



SOLUTIONS FOR TIMBER STRUCTURES ACOUSTIC INSULATION

ACOUSTIC INSULATION FOR TIMBER STRUCTURES



Acoustic in wooden buildings depends on a careful study and an accurate project execution

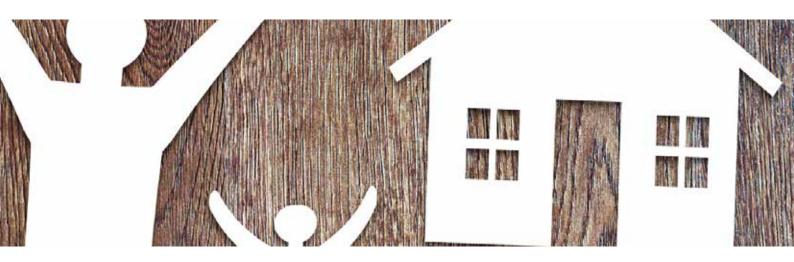
For more than 40 years, Isolgomma has been developing products and solutions for acoustic and thermal-acoustic insulation geared towards improving the quality of life.

Ever since its foundation in 1972, the launch of innovative products, covered by international patents, the expansion towards new markets and sectors and the achievement of quality certifications have made Isolgomma a well-known and appreciated brand all over the world, result of high experience and continuous research. We use cutting-edge technologies to create highperformance products providing appropriate solutions for every customer need.

The study and creation of eco-compatible products and the creation of highly performing articles have made Isolgomma a company of excellence both for the Italian and foreign markets in the construction, industry, transport and safety flooring sectors. Our specialized, dynamic and innovative staff are very attentive to customer needs. Our mission is innovation and eco-sustainability: investing in the development of new solutions and ensuring acoustic comfort for end users and offering eco-compatible solutions created through low environmental impact production processes. The use of advanced technologies, the continuous implementation of production processes and constant research and development activities allow us to create products composed of recycled rubber granules and fibres conferring unique technical characteristics; moreover, we offer global and tailormade solutions for any soundproofing requirement. Isolgomma has two laboratories specialized in research, testing and control for the construction and railway sectors, in compliance with the ISO 9001 quality system procedures.







Acoustics and comfort within wooden buildings

Wooden buildings are more and more considered as a valid alternative to the traditional constructions in reinforced concrete. Wooden buildings are very common in Northern European countries and are spreading massively both in Italy and in the rest of Europe. The reasons for this continuous growth lie in the unique properties of wood, such as excellent thermal insulation and mechanical resistance. The main advantages of timber structures are:

• Anti-seismic behaviour: thanks to a light weight and to the types of connections, wooden walls are less subject to seismic effects

• **Sustainability:** wood is a natural and sustainable material that has a reduced environmental impact for its production process

• **Reduced construction costs:** thanks to a high degree of prefabrication and the possibility of dry assembling of the various components

However, due to the intrinsic lightness of its components, timber structures require sound insulation interventions that involves all horizontal and vertical separation surfaces in order to meet regulatory requirements and increase overall living comfort.

For the new constructions, aside from the traditional wooden construction systems, the CLT technology is of considerable interest due to the great advantages it entails in terms of construction and site management.

In the renovation projects, very often old timber joists floors built in the past have to be kept and preserved. In these floors, built according to older and various technical practices, the compliance to the actual acoustic and thermal insulation standards is particularly difficult. Indeed, together with the compliance of modern standards, it is often required to preserve the aesthetics in valuable buildings of historical city centres.



ACOUSTIC INSULATION FOR TIMBER STRUCTURES



Timber joists floors

Timber joists floors are very common and are still used a lot in new constructions, also due to their low weight and excellent structural behaviour. In old buildings, this type of floor is very common and it is often preserved during renovation projects, both for its functionality and for aesthetic purposes, which is appreciated in all the markets. To grant the compliance of the old wooden floors with the most recent technical standards and regulations, very often during renovation a structural reinforcement and stiffening is adopted through a connected concrete layer cast in site specifically designed or through the installation of a second crossed wooden board layer. On the other hand, in new constructions a timber joists floor can be designed to satisfy the most recent building regulations through an appropriate re-dimensioning of the beams and wooden boards and by connecting adequately the floor to the perimeter structures.

The various analysis carried out in the laboratory on acoustic performances of such type of wooden floor, according to EN ISO 10140-5, allowed to obtain a representative pattern of most old and new constructions.

Furthermore, it has also been possible to observe how the low acoustic performance regarding impact and airborne sound insulation characterizes bare timber joists floors and how particularly critical they are, considering that the sound waves are concentrated in the low and middle frequency range.

As a consequence, high performance isolation materials and products have to be used in order to comply with the national regulations and to reach a high insulation level.







CLT Floors and walls

The CLT technology was born and developed as an innovative and an alternative to the wooden frame structures. The concept of CLT is based on prefabricated wooden panels which, disposed both horizontally and vertically, will form the bearing structure of the building.

The CLT panels can be produced with a wide variety of dimensions, up to 5 meters per 20 meters long, with a thickness that can exceed 40 centimetres. The prefabricated panels are to be installed on site, through standard mechanical fixing elements. A subsequent advantage of this technology is that the CLT elements can be customized, making the installation easier and reducing the time and the cost of the installation.

