1000	71,6
1250	79,2
1600	84,6
2000	87,5
2500	84,7
3150	83,1
4000	83,8
5000	79,8

— = bare
— = isolated

R_w 35 dB

R_w 59 dB

Installation guidelines

How to install our acoustic insulation products for framed dry walls

For correct installation of products for framed dry walls, the following instructions must be observed:

• Check the flatness and vertical alignment of the supporting surface.

• Avoid installation where there is high residual moisture or water infiltration.

• The surface must be dry, clean and free from dust, oils, residues or protruding elements that could compromise correct installation.

• Adequate decoupling must be provided between the timber structure and the metal profiles, avoiding direct rigid contact that could create acoustic bridges.

• Particular attention must be paid to mechanical fixings, service penetrations and perimeter joints, which must be properly sealed to ensure the system's performance.

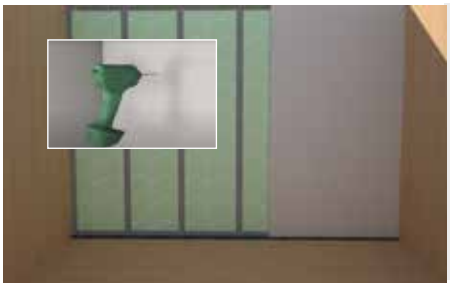
• The metal profiles must be correctly aligned and fixed according to the design specifications, avoiding stress or forced positioning that could compromise the stability of the system.



Installation guidelines for TRYWALL sound insulation panels.



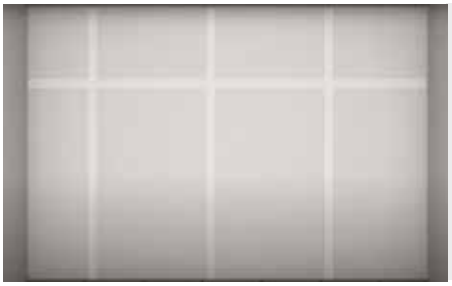
Lay the under-wall strip



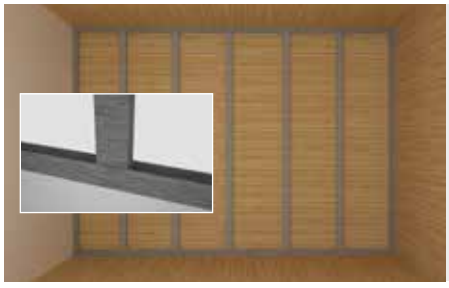
Fix the plasterboard sheets to the metal profiles to close the wall



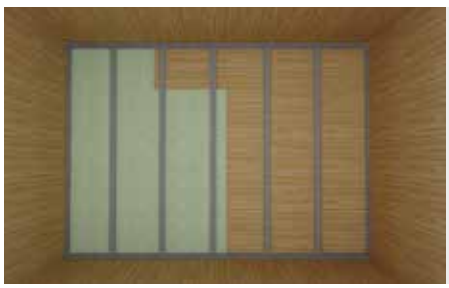
Fix the tracks to the floor slab, side walls and ceiling



Apply mesh tape to the board joints. Fill the joints with joint compound



Insert the metal profiles and fix them to the tracks



Insert the TRYWALL panel between the metal profiles

Elastic joint **JOINWOOD**

Acoustic insulation and vibration control of CLT floors and walls

The JOINWOOD strip is a decoupling element for reducing flanking transmission in CLT structures. It is supplied in rolls and made from ELT-derived recycled rubber granules, hot-pressed and bonded to a tear-resistant non-woven fabric backing.
It offers extremely high compressive strength while maintaining excellent elastic properties, providing a damping effect against the transmission of sound waves within CLT structures.



APPLICATION FIELDS

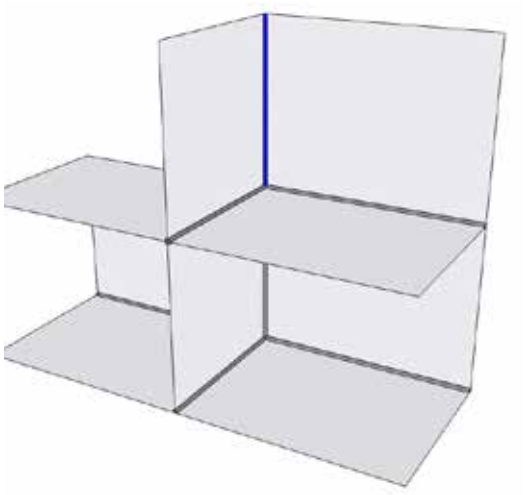
- Joints in CLT structures

Technical features		JOINWOOD
Thickness	mm	6
Length	m	8
Width	mm	100 - 140
Density	kg/m³	800
Thermal conductivity coefficient (λ)	W/mK	0,120

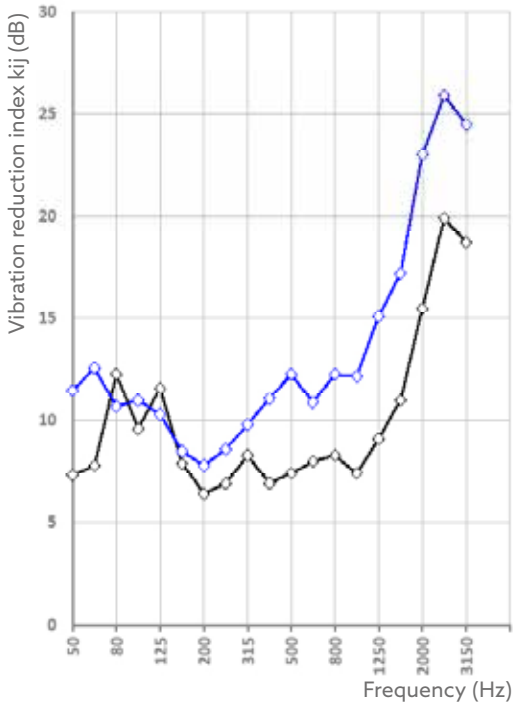
TECHNICAL DATA SHEET
Download document



LAYOUT FOR CROSS, T AND L-SHAPED JUNCTIONS



Vibration reduction index Kij – L-joint



VIBRATION REDUCTION INDEX K_{ij}

The vibration reduction index is a key parameter for determining flanking transmission within the prediction method used to calculate in situ sound insulation levels (R′, L′n), according to UNI EN ISO 12354:2017.
This index, measured in accordance with UNI EN ISO 10848:2017, makes it possible to compare the performance of structural joints or to define a requirement value. The data shown in the graph are part of an experimental laboratory study on CLT structures, aimed at demonstrating the effectiveness of inserting the insulation strip compared with a non-insulated structure. Using these values, and in accordance with the prediction method set out in UNI EN ISO 12354:2017, it is therefore possible to accurately predict the in-situ acoustic behaviour of the different partitions that make up CLT structures.

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Enjoy the Green Silence.