CATALOG OF SOUNDPROOFING MATERIALS

ZIPS®-Slim
ZIPS®-Vector
ZIPS®-III-Ultra
ZIPS®-Z4
ZIPS®-Modul
ZIPS®-Cinema
ZIPS®-FLOOR Vector
ZIPS®-FLOOR Modul

Soundline®-dB
Soundline®-PGP Super

Shumanet®-BM
Shumanet®-ECO
Shumanet®-Thermo
Shumanet®-Thermo ECO
Shumanet®-CK Neo
Shumanet®-100 Hydro
Shumanet®-100 Combi

Shumoplast®

Shumostop®-K2
Shumostop®-S2
Shumostop®-Techno

Akuflex®
Akuflex®-Super

Akufloor®-S20

AkuLite® SE

AKU-LINE®
AKU-LINE® PRO

ULTRAKUSTIK®-Hanger
ULTRAKUSTIK®-Socket Box
ULTRAKUSTIK®-Joint
ULTRAKUSTIK®-Vibroprofil
ULTRAKUSTIK®-Glue
ULTRAKUSTIK®-Sealant
ULTRAKUSTIK®-tape F100
ULTRAKUSTIK®-Membrane

Vibrostack® M100/150
Vibrostack® White M100/150

Vibroseal®

Vibroflex®-connect PP
Vibroflex®-connect PS
Vibroflex®-K15
Vibroflex®-K5
Vibroflex®-type 1-4
Vibroflex®-Wave
Vibroflex® LD

25 ACOUSTIC GROUP
VERIFIED BY ENGINEERS
PROVEN BY TIME

ABOUT US

The history of the Acoustic Group dates back to 1999, when a group of engineers invented a product that was unique in its acoustic characteristics for additional soundproofing of walls and ceiling slabs of premises, which was later named the "ZIPS® panel system". The same year witnessed the decision regarding the start of business activities on development and promotion of innovative products in building acoustics, as well as solution for typical soundproofing issues in industrial and civil construction.

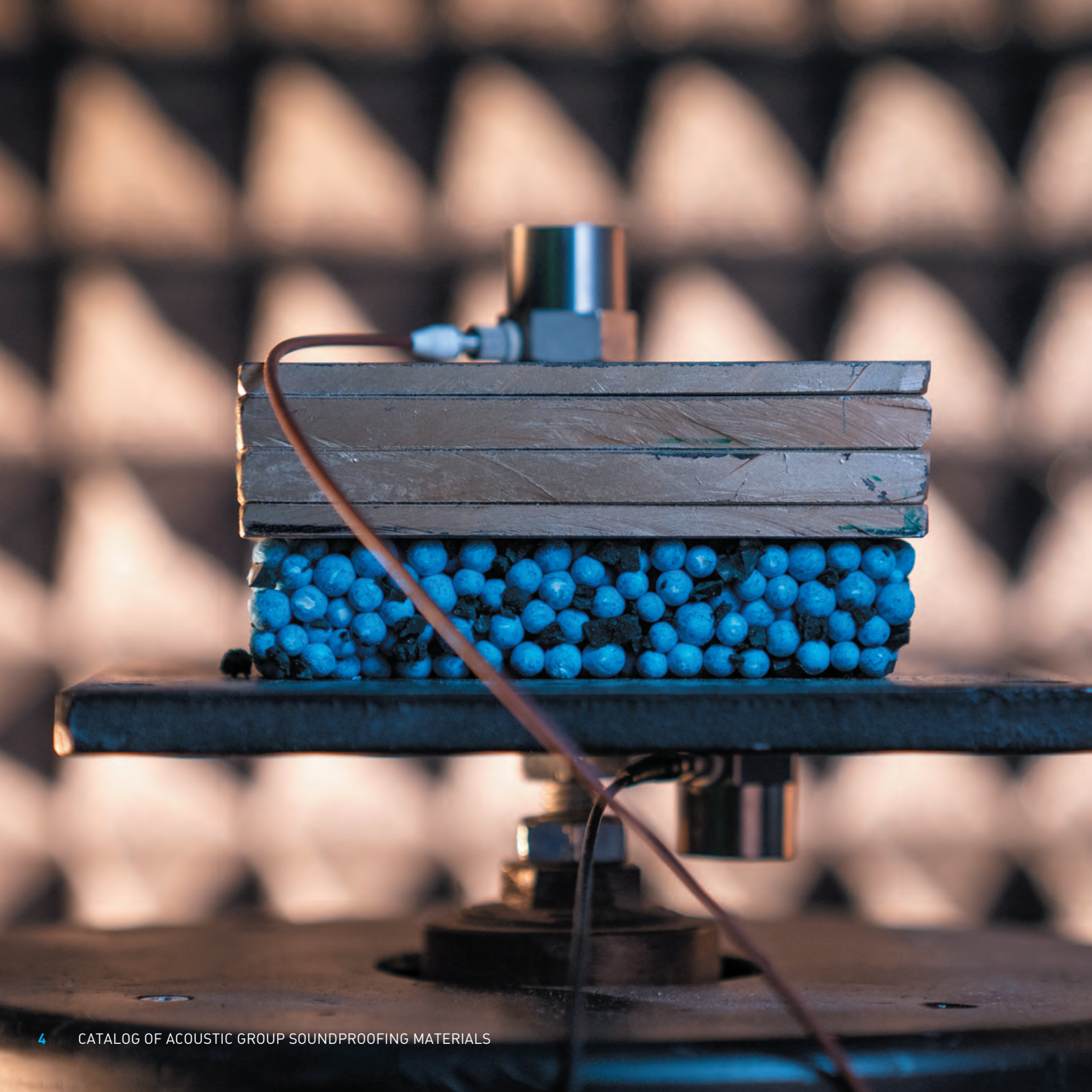
Currently, Acoustic Group is a group of companies that includes 5 manufacturing plants in Russia (Moscow Region, St. Petersburg, Kazan) and in Eastern Europe (Belgrade), as well as a distribution network in 14 cities throughout Russia, the CIS countries, Eastern Europe and a representative office in the UAE.

25 ACOUSTIC GROUP
VERIFIED BY ENGINEERS
PROVEN BY TIME

CONTENT

This catalog contains a complete list of materials designed for soundproofing residential and commercial premises with maximum efficiency.

The presented materials of the Acoustic Group trade name have been successfully tested and have confirmed their high performance not only in laboratory tests, but also in practice.



ACOUSTIC GROUP

is:

14 offices

5 production complexes in Russia, the CIS countries and Europe

25 years

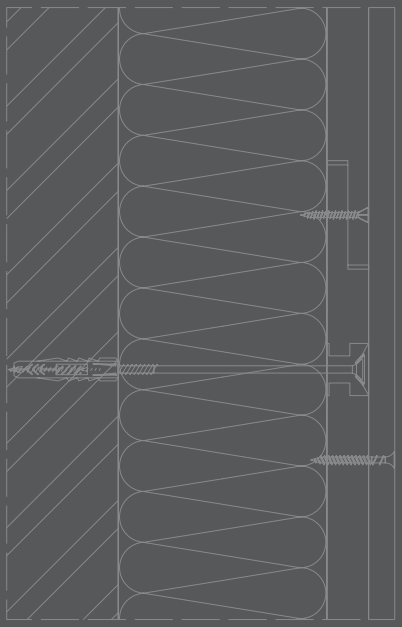
Effective noise reduction and improvement of acoustic comfort of premises

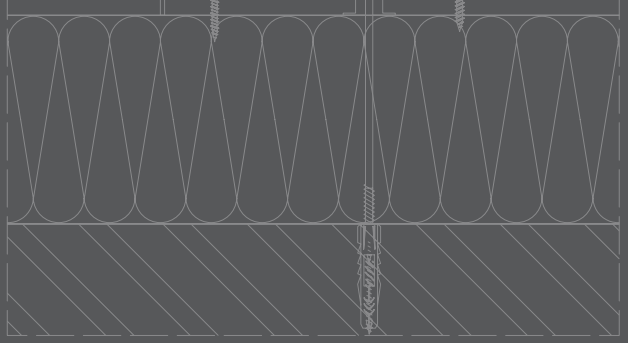
Complex of small acoustic chambers

Materials and structures for insulation of air-borne and shock noise, for vibration insulation of engineering equipment and entire buildings

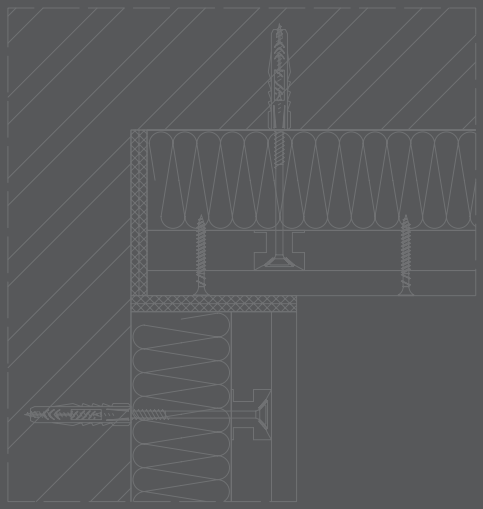
Patents for inventions and utility models

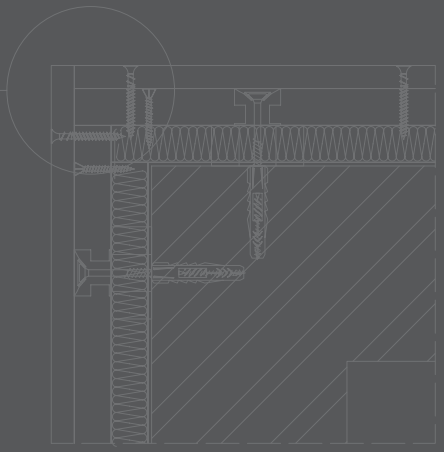
Research and development, acoustic measurements, design and educational work

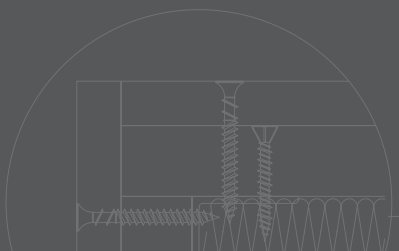


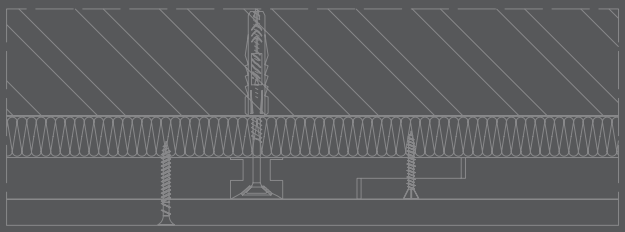


ZIPS SOUNDLINE









PANELS FOR FRAMELESS SOUNDPROOFING

Frameless soundproofing panel systems allow to effectively combat the spread of noise. Each panel has built-in vibration insulating joints made using patented VIBRID® technology, which provides increased structural strength and acoustic efficiency.

For each panel, this section provides parameters to help you make your choice: thickness, ΔR_w (additional airborne sound insulation), composition and method of application.

ZIPS®-SLIM

Ultra-thin soundproofing panel system

ZIPS-SLIM is an ultra-thin panel system for additional soundproofing of walls made of foam and aerated concrete blocks, as well as gypsum tongue-and-groove boards with a thickness of max. 200 mm.

APPLICATION

The system is designed for residential premises where it is important to preserve each centimeter of usable space. With a thickness of only 37.5 mm, the design allows for standard soundproofing performance for inner apartment walls made of aerated concrete, foam concrete and gypsum blocks.

ZIPS-SLIM is effective against most household noises of medium intensity, typical for most apartment buildings: neighbors talking, children crying, dogs barking, noise of household appliances.

Not used on floor slabs.

ΔR_w **11 dB** additional soundproofing

37,5 mm structure thickness

fasteners included

1200 × 600 mm panel working dimensions

19,5 kg panel weight

FEATURES

- Thinnest panel in the ZIPS line – 25 mm
- High efficiency with minimal thickness
- Patented new generation VIBRID® vibration insulating joints provide increased structural strength and acoustic efficiency
- Vibration insulating supports made of elastomer with improved dynamic properties
- Frameless surface mount for easy and quick installation

COMPOSITION

The ZIPS SLIM panel is a combination of a 20 mm tongue-and-groove layer of moisture-resistant gypsum plasterboard and 4 mm elastic multilayer fiberglass. Each sandwich panel contains 8 new generation VIBRID vibration insulating fastening joints with Sylodyn elastomer supports, by means of which the panel is mounted to walls.

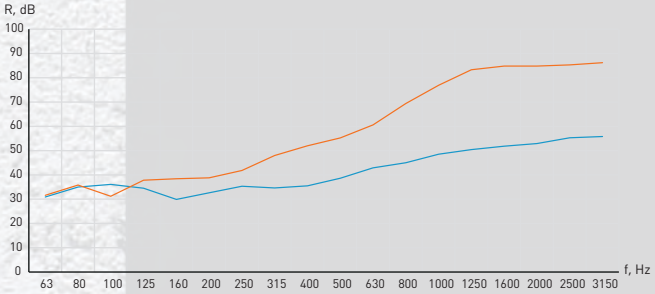
INSTALLATION

ZIPS SLIM soundproofing panel system consists of 25 mm thick sandwich panels and special 12.5 mm thick finishing gypsum boards AKU-LINE, vibration insulating tape Vibrostack-M/Vibrostack-White/ ULTRAKUSTIK-tape F100 and vibroacoustic sealant Vibroseal. The delivery set of sandwich panels includes all necessary fasteners.

Product details

AIR-BORNE SOUND INSULATION

Acoustic tests were carried out by the acoustics laboratory of Nizhny Novgorod State University of Architecture and Civil Engineering, Nizhny Novgorod. Test report No. 2017/01/17 - 01, No. 2017/01/17 - 02



— Partition made of D600 gas silicate blocks, 200 mm thick, with ZIPS-SLIM system mounted on it, R_w = 55 dB

— Partition made of D600 gas silicate blocks, 200 mm thick, R_w = 44 dB

SPECIFICATIONS

Surface density of ZIPS Slim system assembly	36.5 kg/m^2
Index of additional air-borne sound insulation, ΔR_w	11 dB

CERTIFICATES

Environmental standard
Ecomaterial 2.0

Combustibility group	G1
Flammability group	V1
Smoke generation ability group	D1
Combustion product toxicity group	T1

ZIPS®-VECTOR

Entry-level soundproofing panel system

ZIPS-VECTOR is a thin system for additional soundproofing of ceiling slabs and walls made of plaster, brick and concrete.

APPLICATION

Most often used for soundproofing in apartment buildings, private houses and office premises. Successfully solves the problem of reducing low-intensity everyday noise: neighbors talking, TV sound, telephone conversations, noise from office equipment.

ΔR_w 14 dB	additional soundproofing
53 mm	structure thickness
	fasteners included
1200 x 600 mm	panel working dimensions
19,5 kg	panel weight

FEATURES

- Patented new generation VIBRID® vibration insulating joints provide increased structural strength and acoustic efficiency
- Frameless surface mount for easy and quick installation

COMPOSITION

The **ZIPS-VECTOR** panel is a combination of a tongue-and-groove layer of 20 mm moisture-resistant gypsum plasterboard and staple fiberglass with high mechanical strength. Each sandwich panel contains 8 new generation VIBRID vibration insulating fastening joints.

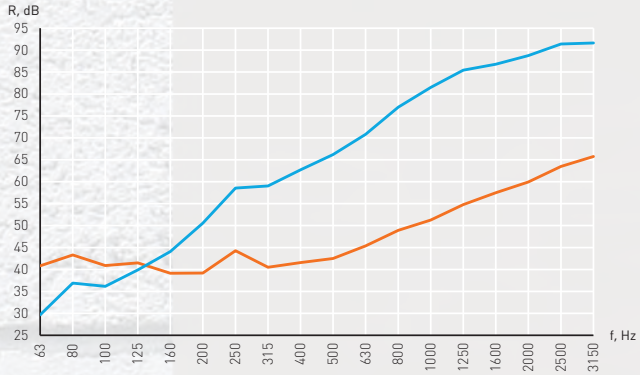
INSTALLATION

The soundproofing **panel system ZIPS VECTOR** consists of 40 mm thick sandwich panels and special 12.5 mm thick finishing gypsum boards AKU-LINE, vibration insulating tape Vibrostack-M/Vibrostack-White/ ULTRAKUSTIK-tape F100 and vibroacoustic sealant Vibroseal. The delivery set of sandwich panels includes all necessary fasteners.