The prefabricated panels are to be installed in site, through standard mechanical fixing elements. A subsequent advantage of this technology is that the CLT elements can be customized, making the installation easier and reducing the time and the cost of the installation.



The acoustic performance of the CLT floors, even if it is better compared to the traditional timber joist, is still undermined by light weight. As a consequence, high performance materials and products have to be used in order to comply to national regulations and reach a higher insulation class.



ACOUSTIC INSULATION HIGHMAT LINE FOR WOODEN FLOORS



Acoustic and thermal insulation for floating floors

HIGHMAT products have been developed to reach extremely high insulation on floors with the floating screed technology.

Highmat is a combination of rubber bearings and polyester fibre assembled together in stand-alone panels, to be positioned on the base floor before casting the floating screed.

The Highmat system is the ideal choice to reach a first-class acoustic performance on all floor typologies. This product is particularly indicated for wooden floors as it increases significantly the acoustic performance at low frequencies and allows to meet the highest demands of acoustic comfort, both for impact sound and air-born noise. Highmat's unique features make it suitable also for acoustic insulation of floors in music/video production studios and in music halls.

APPLICATION FIELDS

- High impact sound insulation of floating floor
- Music and video production studios insulation

Technical features		Norm	HIGH	IMAT
Thickness	mm	-	20	30
Dimensions	m	-	0,6x1	
Surface mass	kg/m²	-	1,64	1,89
Dynamic stiffness (s')	MN/m ³	EN 29052-1	11	6
Impact sound level attenuation (ΔLw)	dB	EN ISO 10140	34	36
Thermal conductivity coefficient (λ)	W/m²K	EN 12667	0,0	04

COMPLEMENTARY PRODUCTS AND ACCESSORIES

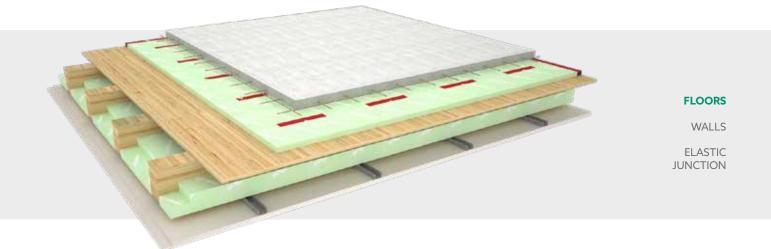


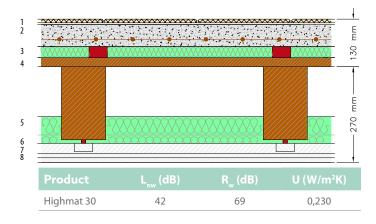
FYBRO



SIDE HIGHMAT

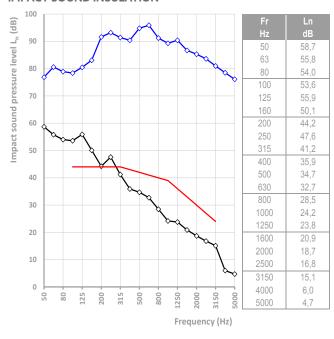








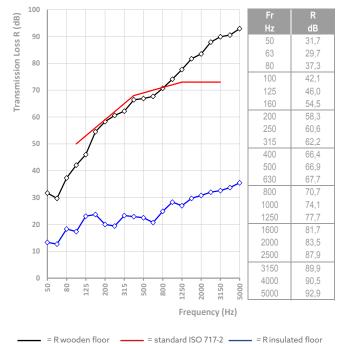
- 2. Screed, th. 60 mm
- 3. Acoustic insulation HIGHMAT
- 4. Timber joists floor, th. 200 mm
- 5. Acoustic insulation FYBRO 50 in double layer
- 6. Anti-vibration brackets REDFIX C28
- 7. Steel profile 50/27/0.6
- 8. Double layer of plasterboard, th. 25 mm



= L_ insulated floor

= L_nwooden floor = standard ISO 717-2 Certified laboratory values, test report nr. 15-4974-005

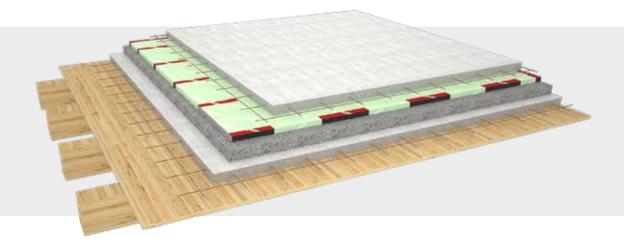
AIRBORNE SOUND INSULATION

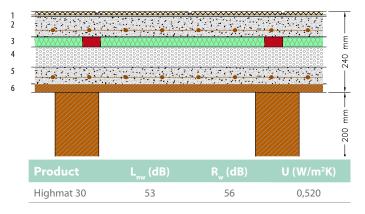




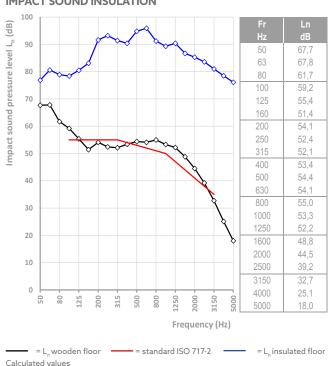
IMPACT SOUND INSULATION

ACOUSTIC INSULATION **HIGHMAT LINE FOR WOODEN FLOORS**





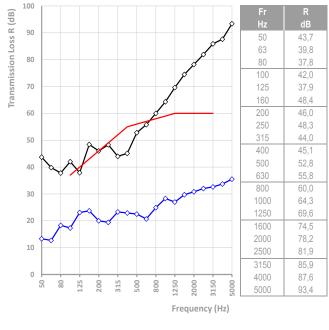
- 1. Floor finishing, th. 15 mm
 - 2. Sand and cement bonded screed, th. 60 mm
 - 3. Acoustic insulation HIGHMAT 30
 - 4. Levelling screed, th. 60 mm
 - 5. Reinforced concrete, th. 50 mm
 - 6. Timber joists floor, th. 200 mm