Product details

AIR-BORNE SOUND INSULATION

Acoustic tests were carried out by the acoustics laboratory of Nizhny Novgorod State University of Architecture and Civil Engineering, Nizhny Novgorod. Test report No. 2017/01/12 - 01, No. 2017/01/12 - 02



— Sand-lime brick partition, 120 mm thick, R_w=50 dB

— Sand-lime brick partition with ZIPS-VECTOR system mounted on it, R_w=64 dB

SPECIFICATIONS

Surface density of ZIPS-Vector system assembly	38 kg/m^2
Index of additional air-borne sound insulation, ΔR_w	14 dB

CERTIFICATES

Environmental standard
Ecomaterial 2.0

Combustibility group	G1
Flammability group	V1
Smoke generation ability group	D1
Combustion product toxicity group	T1

ZIPS® III-ULTRA

3rd generation soundproofing panel system

ZIPS III-ULTRA is a system for additional soundproofing of ceiling slabs and walls made of plaster, brick and concrete. It has the optimal thickness/efficiency ratio in the ZIPS line. With a thickness of only 55 mm, it increases the soundproofing performance of single-layer building structures to 18 dB.

APPLICATION

The **ZIPS III-ULTRA** system is effective against most household noises: crying, dogs barking, medium-power television and radio equipment. Mainly used in residential premises: apartments and cottages.

ΔR_w **18 dB** additional soundproofing

55 mm structure thickness

fasteners included

1200 x 600 mm panel working dimensions

20 kg panel weight

FEATURES

- The most efficient in terms of thickness/result ratio
- Vibration insulating supports made of Sylomer elastomer with improved dynamic properties
- Patented new generation VIBRID® vibration insulating joints provide increased structural strength and acoustic efficiency
- Frameless surface mount for easy and quick installation

COMPOSITION

The **ZIPS III-ULTRA** sandwich panel is a combination of a 20 mm tongue-and-groove layer of moisture-resistant gypsum plasterboard and a 20 mm fiberglass board with high mechanical strength.

Each sandwich panel contains 8 VIBRID vibration insulating fastening joints of new VIBRID generation with Sylodyn elastomer supports, by means of which the panel is mounted to walls and ceiling slabs.

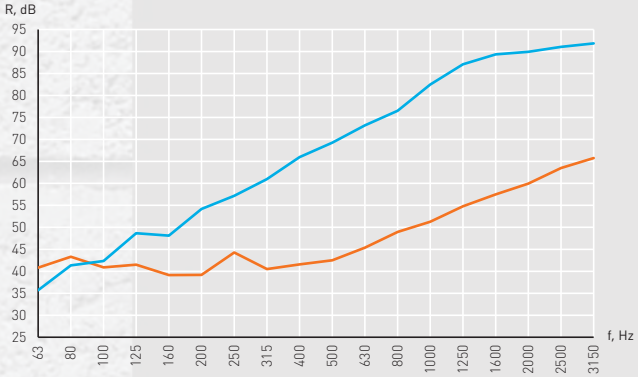
INSTALLATION

The soundproofing **panel system ZIPS III-ULTRA** consists of 42.5 mm thick sandwich panels and special 12.5 mm thick finishing gypsum boards AKU-LINE, vibration insulating tape Vibrostack-M/Vibrostack-White/ ULTRAKUSTIK-tape F100 and vibroacoustic sealant Vibroseal. The delivery set of sandwich panels includes all necessary fasteners.

Product details

AIR-BORNE SOUND INSULATION

Acoustic tests were carried out by the acoustics laboratory of Nizhny Novgorod State University of Architecture and Civil Engineering, Nizhny Novgorod. Test report No. 2017/01/12 - 01, No. 2017/01/12 - 04



— Sand-lime brick partition, 120 mm thick, R_w=50

— Sand-lime brick partition with ZIPS III-ULTRA system mounted on it, R_w=68 dB

SPECIFICATIONS

Surface density of ZIPS III-Ultra system assembly	38 kg/m^2
Index of additional air-borne sound insulation, ΔR_w	18 dB

CERTIFICATES

Environmental standard
Ecomaterial 2.0

Combustibility group	G1
Flammability group	V1
Smoke generation ability group	D1
Combustion product toxicity group	T1

ZIPS®-Z4

4th generation soundproofing panel system

ZIPS-Z4 is a IV generation system for additional soundproofing of ceiling slabs and walls made of plaster, brick and concrete, with a surface leveling function. With a thickness of only 55 mm (excluding the space between insulation and insulated surface due to adjustment), it improves soundproofing performance to 19 dB.

APPLICATION

It is ideal for installation on unprepared surfaces and effectively copes with most types of household noise: loud conversations, barking dogs, crying children, household appliances.

ΔR_w 19 dB additional soundproofing

55 mm structure thickness

additional elements for alignment

fasteners included

1200 x 600 mm panel working dimensions

FEATURES

- Leveling of uneven surfaces up to 50 mm
- Patented VIBRID® vibration insulating joints provide increased structural strength and acoustic efficiency
- Vibration insulating supports made of Sylomer elastomer with improved dynamic properties
- Frameless surface mount for easy and quick installation

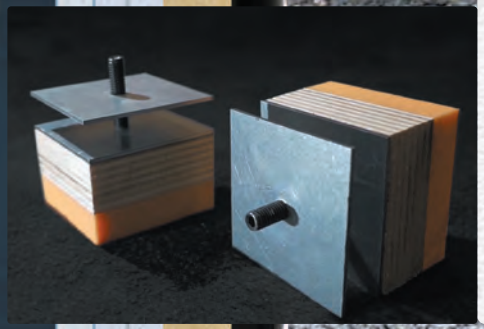
COMPOSITION

The **ZIPS-Z4** sandwich panel is a combination of a 20 mm tongue-and-groove moisture-resistant gypsum plasterboards and a 20 mm fiberglass board with high mechanical strength.

Each sandwich panel contains 8 new VIBRID generation VIBRID vibration insulating fastening joints, by means of which the panels are mounted, and 6 supports made of Sylodyn elastomer, by means of which the enclosing structure is aligned.

INSTALLATION

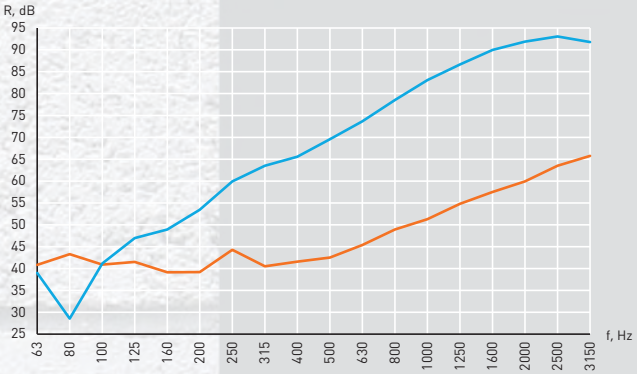
The soundproofing panel system **ZIPS-Z4** consists of 42.5 mm thick sandwich panels and special 12.5 mm thick finishing gypsum boards AKU-LINE, vibration insulating tape Vibrostack-M/White/ULTRAKUSTIK-tape F100 and silicone vibroacoustic sealant Vibroseal. The delivery set of sandwich panels includes all necessary fasteners.



Product details

AIR-BORNE SOUND INSULATION

Acoustic tests were carried out by the acoustics laboratory of Nizhny Novgorod State University of Architecture and Civil Engineering, Nizhny Novgorod. Test report No. 2017/01/12 - 01, No. 2017/01/12 - 05



— Sand-lime brick partition, 120 mm thick, R_w=50 dB

— Sand-lime brick partition, 120 mm thick, with ZIPS Z4 system mounted on it, R_w=68 dB

SPECIFICATIONS

Panel weight	20,5 kg
Surface density of ZIPS-Z4 system assembly	39 kg/m^2
Index of additional air-borne sound insulation, ΔR_w	19 dB

CERTIFICATES

Environmental standard
Ecomaterial 2.0

Combustibility group	G1
Flammability group	V1
Smoke generation ability group	D1
Combustion product toxicity group	T1

ZIPS®-MODUL

Basic level soundproofing panel system

ZIPS-MODUL is a system for additional soundproofing of ceiling slabs and walls made of plaster, brick and concrete. It has the optimal price/efficiency ratio in the ZIPS line.

APPLICATION

It is used for soundproofing of any premises. Provides effective protection of the room against medium-intensity noise: sounds from office equipment, telephone conversations, home theater, music, footsteps in hallway, sound of air conditioner, etc.

ΔR_w **18 dB** additional soundproofing

83 mm structure thickness

fasteners included

1200 x 600 mm panel working dimensions

20,5 kg panel weight

FEATURES

- Patented new generation VIBRID® vibration insulating joints provide increased structural strength and acoustic efficiency
- The most optimal ZIPS system in terms of price/efficiency ratio
- Frameless surface mount for easy and quick installation

COMPOSITION

The **ZIPS-MODUL** panel is a combination of a 20 mm tongue-and-groove layer of moisture-resistant gypsum plasterboard and a 50 mm basalt fiber board. Each sandwich panel contains 8 vibration insulating fastening joints made using the patented VIBRID technology

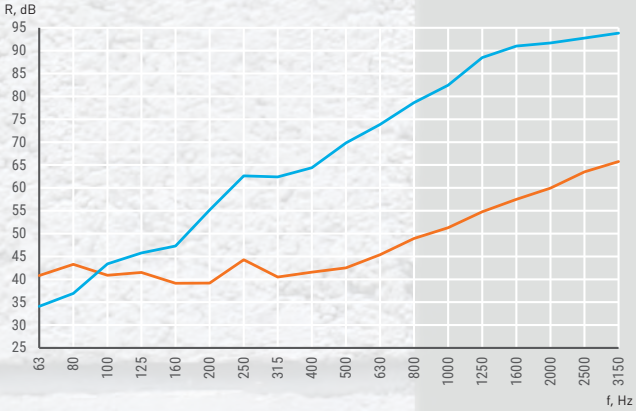
INSTALLATION

The soundproofing **panel system ZIPS-MODUL** consists of 70 mm thick sandwich panels and special 12.5 mm thick finishing gypsum boards AKU-LINE, vibration insulating tape Vibrostack-M/Vibrostack-White/ULTRAKUSTIK-tape F100 and vibroacoustic sealant Vibroseal. The delivery set of sandwich panels includes all necessary fasteners.

Product details

AIR-BORNE SOUND INSULATION

Acoustic tests were carried out by the acoustics laboratory of Nizhny Novgorod State University of Architecture and Civil Engineering, Nizhny Novgorod. Test report No. 2017/01/12 - 01, No. 2017/01/12 - 03



— Sand-lime brick partition, 120 mm thick, R_w=50 дБ

— Sand-lime brick partition, 120 mm thick, with ZIPS-MODUL system mounted on it, R_w=68 дБ

SPECIFICATIONS

Surface density of ZIPS-Modul system assembly	39 kg/m^2
Index of additional air-borne sound insulation, ΔR_w	18 dB

CERTIFICATES

Environmental standard Ecomaterial 2.0

Combustibility group	G1
Flammability group	V1
Smoke generation ability group	D1
Combustion product toxicity group	T1

ZIPS®-CINEMA

High-level soundproofing panel system

ZIPS-CINEMA is a professional-grade system for additional soundproofing of ceiling slabs and walls made of plaster, brick and concrete.

APPLICATION

The **ZIPS-CINEMA** system is most often used for soundproofing in karaoke, cinema and concert halls, night clubs, movie theaters, recording studios, as well as in premises located near production facilities, etc.

The system allows achieving the maximum level of noise reduction when used as additional soundproofing.

ΔR_w **21 dB** additional soundproofing

133 mm structure thickness

fasteners included

1200 x 600 mm panel working dimensions

21 kg panel weight

FEATURES

- The system is designed for professional soundproofing
- Patented new generation VIBRID® vibration insulating joints provide increased structural strength and acoustic efficiency
- Frameless surface mount for easy and quick installation

COMPOSITION

The **ZIPS-CINEMA** panel is a combination of a 20 mm tongue-and-groove layer of moisture-resistant gypsum plasterboard and a 100 mm basalt fiber board. Each sandwich panel contains 8 vibration insulating fastening joints made using the patented VIBRID technology

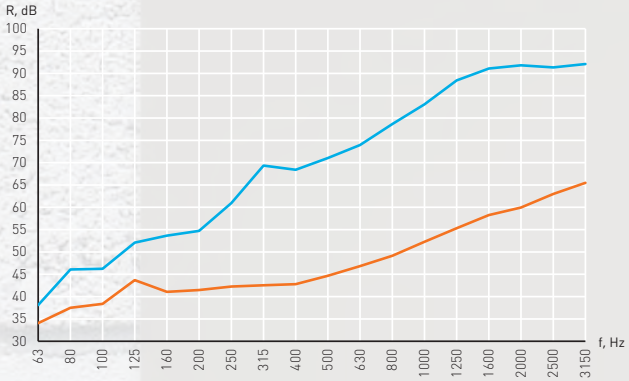
INSTALLATION

Soundproofing **panel system ZIPS-CINEMA** consists of 120 mm thick sandwich panels and special 12.5 mm thick finishing gypsum boards AKU-LINE, vibration insulating tape Vibrostack-M/Vibrostack-White and vibroacoustic sealant Vibroseal.
The delivery set of sandwich panels includes all necessary fasteners.

Product details

AIR-BORNE SOUND INSULATION

Acoustic tests were carried out by the acoustics laboratory of Nizhny Novgorod State University of Architecture and Civil Engineering, Nizhny Novgorod. Test report No. 2017/01/13 - 01, No. 2017/01/13 - 07



— Sand-lime brick partition, 120 mm thick, R_w=51 dB
— Sand-lime brick partition, 120 mm thick, with ZIPS-CINEMA system mounted on it, R_w=72 dB

SPECIFICATIONS

Surface density of ZIPS-Cinema system assembly	39 kg/m^2
Index of additional air-borne sound insulation, ΔR_w	21 dB

CERTIFICATES

Environmental standard
Ecomaterial 2.0

Combustibility group	G1
Flammability group	V1
Smoke generation ability group	D1
Combustion product toxicity group	T1

SOUNDLINE®-PGP SUPER

Panel system for soundproofing thin walls and partitions

The **SOUNDLINE-PGP SUPER** panels are used to increase soundproofing of interior partitions made of tongue-and-groove gypsum boards and aerated concrete with a thickness of max. 100 mm.

APPLICATION

It is used for soundproofing lightweight single-layer partitions made of plasterboard or aerated concrete. Provides effective soundproofing performance with minimal structural thickness.

IMPORTANT! The thin partition should be sheathed with Soundline-PGP Super panels only on one side.

ΔR_w **10 dB** additional soundproofing

23 mm structure thickness

1200 x 600 mm panel working dimensions

17,5 kg panel weight

FEATURES

- Small panel thickness - only 23 mm
- Additional soundproofing of partition – up to 10 dB
- Very easy installation - no need for cushion layers and sealants

COMPOSITION

Gypsum fiber tongue-and-groove element (20 mm thick), multilayer glass-fiber mat (4 mm thick), compensating washers (24 mm in diameter).

INSTALLATION

The **SOUNDLINE-PGP SUPER** panels are mounted without a gap or frame from the bottom up, from left to right, on any side of a thin partition 80-100 mm thick.

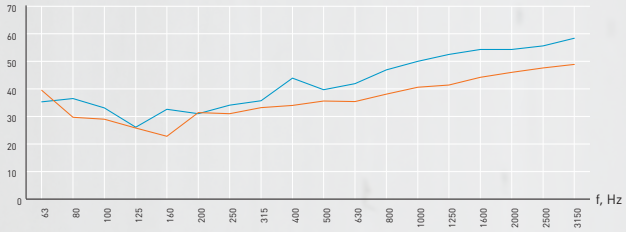
The **SOUNDLINE-PGP SUPER** panels are fastened using universal self-tapping screws or impact anchors. After installation, the tongue-and-groove joints are additionally tightened together with self-tapping screws on gypsum plasterboard.

Product details

AIR-BORNE SOUND INSULATION

Acoustic tests were carried out by the acoustic measurement laboratory of the Scientific-Research Institute of Building Physics of the Russian Academy of Architecture and Construction Sciences, Moscow.