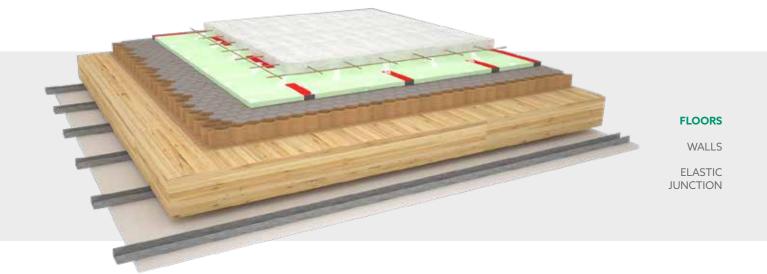
IMPACT SOUND INSULATION

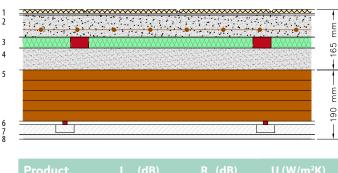
AIRBORNE SOUND INSULATION

= R wooden floor 🗕

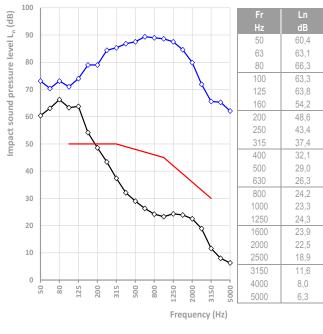


= standard ISO 717-2 _____ = Rinsulated floor





Product	L _{nw} (dB)	R _w (dB)	U (W/m²K)
Highmat 30	48	60	0,460



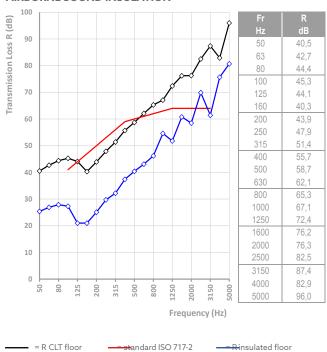
= L_ insulated floor

IMPACT SOUND INSULATION

E L wooden floor standard ISO 717-2 Certified laboratory values, test report nr. 15-380-001

1. Floor finishing, th. 15 mm

- 2. Screed, th. 60 mm
- 3. Acoustic 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



AIRBORNE SOUND INSULATION



ACOUSTIC INSULATION **UPGREI LINE FOR WOODEN FLOORS**





Acoustic and thermal insulation for floating floors

UPGREI is a product line for high performance in acoustic insulation, developed with cutting-edge technologies, for applications in the construction using floating screeds. Upgrei is made in rolls using a special type of EPDM rubber that exploits the tried and tested Grei technology, coupled with a polyester fibre layer.

The combination of these two materials gives the product excellent acoustic, thermal and mechanical properties.

The Upgrei line is ideal for impact sound insulation of wooden floors, especially when high acoustic performances are required.

The extremely resistant yet flexible mat adapts perfectly to the underlying surface and - thanks to the self-adhesive joining edge - allows a perfect connection of the edges of the rolls without having to use adhesive tape. As a result, the product can be applied easily and precisely, in a much shorter time.

APPLICATION FIELDS

REDFIX

- Acoustic and thermal insulation of floating floors
- Acoustic and thermal insulation of high thickness screeds
- Applications on floors where a high acoustic performance is required

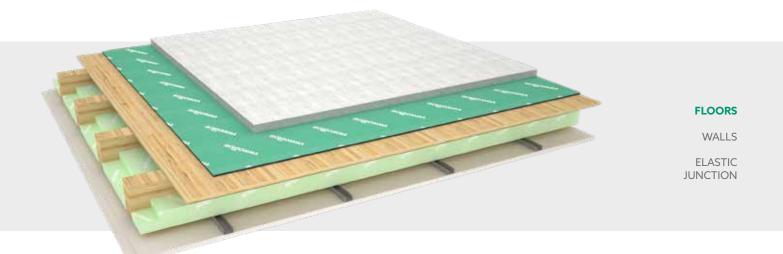
Technical features		Norm	UPGREI
Thickness	mm	-	10
Dimensions	m	-	1,04x5
Surface mass	kg/m²	-	2,65
Dynamic stiffness (s')	MN/m ³	EN 29052-1	≤ 18
Impact sound level attenuation (ΔLw)	dB	EN ISO 10140	≥ 25
Thermal conductivity coefficient (λ)	W/m²K	EN 12667	0,047
Fire grade	Class	EN 13501-1	E _{fl}