Test report No. 2015/229/01 dated 19.01.2016
Test report No. 2015/229/02 dated 19.01.2016



— Air-borne sound insulation for walls made of hollow 80 mm thick tongue-and-groove blocks, R_w=39 dB

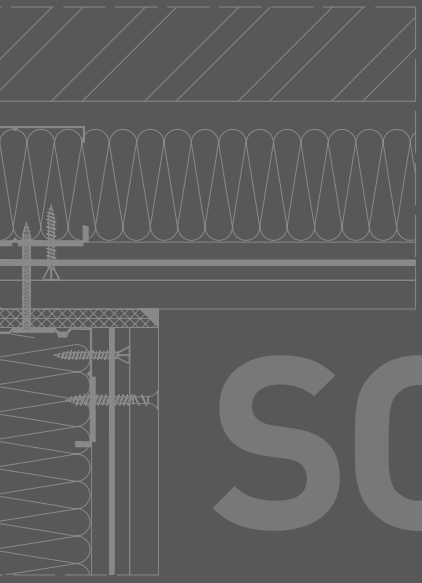
— Air-borne sound insulation for walls made of hollow 80 mm thick tongue-and-groove blocks and sheathed with Soundline-PGP Super panels, R_w=45 dB

SPECIFICATIONS

Surface density	24,3 kg/m^2 ± 5%

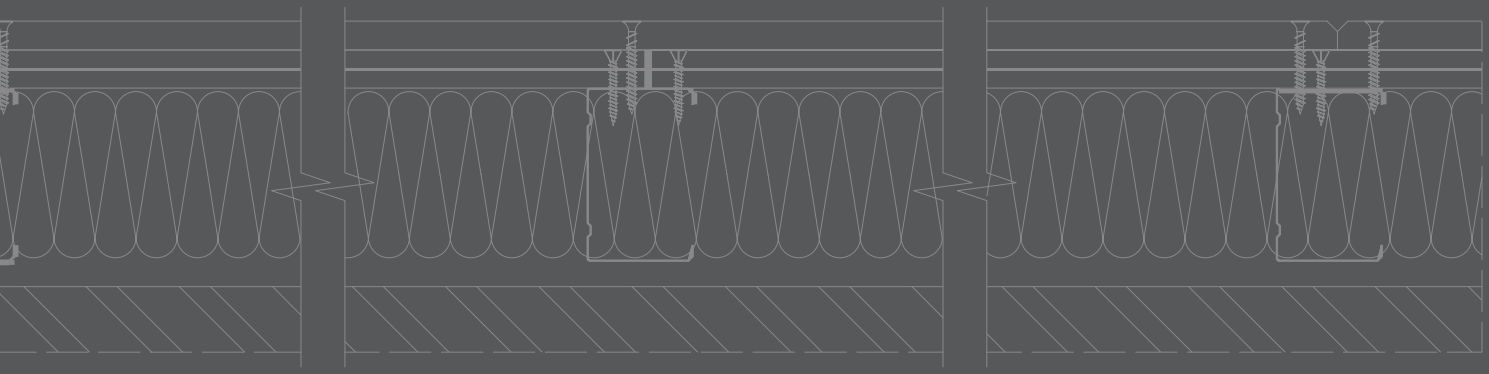
CERTIFICATES

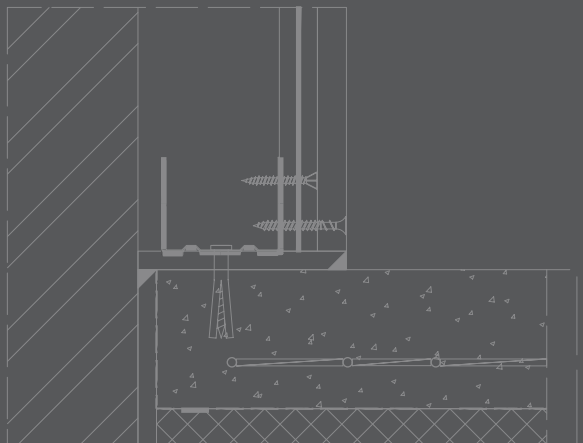
Combustibility group	G1
Flammability group	V1
Smoke generation ability group	D1
Combustion product toxicity group	T1

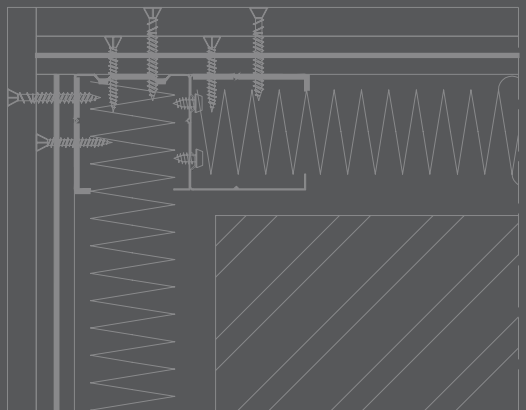


SOUNDLINE

AKU-LINE AKU-LINE PRO







HEAVY SOUNDPROOFING BOARDS

High density soundproofing boards. They are used as sheathing in the structures of framed partitions, lining of walls and suspended ceilings, and finishing lining of frameless ZIPS systems.

SOUNDLINE®-dB

Acoustic triplex

SOUNDLINE-dB is an acoustic triplex based on special heavy moisture-resistant gypsum plasterboard and a layer of elastic-resilient sealant. Significantly increases the effectiveness of soundproofing and building structures in the fight against extraneous noise with a thickness of only 16.5 mm.

APPLICATION

It is used as a lining layer in the structures of soundproofing partitions, lining of walls and suspended ceilings on a metal frame, as well as in ZIPS Floor structures.

R_w 75* dB — partition soundproofing using Soundline-dB

16,5 mm — panel thickness

30 kg — panel weight

1200 x 1200 mm — panel working dimensions

S 1,44 m² —

FEATURES

- Provides better results of additional soundproofing compared to moisture-resistant gypsum plasterboards of equal surface density. High performance is achieved due to the elastic connection between the separated rigid layers
- The unique operating principle of the material is patented
- Eco-friendly material: made on the basis of moisture-resistant gypsum plasterboard, safe for humans, which is confirmed by the EcoMaterial eco-label
- Low-combustible material
- Maintains consistently high acoustic performance for over 25 years

COMPOSITION

Soundline-dB acoustic triplex consists of two layers of special thin but weighted soundproofing moisture-resistant gypsum plasterboards with a thickness of 8 mm, separated by a layer of elastic-resilient acoustic sealant.

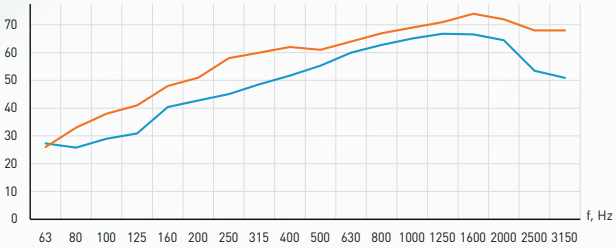
INSTALLATION

SOUNDLINE-dB acoustic triplex boards are mounted on the metal frame of the partition, lining of walls, suspended ceiling and ZIPS Floor using self-tapping screws for moisture-resistant gypsum plasterboards.
The overlapping joints are sheathed with a finishing layer of AKU-LINE gypsum boards.

Product details

AIR-BORNE SOUND INSULATION

Acoustic tests were carried out by the acoustics laboratory of Nizhny Novgorod State University of Architecture and Civil Engineering, Nizhny Novgorod. Test report No. 2017/01/11 - 04 dated 30 September 2021



— Partition based on VIBROFLEX-Wave 100mm section, sheathed on each side with Soundline-dB board and Akuline board (29 mm each), R_w = 64 dB

— Partition based on PS 100mm section, sheathed on each side with 2 gypsum boards (25 mm each), R_w = 53 dB

SPECIFICATIONS

Surface density	20,5 kg/m^2
*achievable efficiency of soundproofing structure using Soundline-dB, ΔR_w	75 dB

*Depending on the design

CERTIFICATES

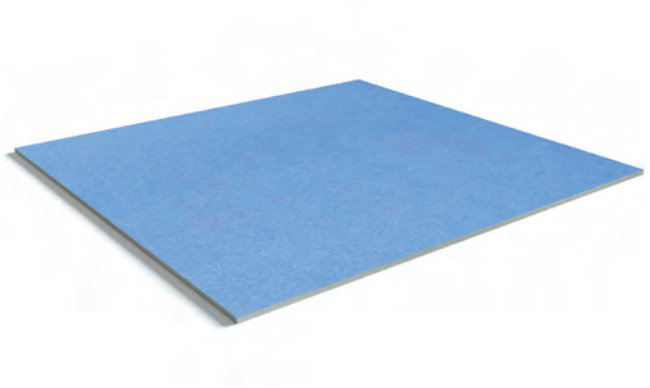
Environmental standard
Ecomaterial 2.0

Combustibility group	G1
Flammability group	V1
Smoke generation ability group	D1
Combustion product toxicity group	T1

AKU-LINE®

Soundproofing gypsum boards

AKU-LINE soundproofing gypsum boards are used in the structures of framed partitions, lining of walls and suspended ceilings. **AKU-LINE** boards are also used as finishing lining for ZIPS panels.
Special production technology combined with increased density guarantee high acoustic characteristics.



APPLICATION

In accordance with SP 163.1325800.2014 (clause 6.1.1 and Appendix D.1), **AKU-LINE** boards are used to construct structures that have increased soundproofing requirements.

12,5 mm board thickness

36 kg / 29 kg board weight

2500 x 1200 mm board dimensions

S 3 m²

2000 x 1200 mm special board dimensions

S 2,4 m²

FEATURES

- Good soundproofing properties
- High strength and specific gravity performance
- Made from high-quality raw materials, which significantly speeds up the finishing process and improves its quality
- Availability of ready-made solutions for use in various premises
- The special shape of the Pro-edge allows to create a very strong joint, significantly reducing the consumption of putty to fill it
- The presence of marks on the front side of the board indicating the places for fastening self-tapping screws speeds up the installation of structures made of **AKU-LINE** boards

COMPOSITION

The boards consist of a fiberglass reinforced gypsum core with special additives, cladded with lilac-colored cardboard.

INSTALLATION

AKU-LINE gypsum boards are installed in strict accordance with the installation instructions given in the album “Saint-Gobain Soundproofing Systems for Hotels, Offices and Cinemas” or the engineering solutions album “Soundproofing Structures” ASP 601 0921. The albums are available in electronic form on the acoustic.ru website in the “Knowledge Base” section.

Product details

SPECIFICATIONS

Surface density	12 kg/m^2
Heat conductivity factor, max.	0,25 W/(m*K),
Vapor permeability, min.	0,075 mg/(m*h*Pa)

CERTIFICATES

Combustibility group	G1
Flammability group	V2
Smoke generation ability grou	D1
Combustion product toxicity group	T1

AKU-LINE® PRO

Soundproofing gypsum boards

AKU-LINE PRO boards are designed for use inside premises of any purpose with dry, normal and humid humidity conditions (as per SNiP 23 02 2003 or SP 50.13330.2012), the finishing of which has increased requirements for surface quality, impact resistance, moisture and fire resistance and soundproofing.

APPLICATION

AKU-LINE PRO soundproofing gypsum boards are used in the installation of frameless ZIPS systems, framed soundproofing lining of walls, partitions and suspended ceilings.

12,5 mm board thickness

30 kg board weight

2500 x 1200 mm board dimensions

S 3 m²

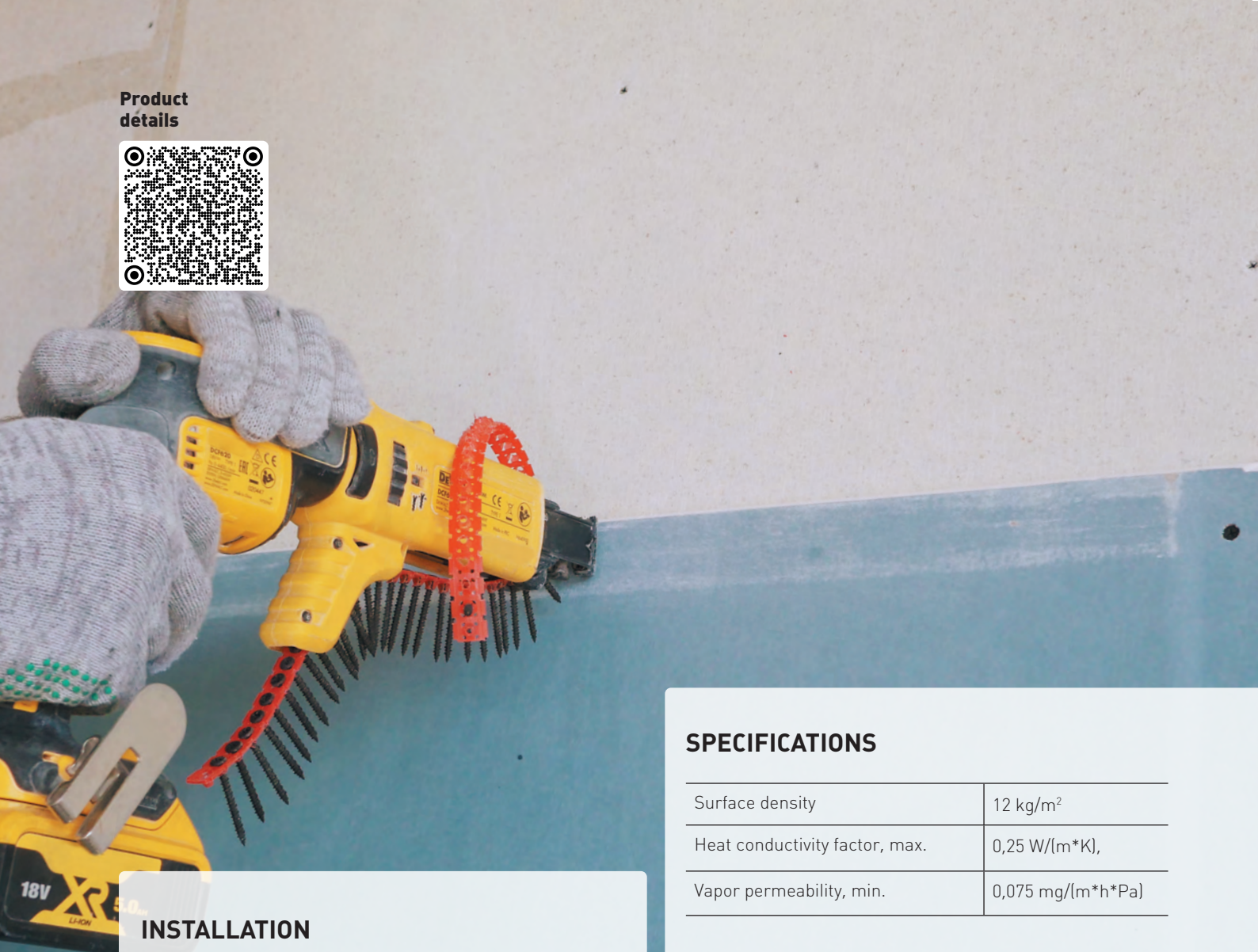
FEATURES

- Increased soundproofing characteristics
- Increased strength of boards, smoothness and hardness of the front surface speeds up the finishing process and improves its quality
- The special shape of the Pro-edge allows to create a very strong joint, significantly reducing the consumption of putty to fill it
- The presence of marks on the front side of the board indicating the places for fastening self-tapping screws speeds up the installation of the structure
- Increased fire safety, moisture resistance and environmental friendliness
- Durability of structures using **AKU-LINE PRO** boards

COMPOSITION

The boards consist of a fiberglass reinforced gypsum core with special additives, cladded with cardboard. The front cardboard of the board has lilac color.