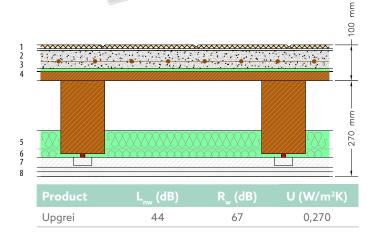


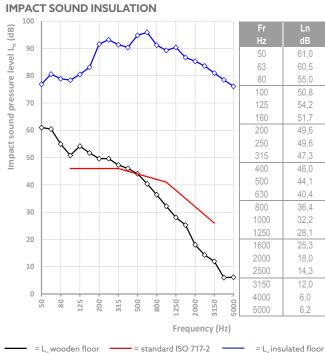
FYBRO

SOLUTIONS FOR ACOUSTIC INSULATION **TIMBER STRUCTURES**

COMPLEMENTARY PRODUCTS AND ACCESSORIES



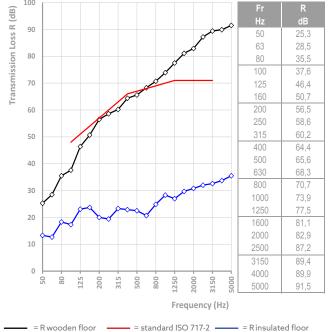




= L_n wooden floor = standard ISO 717-2 Certified laboratory values, test report nr. 15-4974-003

1. Floor finishing, th. 15 mm

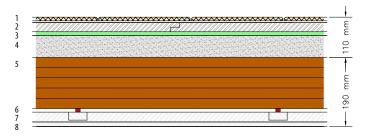
- 3. Acoustic insulation UPGREI
- 4. Timber joists floor, th. 200 mm
- 5. Acoustic insulation FYBRO 50 in double layer
- 6. Anti-vibration brackets REDFIX C28
- 7. Steel profile 50/27/0.6
- 8. Double layer of plasterboard, th. 25 mm



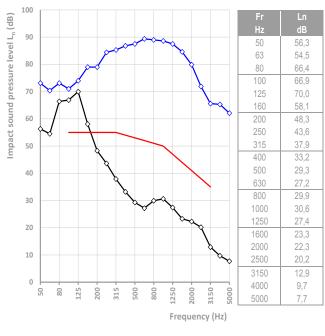
ISOLGOMMA

ACOUSTIC INSULATION UPGREI LINE FOR WOODEN FLOORS





Product	L _{nw} (dB)	R _w (dB)	U (W/m²K)
Upgrei	53	59	0,630



IMPACT SOUND INSULATION

= L_n wooden floor = standard ISO 717-2 Certified laboratory values, test report nr. 14-4529-005 = L_ninsulated floor

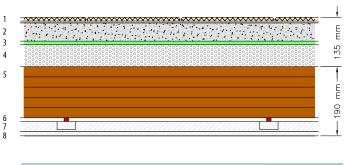
- 1. Floor finishing, th. 15 mm
- 2. Gypsum fiber underlayment, th. 25 mm
- 3. Acoustic insulation UPGREI
- 4. Sand filling, th. 60 mm
- 5. CLT floor, th. 140mm
- 6. Anti-vibration brackets REDFIX C28
- 7. Steel profile 50/27/0.6
- 8. Plasterboard, th. 12,5 mm

100 Transmission Loss R (dB) Hz 90 337 50 63 32,2 80 80 29,0 70 125 31.5 43,2 160 60 51,1 250 55,6 58,8 315 50 400 62,4 500 63,1 40 630 64,4 800 67,1 30 1000 69,6 74.6 20 78,2 2000 82,0 10 2500 834 85,5 0 4000 85.9 20 80 L25 00 800 1250 2000 3150 5000 88,3 Frequency (Hz)

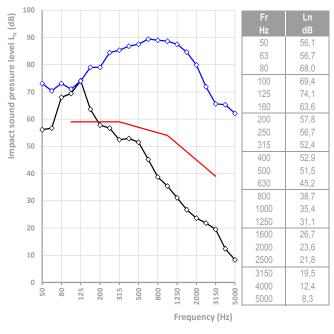
AIRBORNE SOUND INSULATION

= R CLT floor = standard ISO 717-2 = Rinsulated floor Certified laboratory values, test report nr. 14-4529-007





Product	L _{nw} (dB)	R _w (dB)	U (W/m²K)
Upgrei	57	57	0,470



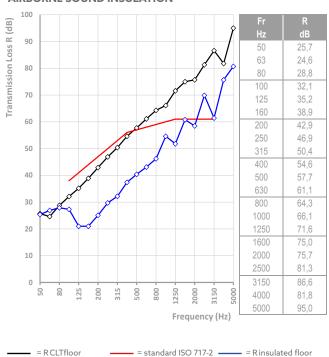
= L_ insulated floor

IMPACT SOUND INSULATION

= L_nwooden floor = standard ISO 717-2 Certified laboratory values, test report nr. 14-4529-003

1. Floor finishing, th. 15 mm

- 2. Sand and cement bonded screed, th. 50mm
- 3. Acoustic 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



AIRBORNE SOUND INSULATION



ACOUSTIC INSULATION GREI LINE FOR WOODEN FLOORS



Acoustic and thermal insulation for floating floors

GREI is a product range for acoustic insulation of floors and was developed for constructing highquality slabs guaranteeing excellent insulation performances.