Product details



INSTALLATION

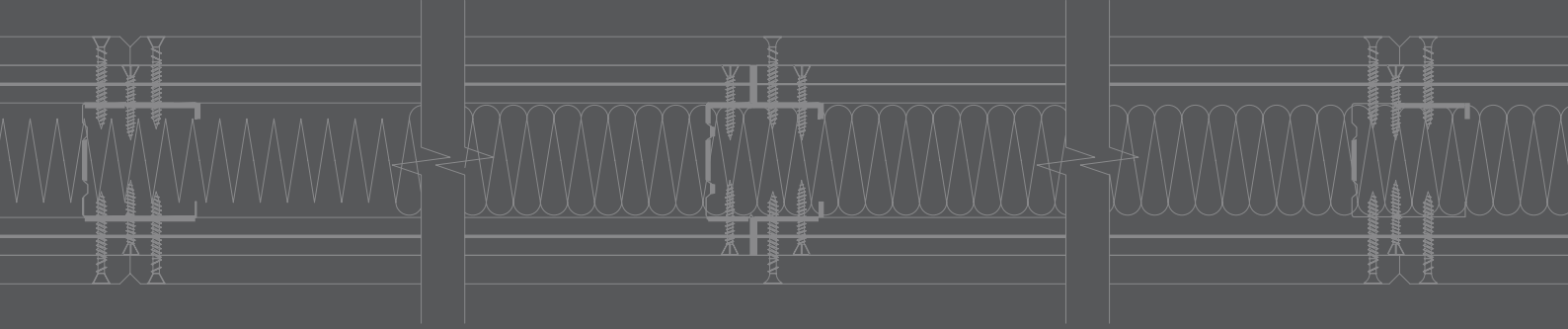
AKU-LINE PRO gypsum boards are installed in strict accordance with the installation instructions given in the album “Saint-Gobain Soundproofing Systems for Hotels, Offices and Cinemas” or the engineering solutions album “Soundproofing Structures” ASP 601 0921.
They are available as an album, as well as in electronic form on the acoustic.ru website in the “Knowledge Base” section.

SPECIFICATIONS

Surface density	12 kg/m^2
Heat conductivity factor, max.	0,25 W/(m*K),
Vapor permeability, min.	0,075 mg/(m*h*Pa)

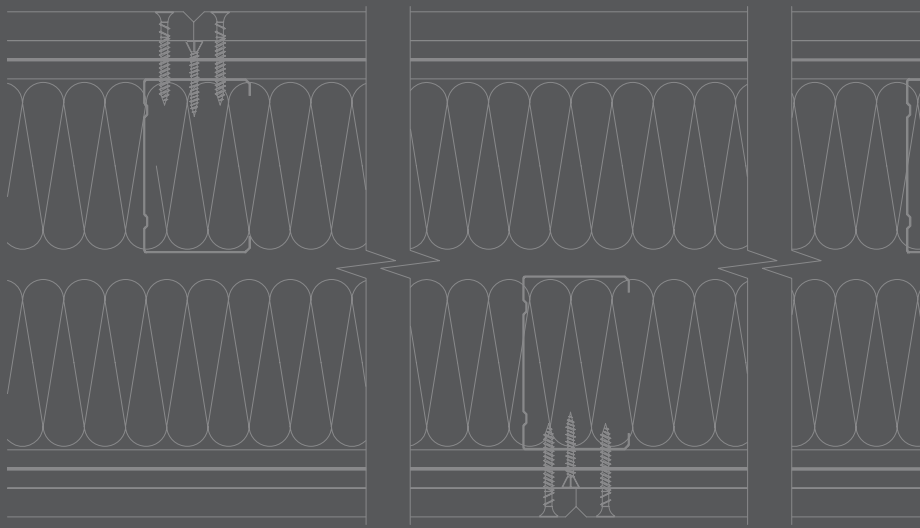
CERTIFICATES

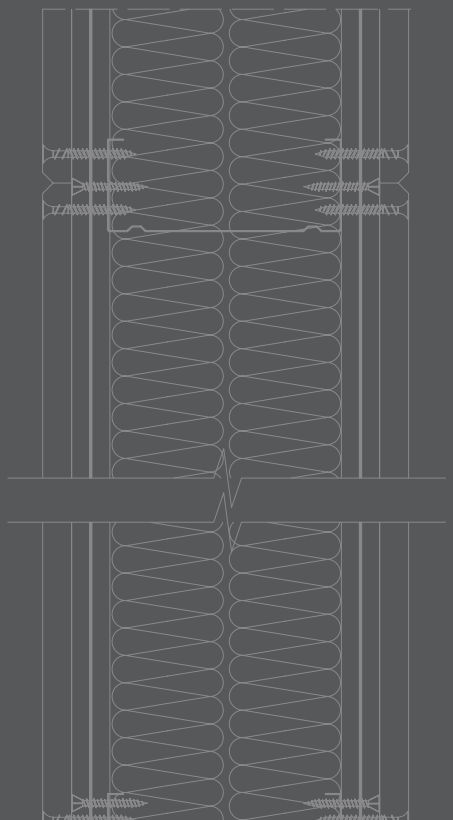
Combustibility group	G1
Flammability group	V1
Smoke generation ability group	D1
Combustion product toxicity group	T1

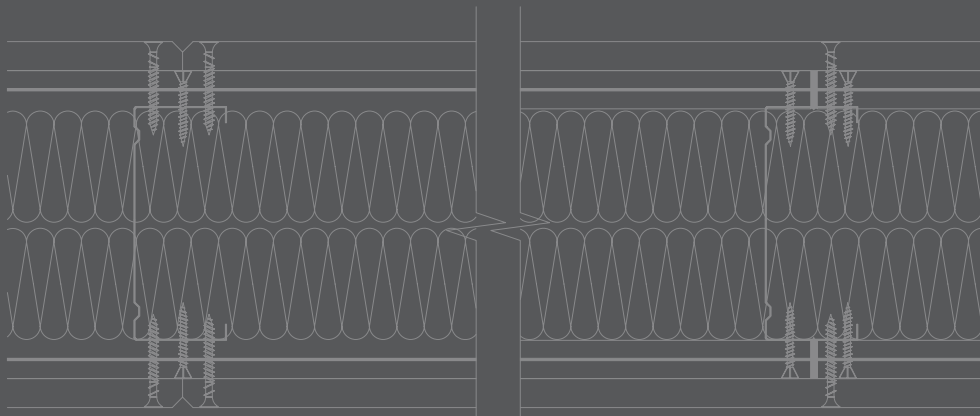


SHUMANET

AKULITE







ACOUSTIC MINERAL BOARDS

Acoustic mineral boards are designed for use as an internal layer in soundproofing and sound-absorbing structures: framed partitions, wall lining, suspended ceilings and floors over joists.

For each material, this section provides parameters to help you make your choice: thickness, αw (sound absorption index), composition and method of application.

SHUMANET®-ECO

Eco-friendly sound-absorbing boards

SHUMANET-ECO boards are designed for use in soundproofing and sound-absorbing structures as an internal sound-absorbing layer.

APPLICATION

SHUMANET-ECO boards are used as a sound-absorbing layer for framed partitions, lining of walls, suspended ceilings and floor over joists.

The specifications of **SHUMANET-ECO** sound-absorbing boards and their environmental friendliness allow them to be used for any premises, including childcare institutions.

85% sound absorption

50 mm board thickness

1200 x 600 mm panel working dimensions

4,5 kg package weight

3 m² quantity per package

FEATURES

- High sound absorption characteristics due to the optimal density of the material
- Non-combustible material (combustibility category – NG)
- Convenient packaging for transportation
- The high quality of the material is due to the manual control of each board in production before its packaging
- The material has successfully passed the procedure of expert assessment of building materials according to the EcoMaterial environmental standard. The product is safe for humans

COMPOSITION

The staple fiberglass used as the main component of the board is treated with a water-repellent compound. The binder is made of acrylic, which is an absolutely safe and non-toxic substance.

INSTALLATION

SHUMANET-ECOboards are laid into the cells of the backing of the structure of soundproofing and sound-absorbing lining of walls and ceiling slabs, multilayer framed partitions in a stud or timber.

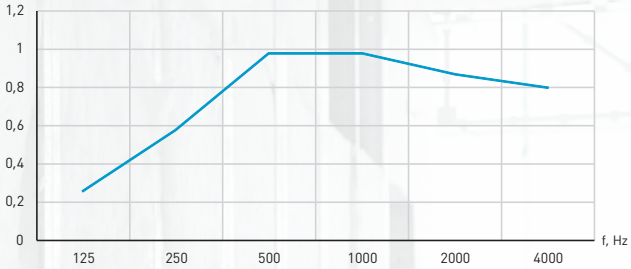
When used in non-tight structures, to prevent the emission of material particles into the environment, it is recommended to first wrap the **SHUMANET-ECO** boards with a sound-permeable non-woven fabric such as spunbond.

To protect your hands when working with **SHUMANET-ECO** boards, it is recommended to use cotton gloves.

Product details

REVERBERATION FACTOR OF SOUND ABSORPTION

Acoustic tests were carried out by the acoustic measurement laboratory of the Scientific-Research Institute of Building Physics of the Russian Academy of Architecture and Construction Sciences, Moscow.
Test Report No. 524-002-14 dated 11.02.2014



SPECIFICATIONS

Sound absorption class	V
Sound absorption index (at 50 mm thickness), α_w	0,85
Bulk density	30 ± 5 kg/m^3
Heat conductivity factor, max.	0,034 W (m* °K)

CERTIFICATES

Combustibility group NG

Environmental standard Ecomaterial 2.0

SHUMANET®-BM

Basalt-based sound-absorbing boards

SHUMANET-BM basalt-base mineral boards are among the most effective in the class of sound-absorbing materials. Mandatory quality control of each board ensures consistently high acoustic and consumer properties of the product.

APPLICATION

SHUMANET-BM boards are used as a sound-absorbing layer for framed partitions, wall linings, suspended ceilings and floor over joists.

95% sound absorption

50/70 mm panel thickness

2,8 m² / 2,1 m² quantity per package

1200 × 600 mm panel working dimensions

6,8 kg package weight

FEATURES

- High sound absorption characteristics due to the optimal density of the material
- Combustibility group – NG
- Water repellency
- Convenient packaging for transportation

COMPOSITION

Basalt-based water-repellent mineral board.

INSTALLATION

SHUMANET-BM boards are laid into the cells of the backing of the structure of soundproofing and sound-absorbing lining of walls and ceiling slabs, multilayer framed partitions in a stud or timber.

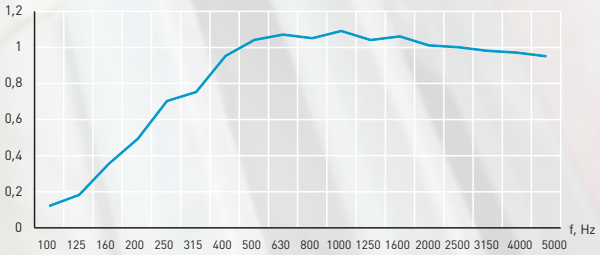
When used in non-tight structures, to prevent the emission of material particles into the environment, it is recommended to first wrap the **SHUMANET-BM** boards with a sound-permeable non-woven fabric such as spunbond.

To protect your hands when working with **SHUMANET-BM** boards, it is recommended to use cotton gloves.

Product details

REVERBERATION FACTOR OF SOUND ABSORPTION

Acoustic tests were carried out by the testing center "Technical Institute for Certification and Testing", Republic of Belarus, Minsk. Test report No. H-4/17 dated 05.04.2017



SPECIFICATIONS

Sound absorption class	A
Sound absorption index (at 50 mm thickness), αw	0,95
Bulk density	47 kg/m^3
Heat conductivity factor, max.	0,034 W (m* °K)

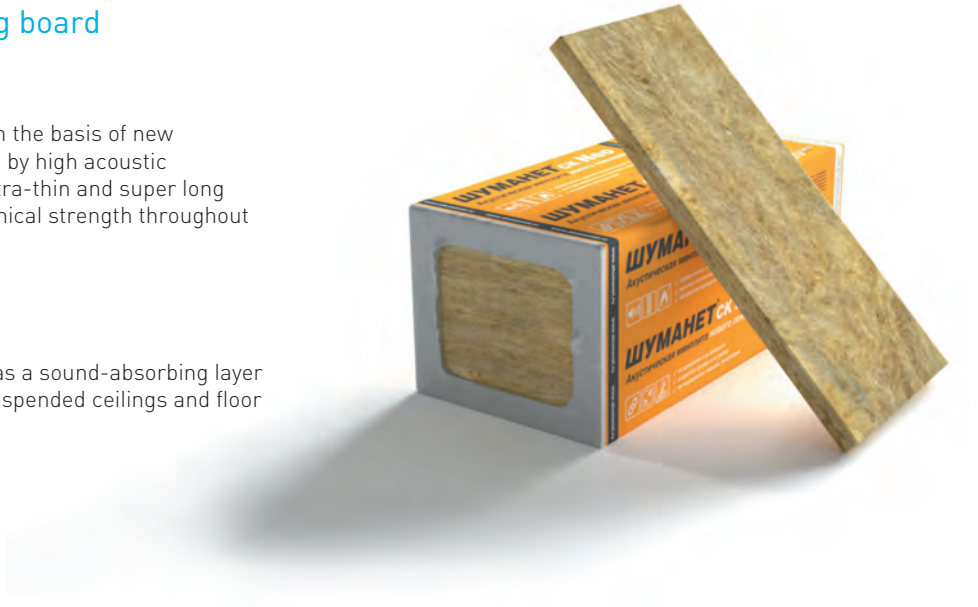
CERTIFICATES

Combustibility group NG

SHUMANET®-CK NEO

Fiberglass sound-absorbing board

SHUMANET-CK NEO mineral boards on the basis of new generation fiberglass are distinguished by high acoustic and operational characteristics. The ultra-thin and super long fibres of the material have high mechanical strength throughout the entire service life.



APPLICATION

SHUMANET-CK NEO boards are used as a sound-absorbing layer for framed partitions, lining of walls, suspended ceilings and floor over joists.

90% sound absorption

50 mm board thickness

7,2 m² quantity per package

1200 x 600 mm panel working dimensions

11 kg package weight

FEATURES

- High mechanical strength of the fiber
- Non-combustible material (combustibility category – NG)
- Does not crumble or break
- Keeps its shape and will not tear
- Not subject to decay, bio-resistant

COMPOSITION

SCHUMANET-CK NEO mineral boards are made on the basis of new generation fiberglass.

INSTALLATION

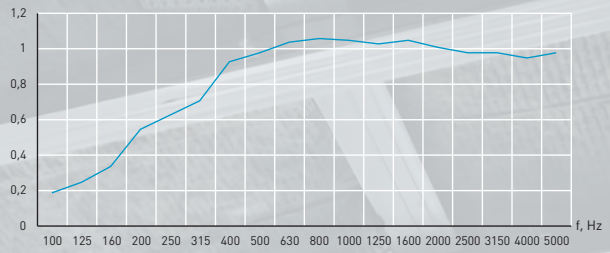
SHUMANET-CK NEO boards are laid into the cells of the backing of the structure of soundproofing and sound-absorbing lining of walls and ceilings, multilayer framed partitions in a stud or timber.

When used in non-tight structures, to prevent the emission of material particles into the environment, it is recommended to first wrap the **SHUMANET-CK NEO** boards with a sound-permeable non-woven fabric such as spunbond. To protect your hands when working with **SHUMANET-CK NEO** boards, it is recommended to use cotton gloves.

Product details

REVERBERATION FACTOR OF SOUND ABSORPTION

Acoustic tests were carried out by the testing center "Technical Institute for Certification and Testing". Test report No. H-5/17



SPECIFICATIONS

Sound absorption class	A
Sound absorption index (at 50 mm thickness), α_w	0,9
Bulk density	30 kg/m^3
Heat conductivity factor, max.	0,033 W/(m*°K)

CERTIFICATES

Combustibility group NG

SHUMANET®-THERMO ECO

Heat insulating and soundproofing mat

SHUMANET-THERMO ECO – is a heat insulating and soundproofing mat with improved environmental properties. The material

has improved environmental safety characteristics due to the use of safe filler made of Shumanet-ECO material, as well as an additional protective shell made of non-woven fabric.

APPLICATION

It is used as a sound-absorbing layer inside soundproofing structures of ceiling slabs, walls and partitions, as well as floors over joists.

Can be used in the interior space of a stretch ceiling to protect against resonance phenomena that contribute to deterioration of soundproofing.

60%* sound absorption

25 mm fabric thickness

1,2 x 7,5 m fabric dimensions

9 m² quantity per package

10,3 kg package weight

FEATURES

- Easy installation - the filler does not wind up when drilling
- Super eco-friendly: filler made of **SHUMANET-ECO** in a protective membrane
- The shell guarantees the absence of emission of filler particles
- Ideal for use with stretch ceilings

COMPOSITION

The **SHUMANET-THERMO ECO** material consists of an elastic fibrous sound-absorbing layer of staple fiberglass on an acrylic binder, enclosed in a shell of specialized non-woven fabric, which allows for the complete elimination of the emission of filler particles.

Product details

INSTALLATION

The **SHUMANET-THERMO ECO** material is fixed to the finished ceiling or wall before the frame is installed using polypropylene dowels for heat insulation, as well as ULTRAKUSTIK glue (when installing on the ceiling).

When installing a soundproof ceiling, it is possible to lay the material on an already finished frame without fixing the sheet to the ceiling.

SPECIFICATIONS

Heat conductivity factor	0,034 Вт/(м.К)
*sound absorption index αw without space between insulation and insulated surface	0,6

CERTIFICATES

Combustibility group KM5

AKULITE® SE

Acoustic mineral board

AKULITE SE quartz-based mineral boards are one of the most effective sound-absorbing materials used in the construction of premises with high requirements for acoustic parameters. When used as a soundproofing system component, the **AKULITE SE** quartz board provides high acoustic and soundproofing performance.

APPLICATION

AKULITE SE quartz-based acoustic mineral boards are used as a sound-absorbing layer in the structures of lightweight multilayer partitions, lining, suspended ceilings and floors to increase their soundproofing capacity.

85%* sound absorption

50/75 mm board thickness

1170 x 610 mm panel working dimensions

8,5 m² quantity per package

12,8 kg package weight

FEATURES

- High sound absorption properties
- Reduction in volume by 2 times in packaged form
- Low fiber emission and form stability
- Non-combustible material
- Two thickness options

COMPOSITION

Quartz-based water-repellent mineral board.

INSTALLATION

AKULITE SE boards are laid into the cells of the backing of the structure of soundproofing and sound-absorbing lining of walls and ceiling slabs, multilayer framed partitions in a stud or timber.

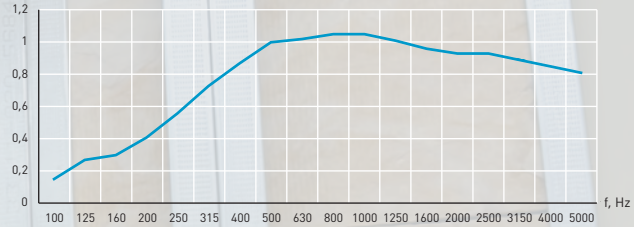
When used in non-tight structures, to prevent the emission of material particles into the environment, it is recommended to first wrap the **AKULITE SE** boards with a sound-permeable non-woven fabric such as spunbond.

To protect your hands when working with **AKULITE SE** boards, it is recommended to use cotton gloves.

Product details

REVERBERATION FACTOR OF SOUND ABSORPTION

Acoustic tests were carried out by the testing center "Technical Institute for Certification and Testing". Test report No. H-34/19.



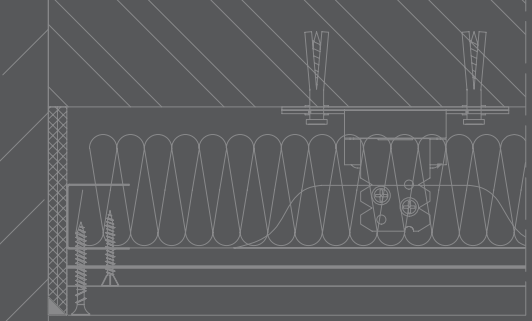
*Sound absorption index (at 50 mm thickness), αw	0,85

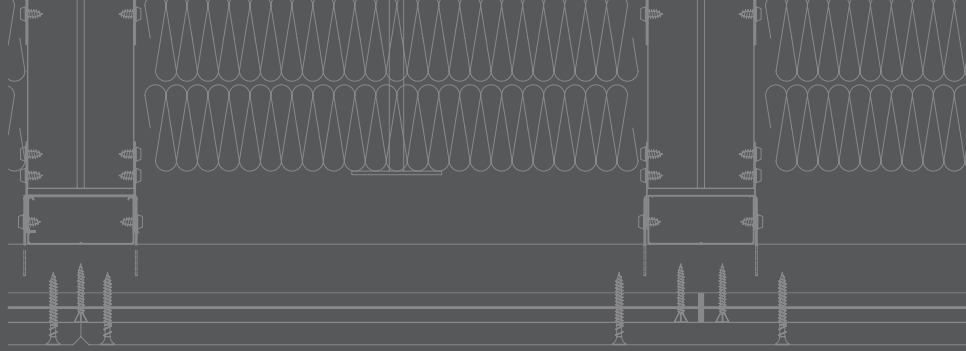
SPECIFICATIONS

Bulk density	30 kg/m^3
Heat conductivity factor, max.	0,032 W/(m*°K)

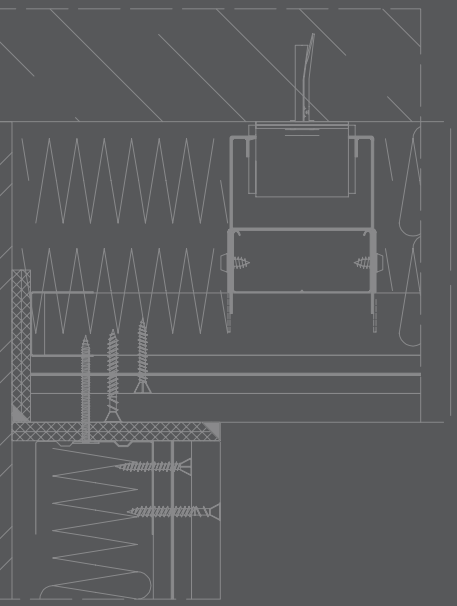
CERTIFICATES

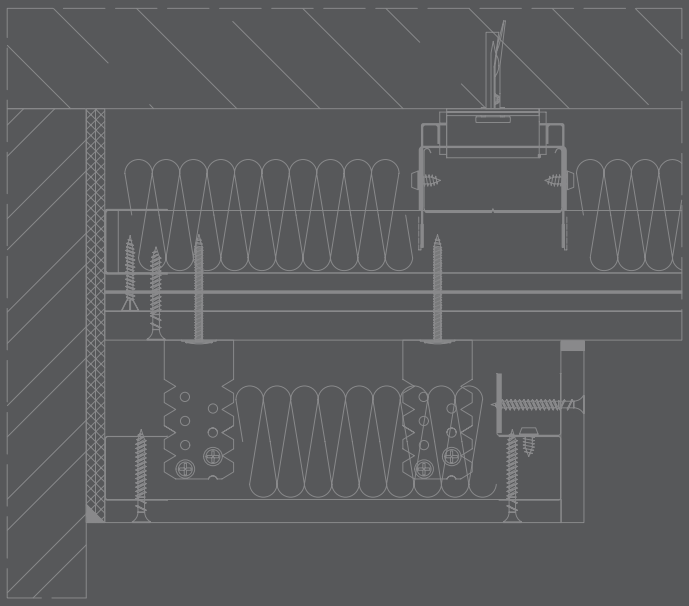
Combustibility group NG

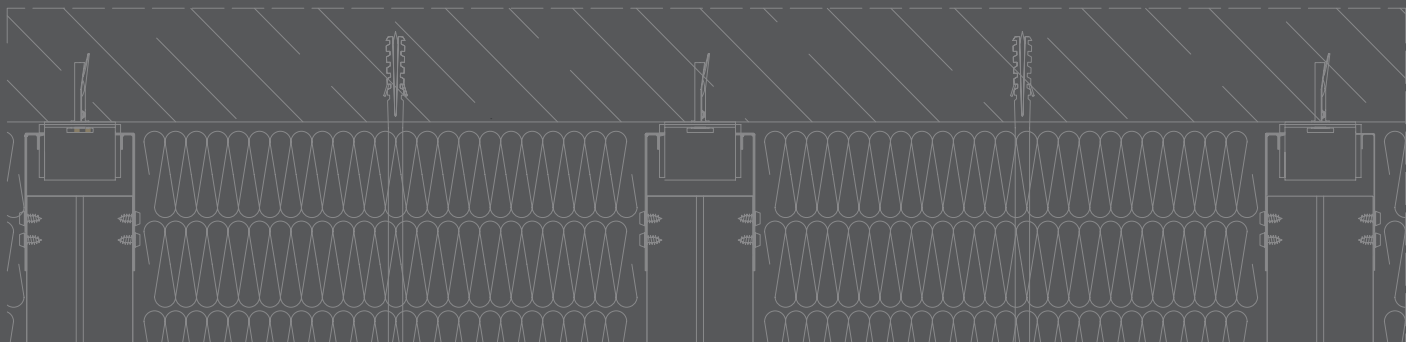




VIBROFLEX







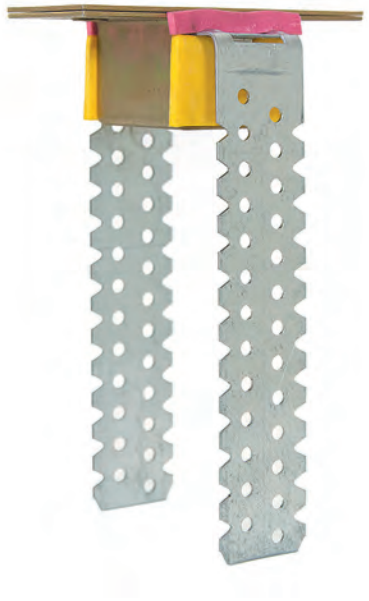
VIBRATION INSULATING MOUNTS FOR WALLS AND CEILINGS

Vibration insulating hangers and mounts are used in framed soundproofing structures to protect against vibrations transmitted from the load-bearing structure through the fastening joints.

Due to the use of specialized Sylomer/Sylodyn materials produced by Getzner Werkstoffe GmbH in vibration insulating mounts, an effective increase in the index of additional soundproofing of structures is achieved.

VIBROFLEX®-K15

Vibration insulating ceiling hanger



The use of Sylodyn material as an elastic element in the **VIBROFLEX-K15** vibration insulating ceiling hangers allows for a significant reduction in the passage of sound vibrations through the hanger, thereby significantly increasing the additional soundproofing of the structure as a whole.

APPLICATION

VIBROFLEX-K15 vibration insulating ceiling hangers are designed specifically for use in the structures of soundproofing suspended ceilings made of gypsum boards/moisture-resistant gypsum plasterboards on a metal frame.

ΔR_w 19* dB additional soundproofing

15 kg hanger load capacity

"Grower effect"

FEATURES

- Anodized coating of load-bearing members
- Soundproofing performance up to 20 dB
- Service life over 30 years
- Each of the two direct hanger rods has an arc shape in cross-section, which, when a section is attached to it, provides a double "Grower effect", preventing loose fastening of the self-tapping screw to the metal section and preventing frame rattling when high sound levels affect the structure

COMPOSITION

The hanger is a bracket with perforated shelves, connected to the base through vibration insulating inserts made of Sylodyn material.

Product details

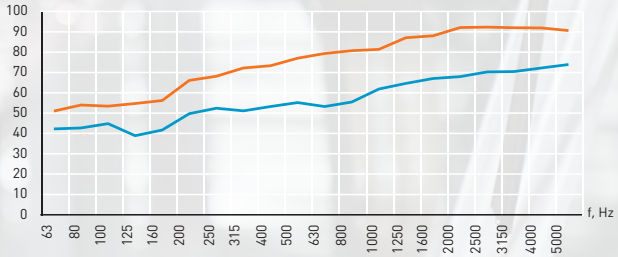
INSTALLATION

VIBROFLEX-K15 hangers are mounted with a cell pitch of 600x800 mm, using anchor wedges to a reinforced concrete floor or using universal self-tapping screws to wooden floors. The maximum distance from the edge of the section to the first hanger should not exceed 150-200 mm.

More details about the design and installation:
Process flow chart for installation of soundproofing framed ceiling structure using Vibroflex hangers/TK-007-2022; Engineering Solutions Album/ASP-601-0921.

VIBROACOUSTIC CHARACTERISTICS

Acoustic tests were carried out by the LAISF Acoustics and Building Physics Laboratory, Ufa. Test report No. 10163-012-0418 dated 17.04.2018



— Soundproofing of floor slab with suspended ceiling, 130 mm thick, using VIBROFLEX-K15 hangers, , dB R_w=77 , dB

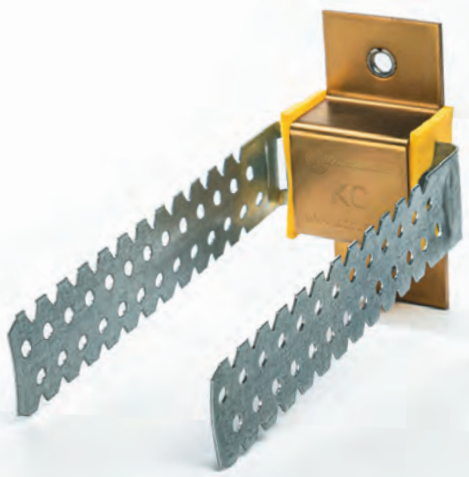
— Soundproofing of reinforced concrete floor slab with leveling screed, 220 mm thick, dB R_w=58 , dB

*Index of additional air-borne sound insulation, ΔR_w	19 dB

VIBROFLEX®-KS

Vibration insulating wall mount

The **VIBROFLEX-KS** vibration insulating mount, due to the vibration insulating element made of Sylodyn material, significantly reduces the passage of sound vibrations, thereby significantly increasing the additional soundproofing of the structure as a whole.



APPLICATION

VIBROFLEX-KS vibration insulating wall mounts are designed specifically for use in the structure of lightweight framed linings made of gypsum boards/moisture-resistant gypsum plasterboards on a metal frame.

ΔR_w 25* dB — additional soundproofing

25 kg — hanger load capacity

"Grower effect"

FEATURES

- Anodized coating of load-bearing members
- Soundproofing performance up to 25 dB
- Service life over 30 years
- Each of the two direct hanger rods has an arc shape in cross-section, which, when a section is attached to it, provides a double "Grower effect", preventing loose fastening of the self-tapping screw to the metal section and preventing frame rattling when high sound levels affect the structure

COMPOSITION

The mount is a perforated bracket connected to the base through a layer of Sylodyn material with unique vibration damping characteristics.

Product details

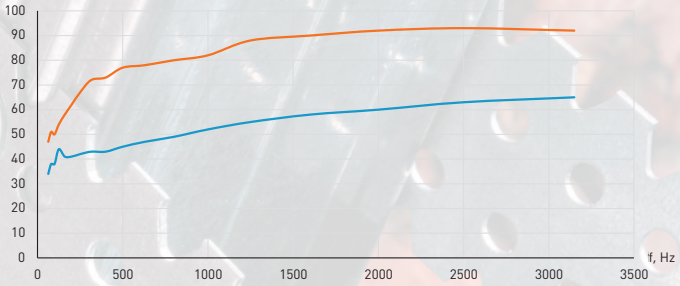
INSTALLATION

The **VIBROFLEX-KS** hangers are attached to the base wall using dowels with a pitch of max. 1500 mm, but no less than 3 hangers per wall up to 3 meters high. The distance from adjacent walls to the nearest hangers must be max. 150 mm. The distance from the floor/ceiling to the nearest hanger must be min. 150 mm.

More details about the design and installation:
Process flow chart for installation of soundproofing framed lining structure using hangers/TK-006-2022; Engineering Solutions Album/ASP-601-0921.

AIR-BORNE SOUND INSULATION

Acoustic tests were carried out by the acoustics laboratory of Nizhny Novgorod State University of Architecture and Civil Engineering, Nizhny Novgorod. Test reports No. 2017 01/13 – 01; No. 2027 01/13 – 06



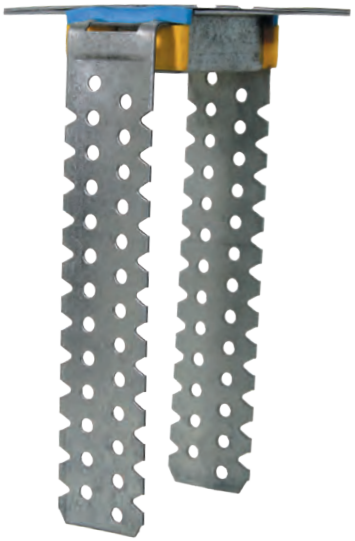
— Soundproofing of 120 mm brick wall with lining made on the basis of VIBROFLEX-KS mounts, R_w=76 dB

— Soundproofing of 120 mm brick wall, R_w= 51 dB

*Index of additional air-borne sound insulation, ΔR_w	25 dB

VIBROFLEX®-CONNECT PP

Vibration insulating ceiling hanger



VIBROFLEX-CONNECT PP are specialized vibration insulating hangers for suspended ceilings. They are designed for use in lightweight suspended framed ceiling systems made of moisture-resistant gypsum plasterboards/gypsum boards.