The use of a special EPDM rubber combined with a specific patented production process guarantee a product with superior mechanical and acoustic properties and making it ideal for impact noise insulation on all types of slabs.

The extremely resistant yet flexible mat adapts perfectly to the underlying surface and - thanks to the self-adhesive joining edge - allows for joining the edges of the rolls without having to use adhesive tape. As a result, the product can be applied easily and precisely, in a much shorter time.

APPLICATION FIELDS

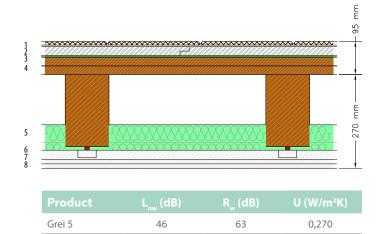
- Floor slabs with floating floor finishing
- High thickness screeds

Technical features		Norm	G	REI
Thickness	mm	-	5	8
Dimensions	m	-	1,04x5	
Surface mass	kg/m ²	-	2,4	2,9
Dynamic stiffness (s')	MN/m ³	EN 29052-1	15	11
Impact sound level attenuation (ΔLw)	dB	EN ISO 10140	23	24
Thermal conductivity coefficient (λ)	W/m²K	EN 12667	0,0)67



COMPLEMENTARY PRODUCTS AND ACCESSORIES

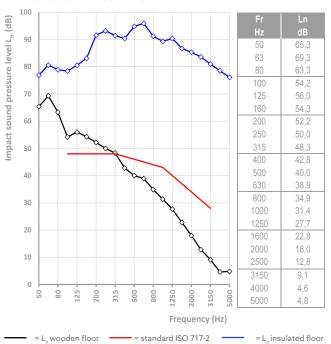




- 1. Floor finishing, th. 15 mm
- 2. Gypsum fiber underlayment, th. 25 mm
- 3. Acoustic insulation GREI 5
- 4. Timber joists floor, th. 20 mm
- 5. Acoustic insulation FYBRO 50, double layer
- 6. Anti-vibration brackets REDFIX C28
- 7. Steel profile 50/27/0.6

AIRBORNE SOUND INSULATION

8. Double layer of plasterboard, th. 25 mm



IMPACT SOUND INSULATION

= L_n wooden floor = standard ISO 717-2 Certified laboratory values, test report nr. 15-4974-012

= R wooden floor — = standard ISO 717-2 — = Rinsulated floor

ISOLGOMMA

¹⁰⁰ Transmission Loss R (dB) Fr Hz 90 24,2 50 63 24.2 80 32,2 80 70 125 41.8 160 46,3 60 200 53,3 250 315 54,4 50 400 61.0 500 64,6 40 630 66,0 66,0 30 1000 69,0 72,5 1250 20 2000 78,0 10 2500 80,9 85,2 0 4000 88,5 0 8 125 200 315 500 L250 2000 3150 800 0000 5000 91,0 Frequency (Hz)

ACOUSTIC INSULATION SYLPRO LINE FOR WOODEN FLOORS



Acoustic and thermal insulation for floating floors

SYLPRO AD is made of high density rubber for sound insulation with a direct application under base floor. The Sylpro line, made in rolls, is composed of highly flexible SBR rubber granules which, once hot pressed and bound with polyurethane binders, grant great acoustic performance and mechanic stability and a good level of impact sound insulation even beneath wooden floors.

APPLICATION FIELDS

Acoustic and thermal insulation of floating floors

Technical features		Norm	SYI	_PRO	AD
Thickness	mm	-	6	8	10
Dimensions	m	-	1,2x8		
Surface mass	kg/m ²	-	4,8	6,4	8,0
Dynamic stiffness (s')	MN/m ³	EN 29052-1	77	60	68
Impact sound level attenuation (ΔLw)	dB	EN 12354-1	20	21	21
Thermal conductivity coefficient (λ)	W/m²K	EN 12667		0,120	

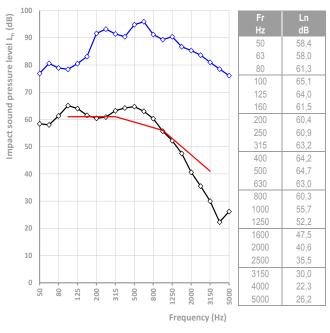


COMPLEMENTARY PRODUCTS



Product	L _{nw} (dB)	R _w (dB)	U (W/m²K)
Sylpro 10 AD	59	59	1,100

- 1. Floor finishing, th. 15 mm
- 2. Gypsum fiber underlayment, th. 25 mm
- 3. Acoustic insulation SYLPRO 10 AD
- 4. Sand filling, th. 70 mm
- 5. Wooden beam, th. 65 mm
- 6. Acoustic insulation STYWALL AD PRO
- 7. Timber joists floor, th. 200 mm

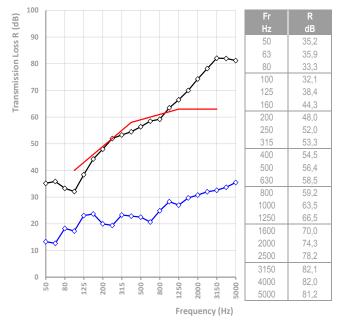


IMPACT SOUND INSULATION

= L_nwooden floor = standard ISO 717-2 Certified laboratory values, test report nr. 15-4974-011