They successfully reduce the transmission of vibrations to the front surface, increasing the level of soundproofing of the entire structure.

APPLICATION

The hanger is designed for fastening metal sections in framed ceiling soundproofing structures in premises to protect against medium-intensity noise.

ΔR_w 17* dB — additional soundproofing

15 kg — hanger load capacity

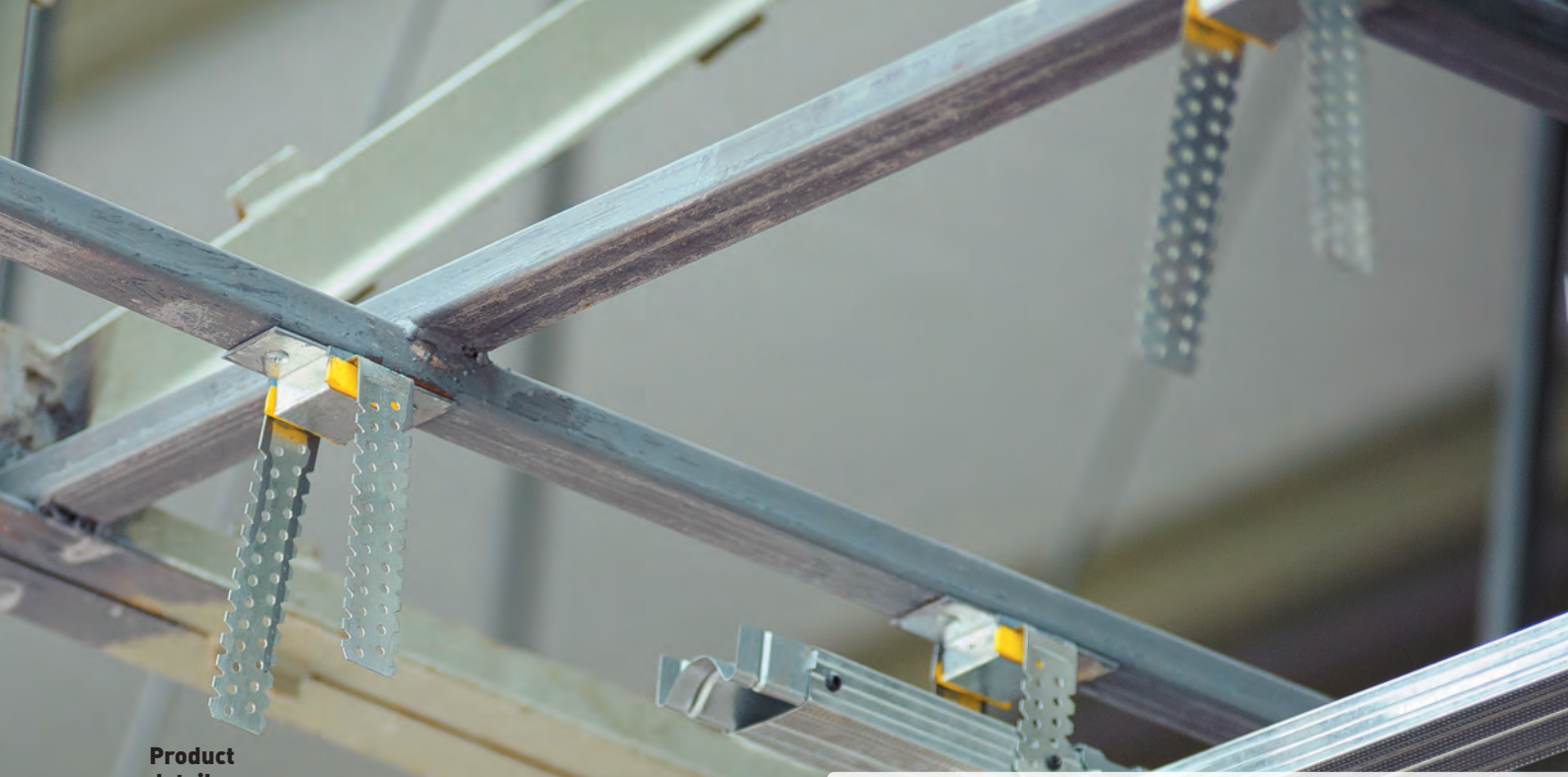
"Grower effect"

FEATURES

- Anodized coating of load-bearing members
- Soundproofing performance up to 17 dB
- Service life over 30 years
- Each of the two direct hanger rods has an arc shape in cross-section, which, when a section is attached to it, provides a double "Grower effect", preventing loose fastening of the self-tapping screw to the metal section and preventing frame rattling when high sound levels affect the structure

COMPOSITION

The hanger is a bracket with perforated shelves, connected to the base through vibration insulating inserts made of Sylodyn material.



Product details

INSTALLATION

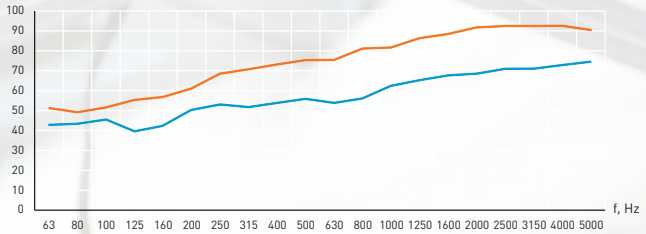
VIBROFLEX-CONNECT PP hangers are mounted

with a cell pitch of 600x800 mm, using anchor wedges to a reinforced concrete floor or using universal self-tapping screws to wooden floors. The maximum distance from the edge of the section to the first hanger should not exceed 150-200 mm.

More details about the design and installation:
Process flow chart for installation of soundproofing framed ceiling structure using Vibroflex hangers/TK-007-2022; Engineering Solutions Album/ASP-601-0921.

AIR-BORNE SOUND INSULATION

Acoustic tests were carried out by the LAISF Acoustics and Building Physics Laboratory, Ufa. Test report No. 0164-012-0418 dated 17.04.2018



— Soundproofing of floor slab with suspended ceiling, 130 mm thick, using VIBROFLEX-CONNECT PP hangers, R_w=75 dB

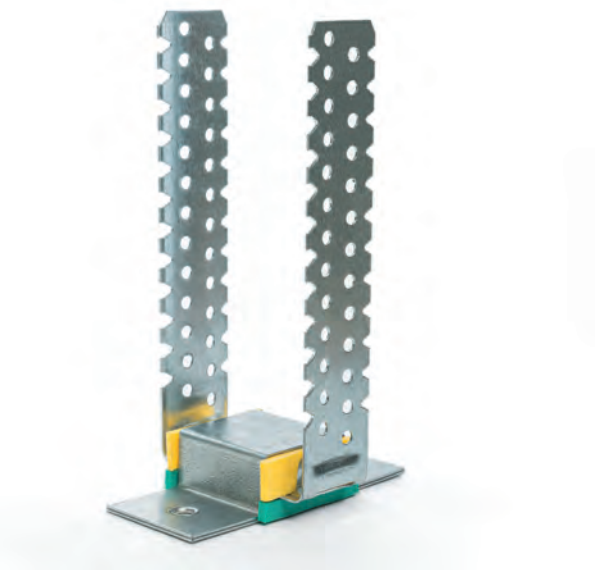
— Soundproofing of reinforced concrete floor slab with leveling screed, 220 mm thick, R_w= 58 dB

*Index of additional air-borne sound insulation, ΔR_w	17 dB

VIBROFLEX®-CONNECT PS

Vibration insulating wall mount

VIBROFLEX-CONNECT PS are specialized vibration insulating mounts for reducing vibrations and, accordingly, increasing the overall sound insulation of the structure. The mounts use a vibration insulating element made from specialized Sylodyn material.



APPLICATION

The **VIBROFLEX-CONNECT PS** vibration insulating mount is designed for use in lightweight lining framed structures made of moisture-resistant gypsum plasterboards and gypsum boards.

ΔR_w 24* dB — additional soundproofing

25 kg — hanger load capacity

"Grower effect"

FEATURES

- Anti-corrosion coating of load-bearing members
- Reliability and ease of fastening due to perforation of the bracket shelves
- Each of the two direct hanger rods has an arc shape in cross-section, which, when a section is attached to it, provides a double "Grower effect", preventing loose fastening of the self-tapping screw to the metal section and preventing frame rattling when high sound levels affect the structure
- Service life over 30 years

COMPOSITION

VIBROFLEX-CONNECT PS is a direct hanger connected to the base through a damping layer made of Sylodyn polyurethane material.

Product details

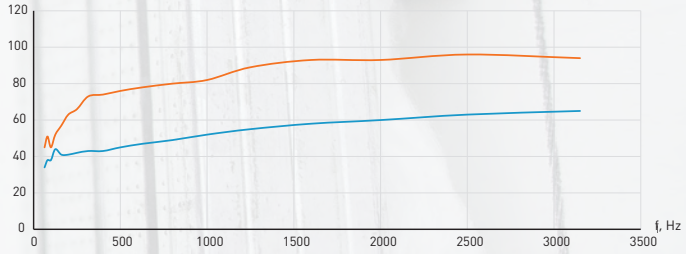
INSTALLATION

VIBROFLEX-CONNECT PS hangers are attached to the base wall using dowels with a pitch of max. 1500 mm, but no less than 3 hangers per wall up to 3 meters high. The distance from adjacent walls to the nearest hangers must be max. 150 mm. The distance from the floor/ceiling to the nearest hanger must be min. 150 mm.

More details about the design and installation:
Process flow chart for installation of soundproofing framed lining structure using hangers/TK-006-2022; Engineering Solutions Album/ASP-601-0921.

AIR-BORNE SOUND INSULATION

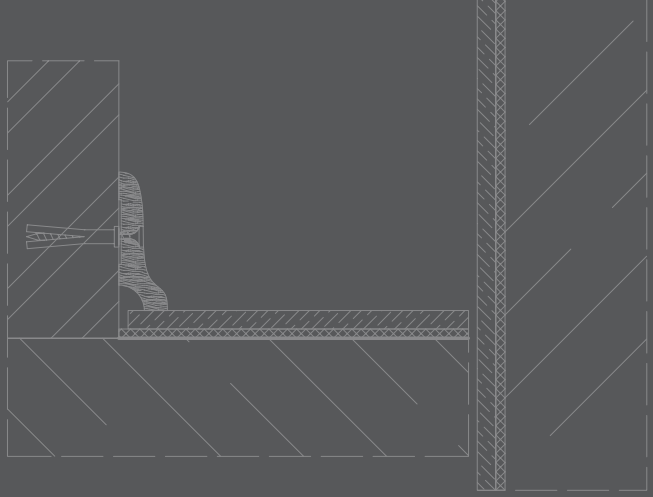
Acoustic tests were carried out by the acoustics laboratory of Nizhny Novgorod State University of Architecture and Civil Engineering, Nizhny Novgorod. Test reports No. 2017 01/13 – 01; No. 2027 01/13 – 05

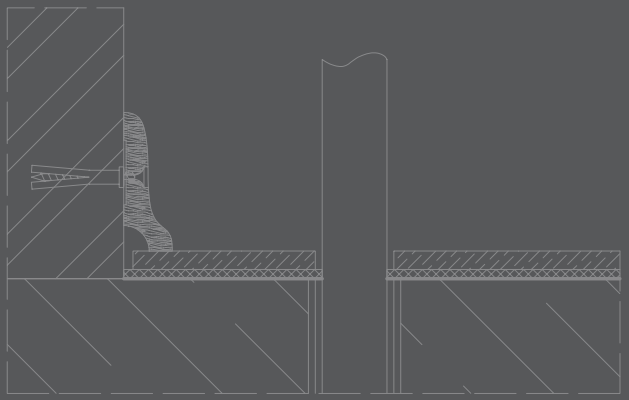


— Soundproofing of 120 mm brick wall with lining made on VIBROFLEX-CONNECT PS mounts, R_w=75 dB

— Soundproofing of 120 mm brick wall, R_w= 51 dB

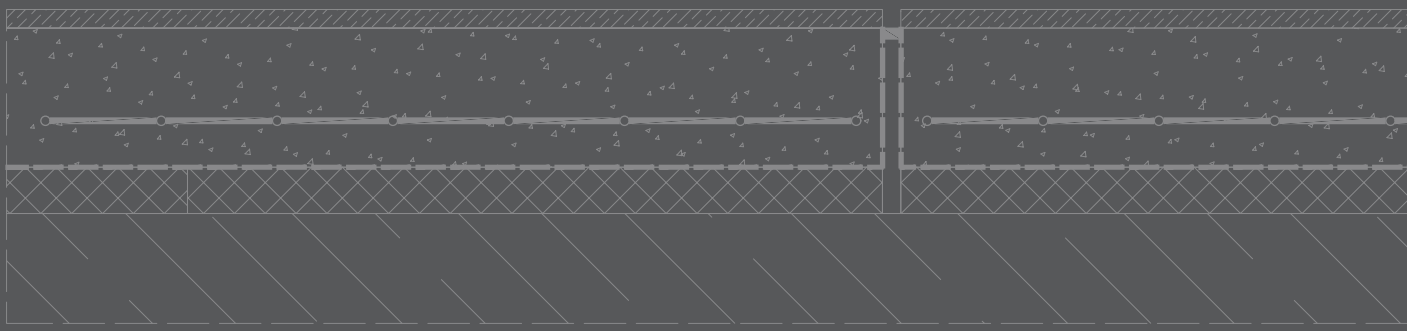
*Index of additional air-borne sound insulation, ΔR_w	24 dB

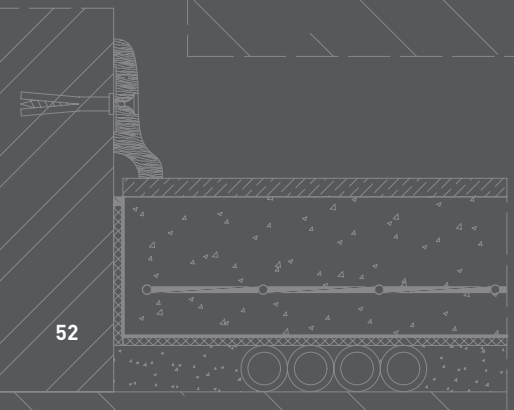


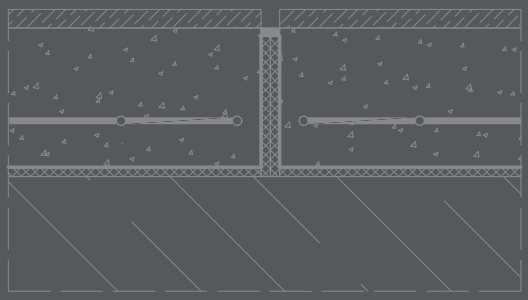


SHUMOSTOP

SHUMANET AKUFLEX AKUFLOOR ZIPS SHUMOPLAST VIBROFLEX







FLOOR SOUNDPROOFING

Soundproofing floor can solve two problems: protection from shock noise and air-borne sound. Depending on the problem to solve, one or another solution will suit you.

For each solution, this section provides parameters to help you make your choice: thickness, $\Delta L'_{nw}$ (ADDITIONAL shock noise insulation), $\Delta R'_{w}$ (ADDITIONAL air-borne sound insulation), composition and application method.

AKUFLEX®

Soundproofing underlay for flooring

AKUFLEX is a soundproofing roll material made of polyester fiber, developed specifically for floor soundproofing.

APPLICATION

The **AKUFLEX** nmaterial is used as an elastic liner under finished floorings: laminate, parquet board, and also under a leveling screed in order to reduce the level of shock noise under the floor slab in the room below.

ΔL_{nw} 28* dB — shock noise reduction index

4 mm — material thickness

1 m — material width

15 m — roll length

5 kg — package weight

FEATURES

- Universal application: for finishing coatings and leveling screeds
- Increases the service life of the flooring due to air and moisture circulation
- The fibrous structure guarantees stable acoustic performance throughout the entire service life
- Allows for the implementation of a thin and effective design of additional shock noise insulation (ΔL_{nw} = 21 dB) without the use of a sand cement screed

COMPOSITION

Polyester fiber treated using a special technology to obtain stable and durable elastic properties.

INSTALLATION

When installing **AKUFLEX** under the screed, the surface must be prepared in accordance with technical requirements. The roll is rolled out over the entire floor area of the protected room and is placed vertically on the walls and columns in order to avoid hard contact between the screed and other building structures.

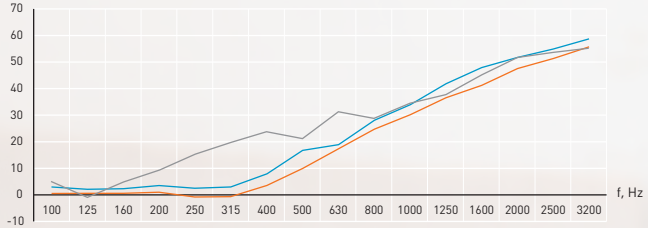
When installing **AKUFLEX** material under the flooring, the surface must be prepared in accordance with technical requirements. The roll is rolled out over the entire floor area of the protected room without placing the material on the walls and columns.

More details about the design and installation:
Process flow chart for installation of soundproofing floor structure using Akuflex-Super/ TK-008-2022; Engineering Solutions Album/ASP-601-0921.

Product details

IMPACT NOISE INSULATION

Acoustic tests were carried out by the acoustic measurement laboratory of the Scientific-Research Institute of Building Physics of the Russian Academy of Architecture and Construction Sciences, Moscow
Test report No. 454-002-13 dated 25.02.2013
Acoustic test report dated 16.02.2016



— Impact noise insulation with Akuflex underlay under 15 mm thick parquet
— Impact noise insulation with Akuflex underlay under 8 mm thick laminate
— Impact noise insulation with Akuflex underlay under sand cement screed with surface density of 100-120 kg/m^2

IMPACT NOISE REDUCTION INDEX

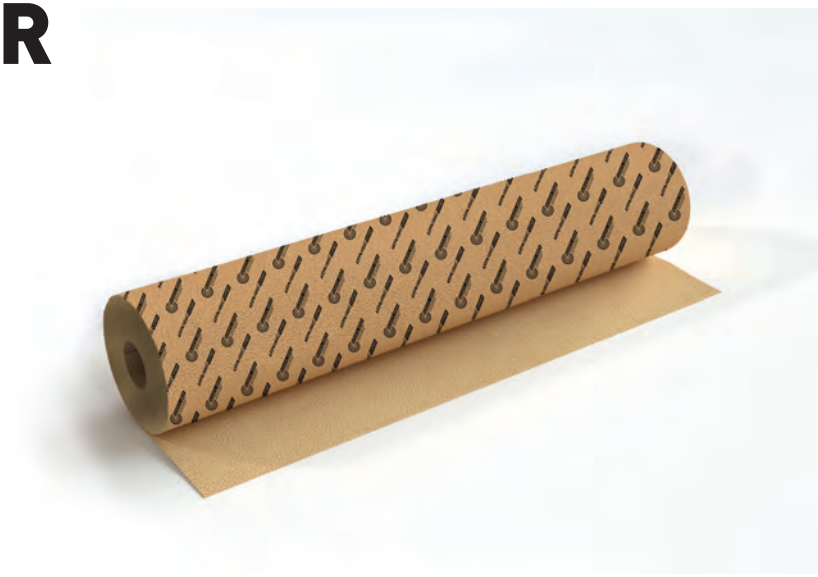
Under 8 mm thick laminate, ΔL_{nw}	20 dB
Under 15 mm parquet board, ΔL_{nw}	17 dB
*under sand cement screed with surface density of 100-120 kg/m^2 , ΔL_{nw}	28 dB

SPECIFICATIONS

Relative compression ratio under 2 kPa load, max.	0,12
Dynamic modulus of elasticity under 2 kPa load, max.	0,27 MPa
Tensile strength, min.	200 N
Surface density	300 g/m^2

AKUFLEX®-SUPER

Soundproofing underlay for flooring



AKUFLEX-SUPER is a universal soundproofing roll material made of 100% polyester fiber with a polypropylene film coating. Made specifically for floor soundproofing.

APPLICATION

The **AKUFLEX-SUPER** material is used as an elastic lining layer under the leveling screed in soundproofing floor structures, and also as a compensating soundproofing underlay under the finish flooring.

ΔL_{nw} 27* dB — shock noise reduction index

4 mm — material thickness

1,5 m — material width

10 m — roll length

7 kg — package weight

FEATURES

- Universal application: under leveling screed and/or finish flooring
- The polypropylene film coating acts as a separating layer and allows the screed and finish flooring to be laid directly on the material
- The fibrous structure of the material guarantees stable high acoustic performance throughout the entire service life
- Increases the service life of the finish flooring due to microcirculation of air and moisture, protects against the effects of residual moisture of the leveling screed

COMPOSITION

100% polyester fiber with polypropylene film coating

INSTALLATION

When installing **AKUFLEX-SUPER** under the screed, the surface must be prepared in accordance with technical requirements. The roll is rolled out over the entire floor area of the protected room and is placed vertically on the walls and columns in order to avoid hard contact between the screed and other building structures.

When installing **AKUFLEX-SUPER** material under the flooring, the surface must be prepared in accordance with technical requirements. The roll is rolled out over the entire floor area of the protected room without placing the material on the walls and columns.

More details about the design and installation:
Process flow chart for installation of soundproofing floor structure using Akuflex-Super/TK-008-2022, Engineering Solutions Album/ASP-601-0921.

Product details

IMPACT NOISE REDUCTION

IMPACT NOISE REDUCTION INDEX

Under 8 mm thick laminate 8 мм, ΔL_{nw}	20 dB
*under sand cement screed with surface density of 100-120 kg/m^2 , ΔL_{nw}	27 dB

SPECIFICATIONS

Relative compression ratio under 2 kPa load, max.	0,14
Dynamic modulus of elasticity under 2 kPa load, max.	0.18 MPa
Surface density	450+20/-10 g/m^2

SHUMANET®-100 HYDRO

Waterproofing and soundproofing roll material

SHUMANET-100HYDRO is a material that is a soundproofing fabric with a synthetic fibrous base covered with a reinforced bitumen-polymer binder layer.

APPLICATION

SHUMANET-100HYDRO is used as a soundproofing and waterproofing elastic liner under a sand cement screed in the structures of "floating" soundproofing floors in order to reduce the level of shock noise and provide waterproofing. It is used in the construction, reconstruction and restoration of buildings and structures of all types and purposes.

- ΔL_{nw} 24* dB — shock noise reduction index
- 5 mm — material thickness
- 1 m — material width
- 10 m — roll length
- 34 kg — roll weight

FEATURES

- Increased waterproofing due to reinforced polymer-bitumen membrane
- Dual-purpose material - waterproofing and soundproofing

COMPOSITION

Polyester fiber with a modified polymer-bitumen base.

INSTALLATION

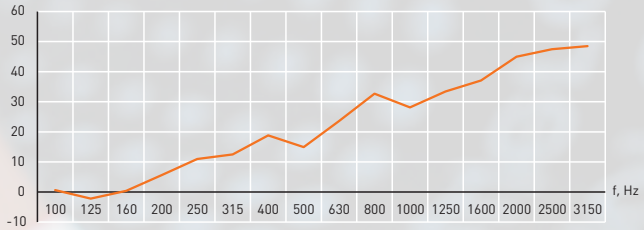
The **SHUMANET-100HYDRO** ymaterial is laid on a pre-prepared surface, without protrusions and irregularities, in such a way as to completely cover the floor area and at the same time ensure that the material is brought onto the walls and columns.

The joints between the sheets of material are glued by softening the bitumen using a heat gun or gas burner.

More details about the design and installation:
Process flow chart for installation of soundproofing floor structure using Shumanet-100/TK-009-2022, Engineering Solutions Album/ASP-601-0921.

IMPACT NOISE INSULATION

Acoustic tests were carried out by the acoustic measurement laboratory of the Scientific-Research Institute of Building Physics of the Russian Academy of Architecture and Construction Sciences, Moscow
Test report dated 16.02.2016



IMPACT NOISE REDUCTION INDEX

*ΔL_{nw} under screed with surface density of 100-120 kg/m^2	24 dB

SPECIFICATIONS

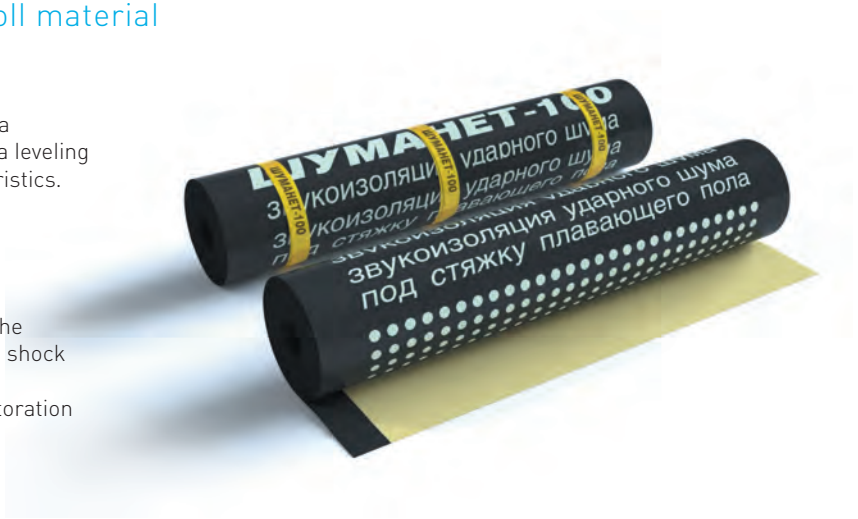
Modulus of impedance under 2 kPa load, max.	80 MN/m^3
Breaking load, min.	270 N
Water resistance at pressure of max. 0.2 MPa, for 2 hours	absolute
Water absorption in 24 hours, max.	2%

Product details

SHUMANET®-100 COMBI

Soundproofing and waterproofing roll material

SHUMANET-100 COMBI is a material that is used as a soundproofing and waterproofing elastic liner under a leveling screed and has high shock noise insulation characteristics.



APPLICATION

SHUMANET-100 COMBI is used in the structures of the "floating" soundproofing floors in order to reduce the shock noise level and to provide waterproofing.
It is used in the construction, reconstruction and restoration of buildings and structures of all types and purposes.

ΔL_{nw} 26* dB	shock noise reduction index
5 mm	material thickness
1 m	material width
10 m	roll length
25 kg	roll weight

FEATURES

- Dual-purpose material: soundproofing and waterproofing
- Effective soundproofing layer made of heat-bonded synthetic felt
- Easy to install

COMPOSITION

Polyester fiber with a one-sided modified polymer-bitumen base.

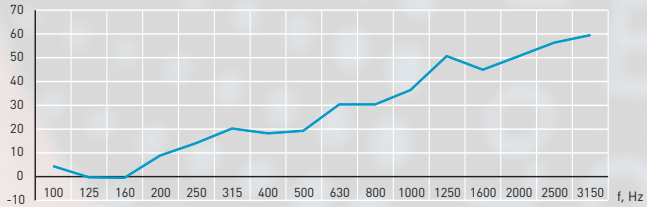
INSTALLATION

The **SHUMANET-100 COMBI** material is laid on a pre-prepared surface, without protrusions and irregularities, in such a way as to completely cover the floor area and at the same time ensure that the material is brought onto the walls and columns. The joints between the sheets of material are glued by softening the bitumen using a heat gun or gas burner..

More details about the design and installation:
Process flow chart for installation of soundproofing floor structure using Shumanet-100/TK-009-2022, Engineering Solutions Album/ASP-601-0921.

IMPACT NOISE INSULATION

Acoustic tests were carried out by the acoustic measurement laboratory of the Scientific-Research Institute of Building Physics of the Russian Academy of Architecture and Construction Sciences, Moscow
Test report dated 16.02.2016



IMPACT NOISE REDUCTION INDEX

*ΔL_{nw} nunder screed with surface density of 100-120 kg/m^2	26 dB

SPECIFICATIONS

Modulus of impedance under 2 kPa load, max.	65 MN/m^3
Breaking load, min.	270 N
Water absorption in 24 hours, max.	2%

Product details

SHUMOSTOP®-S2

Soundproofing boards made of glass staple fiber

SHUMOSTOP-S2 soundproofing fiberglass boards are a specialized high-quality product for use in the structures of floating soundproofing floors as a working elastic layer.

APPLICATION

They are used as an effective soundproofing layer in building structures when installing floating floors with increased requirements for shock noise insulation. **SHUMOSTOP-S2** boards are used together with **SHUMOSTOP-K2** boards in the SHUMOSTOP soundproofing system, which is presented in the "Acoustic Group Engineering Solutions Album".

13,5 kg — package weight

ΔL_{nw} 40* dB — shock noise reduction index

ΔR_w 10** dB — additional air-borne sound insulation

20 mm — board thickness

1200 x 600 mm — panel working dimensions

7,2 m² — quantity per package

FEATURES

- High values of additional soundproofing
- Fire hazard class – NG
- Water repellency
- Convenient packaging for transportation

COMPOSITION

Water-repellent staple fiberglass.

CERTIFICATES

Combustibility group	NG

INSTALLATION

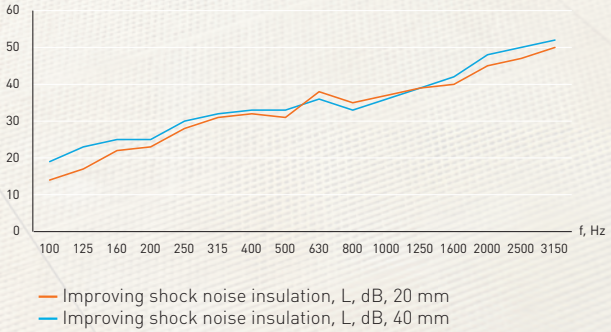
The **SHUMOSTOP-S2** boards are laid on the floor slab inside the contour of Shumostop-K2 boards. A separating layer of polyethylene film is laid on top of the boards. On top of the PE film layer, a leveling reinforced sand cement screed of grade no lower than M300 is installed, with a thickness of no less than 60 mm for one layer and no less than 80 mm for two layers of Shumostop material.
The leveling screed installed along the room perimeter must be separated from the walls, columns and utility systems by Shumostop-K2 edge boards or a Vibrostack-M/ Vibrostack-White elastic liner in 2 layers. It is recommended to install the boards using cotton gloves.

More details about the design and installation:
Process flow chart for installation of soundproofing floor structure using Shumostop/TK-011-2022, Engineering Solutions Album/ASP-601-0921

Product details

IMPACT NOISE INSULATION

Acoustic tests were carried out by the acoustic measurement laboratory of the Scientific-Research Institute of Building Physics of the Russian Academy of Architecture and Construction Sciences, Moscow.
Test report No. 021/77-21/ No. 022/77-21 dated 19.07.21



ACOUSTIC CHARACTERISTICS

**index of additional air-borne sound insulation by floor structure with thickness of 20 mm – ΔR_w	10 dB
Index of shock noise reduction by floor structure with thickness of 20 mm – ΔL_{nw}	38 dB
*index of shock noise reduction by floor structure with thickness of 40 mm – ΔL_{nw}	40 dB

SPECIFICATIONS

Density	90 ±18% kg/m^3
Dynamic modulus of elasticity of 20 mm thick board under 2000 Pa load, max	0,3 MPa
Compressibility under load of 2000 Pa, max.	10 %
Heat conductivity, W/(m* °K), max.	0,034

SHUMOSTOP®-K2

Soundproofing mineral fiber boards

SHUMOSTOP-K2 soundproofing basalt fiber boards are a specialized high-quality product for use in the structures of soundproofing floating floors both as an edge liner and as an independent soundproofing solution.

APPLICATION

SHUMOSTOP-K2 boards are used for soundproofing in floating floor structures both as the main elastic layer and in combination with **SHUMOSTOP-S2** boards.

8,5 kg package weight

ΔL_{nw} 34* dB shock noise reduction index

ΔR_w 10 dB** additional air-borne sound insulation

20 mm board thickness

1200 x 300 mm panel working dimensions

3,6 m² quantity per package

FEATURES

- Professional soundproofing
- Non-combustible material

COMPOSITION

Water-repellent basalt fiber.