= L_ninsulated floor

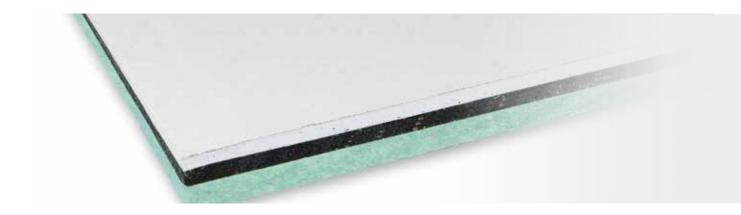
AIRBORNE SOUND INSULATION



= Rwooden floor _____ = standard ISO 717-2 _____ = Rinsulated floor



ACOUSTIC INSULATION **REWALL LINE FOR WOODEN WALLS**



Acoustic and thermal insulation for walls

REWALL is a product of high thermo-acoustic features which was developed to

increase the acoustic insulation performances of CLT walls.

Its low thickness allows the application even in situations of limited space and in renovations works. It is composed of a panel of fibres and granules of SBR rubber coupled with a polyester fibre panel and a coated plaster board.

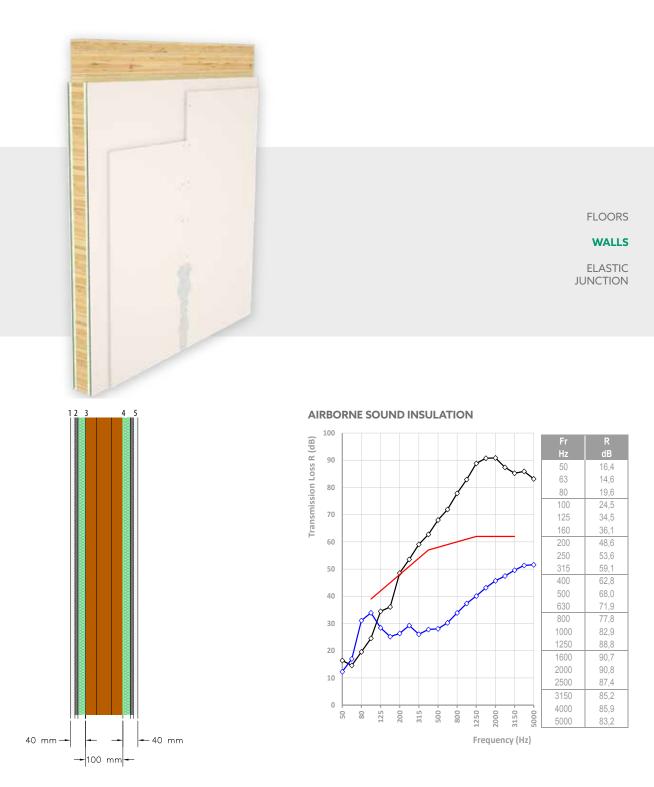
APPLICATION FIELDS

- Acoustic and thermal insulation of dividing walls and ceilings
- Applicable in existing settings where it is not possible to perform masonry work
- Recovering of existing walls without using the traditional metal structure

Technical features		Norm	REWALL
Thickness	mm	-	40
Dimensions	m	-	1,2x2
Surface mass	kg/m²	-	18,0
Thermal resistance	m² K/W	EN 12667	0,761



COMPLEMENTARY ACCESSORIES



Product	R _w (dB)	U (W/m²K)
Rewall 40	58	0,403

1. Plasterboard, th. 12,5 mm

2. Acoustic Insulation REWALL 40

- 3. CLT wall, th. 100mm
- 4. Acoustic insulatin REWALL 40
- 5. Plasterboard, th. 12,5 mm

= R CLT floor = standard ISO 717-2 = R insulated wall Certified Isolgomma laboratory values



ACOUSTIC INSULATION TRYWALL LINE FOR WOODEN WALLS



Acoustic and thermal insulation for walls

TRYWALL is specially developed to offer high acoustic insulation for applications with lining and lightweight walls made with a plasterboard structure.

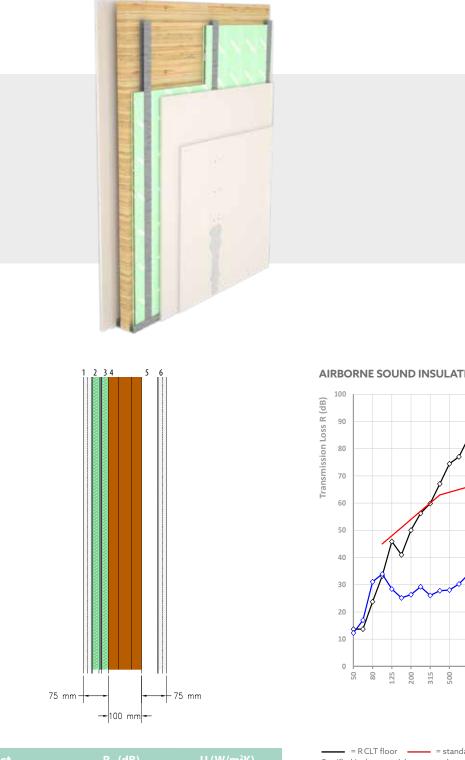
It is a coupled product with a total thickness of 48 mm, composed of 2 elements in polyester fibre and a central high-density rubber board, which allows you to obtain a sound-insulating panel with a reduced environmental impact.

Trywall has been specifically designed for wall systems with cavities for implants thus avoiding air leaks. This type of product combines excellent acoustic performance with excellent results in thermal insulation and offers an extreme ease of installation in light wall systems as the different elements are already coupled and ready to install.

APPLICATION FIELDS

- Acoustic and thermal insulation of dividing walls and ceilings
- Recovering of existing walls with the use of the traditional metal structure

Technical features		Norm	TRYWALL
Thickness	mm	-	48
Dimensions	m	-	0,6x1,2
Surface mass	kg/m²	-	8,80
Thermal conductivity coefficient (λ)	W/m²K	EN 12667	0,047



0,440





ELASTIC JUNCTION

1. Double layer of plasterboard, th. 25 mm

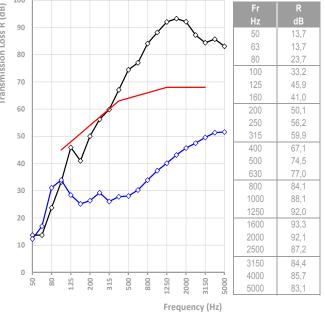
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- 2. Acoustic Insulation TRYWALL 48
- 3. Steel profile 50/50/0.6
- 4. CLT wall, th. 100 mm

Trywall 48

- 5. Air gap (metal structure), th. 50 mm
- 6. Double layer of plasterboard, th. 25 mm

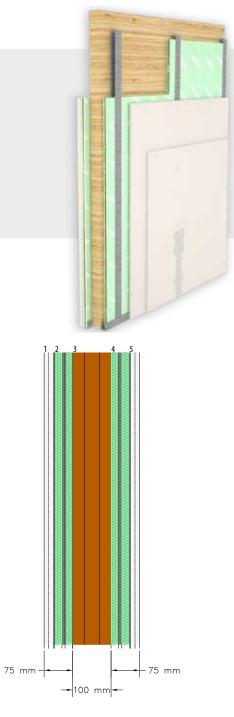
AIRBORNE SOUND INSULATION



= standard ISO 717-2 = Rinsulated wall Certified Isolgomma laboratory values

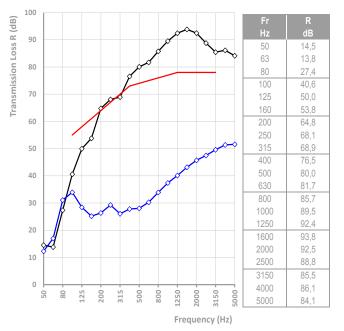


ACOUSTIC INSULATION TRYWALL LINE FOR WOODEN WALLS



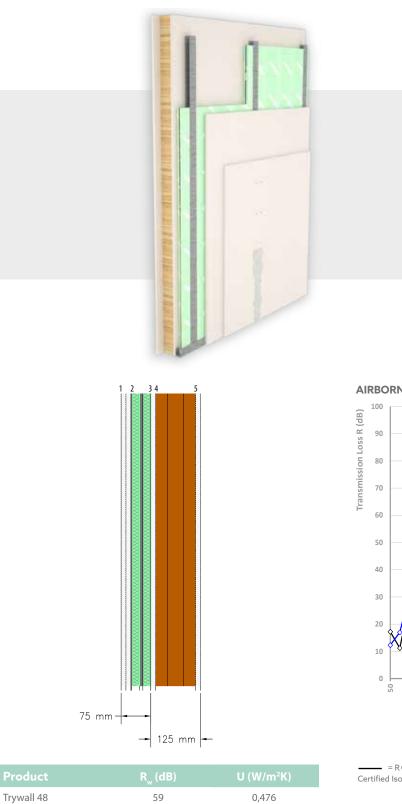
Product	R _w (dB)	U (W/m²K)
Trywall 48	74	0,320

AIRBORNE SOUND INSULATION



_____ = RCLT floor _____ = standard ISO 717-2 _____ = Rinsulated wall Certified Isolgomma laboratory values

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

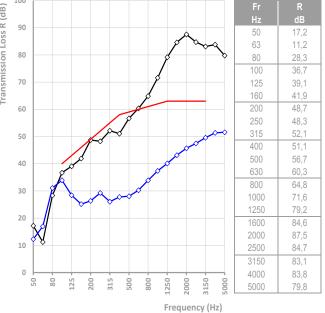


FLOORS

WALLS

ELASTIC JUNCTION





= R CLT floor = standard ISO 717-2 = R insulated wall Certified Isolgomma laboratory values

1. Double layer of plasterboard, th. 25 mm

2. Acoustic Insulation TRYWALL 48

- 3. Plasterboard, th. 12,5 mm
- 4. CLT wall, th. 100 mm
- 5. Plasterboard, th. 12,5 mm



ACOUSTIC INSULATION **ELASTIC JUNCTION**



Acoustic insulation and vibration control of CLT floors and walls

The strip JOINWOOD is a decoupling element for the reduction of lateral noise transmissions in CLT structures. The latter is the result of a research project that broadens the knowledge of the acoustic behaviour of wooden supporting structures which acoustic behaviour is improved through the introduction of this anti-vibration strip. JOINWOOD is made in rolls with hot-pressed SBR rubber granules and anchored to an anti-tear non-woven support. Resistant to compression, it maintains excellent elastic properties which guarantee a damping effect on the transmission of acoustic waves inside the CLT structure. Easy to use and to install, JOINWOOD is applicable within various configurations foreseen by the EN ISO 12354 standards for the management of Cross, X, T and L-shaped junctions. It is an element of primary importance for the improvement of the overall acoustic performance of the structure as well as for the damping of vibrations that can be propagated throughout the structure itself.

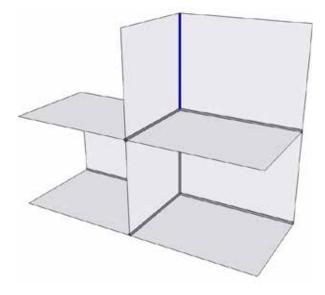
APPLICATION FIELDS

Joints for CLT structures

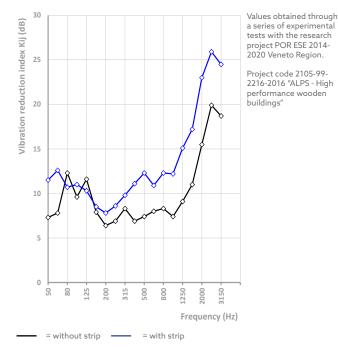
Technical features		Norm	JOINWOOD	
Thickness	mm	-	6	
Length	m	-	8	
Width	mm	-	100 - 140	
Density	kg/m³		800	
Thermal conductivity coefficient (λ)	W/m ² K	EN 12667	0,120	



LAYOUT FOR CROSS, T AND L-SHAPED JUNCTIONS



VIBRATION REDUCTION INDEX KIJ - L SHAPED JUNCTION



VIBRATION REDUCTION INDEX KIJ

The vibration reduction index is a fundamental indicator for lateral transmissions within the forecast calculation method of the levels of sound insulation in the field (R', L'n), according to the EN ISO 12354:2017 standard. This index, measured in accordance with EN ISO 10848: 2017, allows you to compare the performance of the joints of a structure or to set a requirement value. The data shown in the graph is part of an experimental study on CLT structures carried out in the laboratory in order to demonstrate the efficiency of the insulation strip compare to the non insulated structure.

With these values it is therefore possible, according to the forecast method of the EN ISO 12354: 2017 standard, to accurately predict the acoustic behaviour of the different partitions that make up the CLT structures.



ACOUSTIC INSULATION INDICATIONS FOR TIMBER STRUCTURES



Bottom layers

CONCRETE LAYER



Install the steel mesh on the whole surface of the wooden floor, then raise it to the desired height

LOOSE SAND FILLING



Install the honeycomb on the whole floor surface



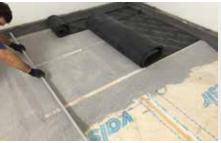
Realize the casting of the reinforced concrete



Fill the honeycomb with the heavy infill and level to obtain a smooth and plane surface



Level the concrete layer in order to get as smooth and plane as possible



Without a honeycomb, use wooden joists to level the loose sand to the desired height



Impact sound insulation mats

FLOATING SCREED



Install the Profyle edging strip along the perimeter walls (use Profyle Flat when insulation panels are used)

DRY SCREED



Install the edging strip Profyle Flat 5 along the perimeter walls



Install the acoustic insulation on the whole floor surface, with a particular care of the edges and the junctions



Install the acoustic insulation on the whole floor surface, with a particular care of the edges and the junctions



Install a reinforcement steel mesh where needed and cast the screed



Install the dry screed, with a particular care of the junctions between adjacent floor elements



ACOUSTIC INSULATION INSTALLATION INDICATIONS FOR TIMBER STRUCTURES



Ceiling

SUSPENDED CEILING ON A WOODEN STRUCTURE



Install the anti-vibration brackets and fasten the steel profiles to the brackets

SUSPENDED CEILING BETWEEN BEAMS



Fix the 50 mm steel studs to the beams' side using screws and Stywall S3-A rubber stripe



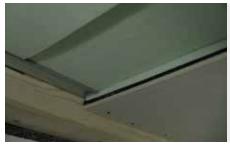
Insert the Fybro panels in the space between the beams, taking care of covering also the exposed lower part of the beams



Insert the Fybro panels (cut in the correct dimensions) in the cavity of the steel studs



Close the ceiling with a double layer of gypsum-board; seal the joints and edges with gypsum plaster



Fix the Rewall 40 insulation panels to the steel profiles using screws with minimum length 55 mm



Ceiling

SUSPENDED CEILING ON CLT STRUCTURE



Fix the steel U profiles to the walls at the perimeter of the ceiling

Flooring installation

CERAMIC OR WOODEN FLOORING



Lay the adhesive on the floor and install the ceramic tiles or the wooden flooring



Install the steel C/U profiles with a spacing of 40-60 cm; Fybro panels can be inserted in the cavity to improve thermal and acoustic insulation



Apply the grouting glue and clean the ceramic tiles



Close the ceiling with gypsum fibreboards; seal the joints and edges with gypsum plaster



Cut the exceeding part of the Profyle and remove it only when the floor finishing has been completely installed



ACOUSTIC INSULATION FOR TIMBER STRUCTURES **NOTES**









FLOORS

WALLS

ELASTIC JUNCTION



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