CERTIFICATES

Combustibility group NG

INSTALLATION

The **SHUMOSTOP-K2** edge boards are laid on the floor slab along walls and around columns when used together with Shumostop-S2 boards.

A separating layer of polyethylene film is laid on top of the boards.

On top of the PE film layer, a leveling reinforced sand cement screed of grade no lower than M300 is installed, with a thickness of no less than 60 mm for one layer and no less than 80 mm for two layers of Shumostop material.

The leveling screed installed along the room perimeter must be separated from the walls, columns

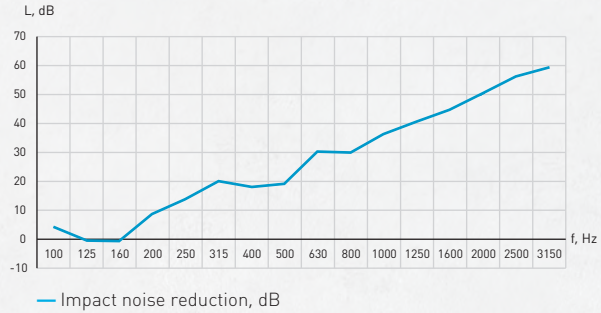
and utility systems by **SHUMOSTOP-K2** edge boards or a Vibrostack-M/Vibrostack-White cushion layer in 2 layers. It is recommended to install the boards using cotton gloves.

More details about the design and installation:
Process flow chart for installation of soundproofing floor structure using Shumostop/TK-011-2022, Engineering Solutions Album/ASP-601-0921.

Product details

IMPACT NOISE INSULATION

Acoustic tests were carried out by the acoustic measurement laboratory of the Scientific-Research Institute of Building Physics of the Russian Academy of Architecture and Construction Sciences, Moscow.
Test report dated 16.02.2016



ACOUSTIC CHARACTERISTICS

*weighted reduction of normalized shock noise level for soundproofing floor structure under screed of 100-120 kg/m2 when laying Shumostop-K2 boards in one layer - ΔL_{nw}	34 dB
**additional air-borne sound insulation index for soundproofing floor structure under screed of 100-120 kg/m2 when laying Shumostop-K2 boards in one layer – ΔR_w	10 dB

SPECIFICATIONS

Density	105 ±5 kg/m^3
Dynamic modulus of elasticity of 20 mm thick board under 2000 Pa load, max.	0,4 MPa
Compressibility under load of 2000 Pa, max.	10%
Heat conductivity, W/(m* °K), max.	0,034
Water absorption in 72 hours, max.	5%

SHUMOSTOP®-TECHNO

Sandwich panel for shock noise insulation

SHUMOSTOP-TECHNO – are sandwich panels consisting of mineral fiber boards glued to a foam base. Each panel contains 8 vibration insulating supports made of Sylomer material.

APPLICATION

These panels are laid under the floating floor screed as an elastic working layer, which ensures a high shock noise reduction, as well as a significant increase in the air-borne sound insulation.

The use of Sylomer material in **SHUMOSTOP-TECHNO** panels guarantees the preservation of the acoustic and operational properties of the soundproofing floor structure for at least 30 years.

ΔL_{nw} **41*** dB — shock noise reduction index

ΔR_w **10**** dB — additional air-borne sound insulation

33 mm — board thickness

1200 x 600 mm — panel working dimensions

FEATURES

- High degree of shock noise insulation – 41 dB
- Stable acoustic and operational properties of the floor for 30 years under high static and dynamic loads
- Additional air-borne sound insulation

COMPOSITION

Shumostop-Techno consists of mineral fiber boards glued to a foam base. Each panel contains 8 vibration insulating supports made of Sylomer material.

INSTALLATION

The **SHUMOSTOP-TECHNO** panels must be laid with the foamed layer facing up on a flat or pre-leveled base, joint to joint without a gap, with a mandatory offset of the joints of at least 150 mm.

The joints between the panels are tightly sealed with duct tape.

Along the room perimeter and around the columns, a Vibrostack-M150/Vibrostack-White150 tape liner is used with additional film covering.

The joint between the edge liner and the **SHUMOSTOP-TECHNO** panels is also tightly sealed with duct tape.

A sand cement screed of grade no lower than M300 and no less than 60 mm thick is laid over the **SHUMOSTOP-TECHNO** panels,

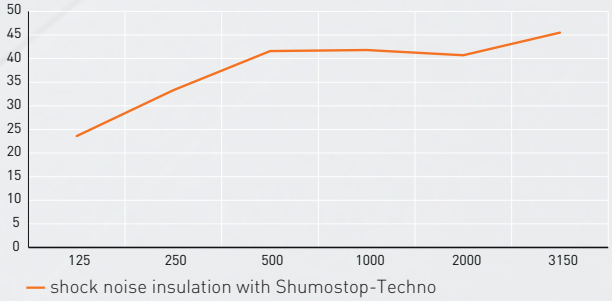
which is necessarily reinforced with a metal mesh to give it increased mechanical strength.

More details about the design and installation:
Process flow chart for installation of soundproofing floor structure using Shumostop/TK-013-2022, Engineering Solutions Album/ASP-601-0921.

Product details

IMPACT NOISE INSULATION

Acoustic tests were carried out by the acoustic measurement laboratory of the Scientific-Research Institute of Building Physics of the Russian Academy of Architecture and Construction Sciences, Moscow
Test report No. 2 dated 30.11.2016



IMPACT NOISE REDUCTION INDEX

*$\Delta L_{n,w}$ under screed with surface density of 100-120 kg/m^2	41 dB
$\Delta R_{n,w}$ index of additional air-borne sound insulation with one layer of Shumostop-Techno under screed of 100-120 kg/m^2	8-10 dB

SPECIFICATIONS

	Shumostop 350	Shumostop 600	Shumostop 1200
Relative panel compression at 100% load	10%		
Maximum permissible load	350 kg/m^2	600 kg/m^2	1200 kg/m^2
Natural resonance frequency of system at 100% load	11 Hz	11 Hz	10 Hz
Natural resonance frequency of system at 50% load	19 Hz	18 Hz	15 Hz

SHUMOPLAST®

Soundproofing leveling flooring

SHUMOPLAST – is a ready-to-use granulated mixture of elastic vibration insulating material, which, after application to the surface of the floor slab, functions as a soundproofing leveling layer under the screed, in "floating" floor structures.

APPLICATION

It is used as a soundproofing leveling liner under the screed in "floating" floor structures. Ideal for installation on an unprepared floor surface, locally covering drips, cracks and various utility systems, and effectively copes with reducing impact and structure-borne noise: moving furniture, stomping, operation of household appliances. It also provides additional insulation against air-borne sound: TV sound, music, barking dogs, crying children, etc.

ΔL_{nw} **31*** dB shock noise reduction index

ΔR_w **9**** dB additional air-borne sound insulation

20 mm uneven floor leveling

13,5 kg package weight

10 m² ***quantity per package в упаковке

*** layer thickness 2 cm

FEATURES

- Innovative leveling heat insulating and soundproofing coating
- Provides simultaneous insulation of air-borne and shock noise
- Easy installation and high speed of application
- Patented (No. 124273, No. 2507180)
- The Shumoplast material has successfully passed the procedure of expert assessment of building materials according to the EcoMaterial environmental standard. The product is safe for humans

COMPOSITION

The coating consists of polystyrene foam granulate processed using a special technology, a compensating rubber additive and an acrylic-based synthetic binder.

INSTALLATION

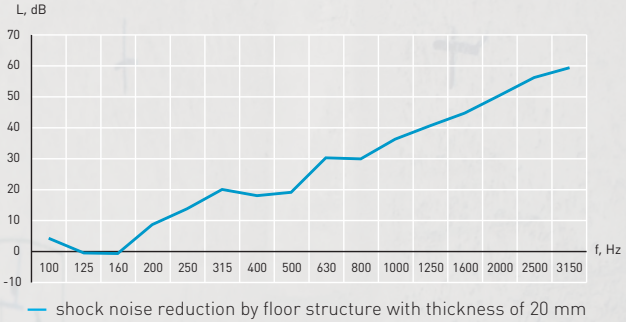
The **SHUMOPLAST** coating with a thickness of 20-50 mm is applied manually or mechanically directly to the floor slab and allows maintaining the stability of the acoustic characteristics of the soundproofing floor, despite such factors as the presence of protrusions, reinforcement, and utilities (pipes, cables).

More details about the design and installation:
Process flow chart for installation of soundproofing floor structure using Shumoplast/TK-010-2022, Engineering Solutions Album/ASP-601-0921.

Product details

IMPACT NOISE INSULATION

Acoustic tests were carried out by the acoustic measurement laboratory of the Scientific-Research Institute of Building Physics, Moscow. Test report dated 16.02.2016



ACOUSTIC CHARACTERISTICS

*index of shock noise reduction by floor structure with thickness of 20 mm - ΔL_{nw}	31 dB
** index of additional air-borne sound insulation by floor structure with thickness of 20 mm – ΔR_w	9 dB

SPECIFICATIONS

Density	67, 5 kg/m^3
Dynamic modulus of elasticity of 20 mm thick board with layer load of 2000 N/m^2, max.	0,2
Compressibility under load of 2000 Pa, max.	3%

CERTIFICATES

Environmental standard Ecomaterial 2.0

Combustibility group KM5

ZIPS®-FLOOR VECTOR

Entry-level panel system for floor soundproofing

The entry-level prefabricated soundproofing panel system **ZIPS FLOOR VECTOR** is an effective solution for additional soundproofing of inter-floor constructions. It helps solve problems of shock noise insulation, and also increases the insulation of air-borne "household" noise - speech, low-power television and radio equipment, etc.

APPLICATION

The **ZIPS FLOOR VECTOR** system is used in the construction and reconstruction of buildings to increase the soundproofing of reinforced concrete slabs between floors.

It is mainly used in residential premises when performing local repairs without the use of "wet" processes.

ΔL_{nw} **28 dB** shock noise reduction index

ΔR_w **8 dB** additional air-borne sound insulation

85 mm structure thickness

1200 x 600 mm panel working dimensions

19,5 kg panel weight

FEATURES

- Easy and fast installation
- Does not require "wet" work
- High efficiency with low thickness
- The development is patented (Russian Federation Patent No. 2140498

COMPOSITION

The sandwich panel consists of a combination of a "stiff" layer of moisture-resistant gypsum plasterboard and a "soft" layer of staple fiberglass, and also has eight vibration insulating S-supports made of Sylomer elastomer.
When installing **ZIPS FLOOR VECTOR** sandwich panels, 16.5 mm thick acoustic triplex Soundline-dB is used as sheathing boards, as well as a finishing board of 18 mm plywood, which is glued with a layer of elastic mastic or PVA glue.

INSTALLATION

The **ZIPS FLOOR VECTOR** panels are mounted on the flooring by laying the panels on a flat or pre-leveled floor base, the tongue-and-groove joints are additionally tightened together with self-tapping screws for moisture-resistant gypsum plasterboard.

The ends of sandwich panels and sheet materials must be adjacent to all side surfaces through two layers of Vibrostack-M/Vibrostack-White tape or one layer of ULTRAKUSTIK-TAPE F100 tape.

On top of the **ZIPS FLOOR VECTOR** panel, boards of acoustic triplex Soundline-dB are attached using self-tapping screws for moisture-resistant gypsum plasterboard and boards of 18 mm thick plywood.

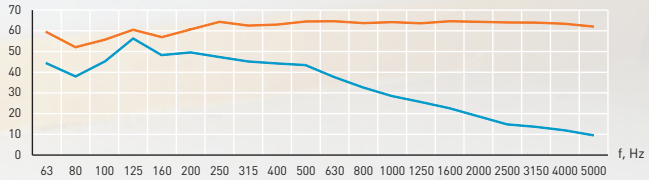
After installation is complete, the protruding edges of Vibrostack-M/Vibrostack-White/ULTRAKUSTIK-TAPE F100 are cut off and all joints are filled with Vibroseal sealant or ULTRAKUSTIK vibroacoustic sealant.

More details about the design and installation:
Process flow chart for installation of soundproofing system ZIPS FLOOR/TK-014-2023, Engineering Solutions Album/ASP-601-0921.

Product details

IMPACT NOISE INSULATION

Acoustic tests were carried out by the LAISF Acoustics and Building Physics Laboratory. Test report No. 10172-060-0518 dated 18.05.2018



— Monolithic reinforced concrete floor slab, 200 mm thick

— Monolithic reinforced concrete floor slab with a thickness of 200 mm + ZIPS Floor Vector system with 16.5 mm thick Soundline-dB triplex mounted on them and a 15 mm plywood finishing board

SPECIFICATIONS

surface density of ZIPS Floor Vector panel	26 kg/m^2

CERTIFICATES

Environmental standard
Ecomaterial 2.0

Flammability group	V1
Combustion product toxicity group	T1
Smoke generation ability group	D1
Flame propagation group	RP1

ZIPS®-FLOOR MODUL

Basic level panel system for floor soundproofing

The basic level prefabricated soundproofing panel system **ZIPS-FLOOR MODUL** is an effective solution for additional soundproofing of inter-floor slabs.

It helps solve problems of shock noise insulation, and also increases the insulation of air-borne sound – speech, household television and radio equipment, etc. (the operating range of the system for air-borne sound insulation is 80 Hz or more).

APPLICATION

The **ZIPS-FLOOR MODUL** system is used in the construction and reconstruction of buildings to increase the soundproofing of inter-floor slabs made of reinforced concrete slabs.

It is mainly used in residential premises when performing local repairs without the use of "wet" processes.

ΔL_{nw} **32 dB** shock noise reduction index

ΔR_w **9 dB** additional air-borne sound insulation

110 mm structure thickness

1200 x 600 mm panel working dimensions

20 kr panel weight

FEATURES

- Easy and fast installation work
- Does not require "wet" work
- High efficiency with low thickness
- The development is patented (Patent No. 2140498)

COMPOSITION

ZIPS-FLOOR MODUL sandwich panel is a combination of a layer of moisture-resistant gypsum plasterboard and basalt-basedmineral fiber. Each sandwich panel contains eight vibration insulating S-supports made of Sylomer elastomer.

When installing **ZIPS-FLOOR MODUL** sandwich panels, 16.5 mm thick acoustic triplex Soundline-dB is used as sheathing boards, as well as a finishing board of 18 mm plywood, which is glued with a layer of elastic mastic or PVA glue.

INSTALLATION

The **ZIPS-FLOOR MODUL** panels are mounted on the flooring by laying the panels on a flat or pre-leveled floor base, the tongue-and-groove joints are additionally tightened together with self-tapping screws for moisture-resistant gypsum plasterboard.

The ends of sandwich panels and sheet materials must be adjacent to all side surfaces through two layers of Vibrostack-M/Vibrostack-White tape or one layer of ULTRAKUSTIK-tape F100 tape.

On top of the **ZIPS-FLOOR MODUL** panel, boards of acoustic triplex Soundline-dB are attached using self-tapping screws for moisture-resistant gypsum plasterboard and boards of 18 mm thick plywood.

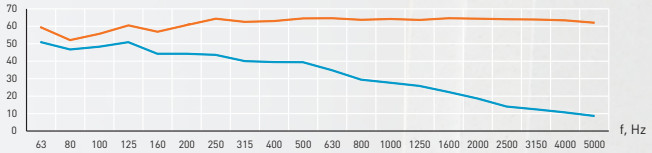
After installation is complete, the protruding edges of Vibrostack-M/Vibrostack-White/ULTRAKUSTIK-tape F100 are cut off and all joints are filled with Vibroseal sealant or ULTRAKUSTIK vibroacoustic sealant.

More details about the design and installation:
Process flow chart for installation of soundproofing system ZIPS FLOOR/TK-014-2023, Engineering Solutions Album/ ASP-601-0921.

Product details

IMPACT NOISE INSULATION

Acoustic tests were carried out by the LAISF Acoustics and Building Physics Laboratory. Test report No. 10173-060-0518 dated 18.05.2018



— Monolithic reinforced concrete floor slab, 200 mm thick

— Monolithic reinforced concrete floor slab with a thickness of 200 mm + ZIPS Floor Modul system with 16.5 mm thick Soundline-dB triplex mounted on them and a 15 mm plywood finishing board

SPECIFICATIONS

Surface density of ZIPS Floor Modul panel assembly	27,5 kg/m^2

CERTIFICATES

Environmental standard
Ecomaterial 2.0

Flammability group	V1
Combustion product toxicity group	T1
Smoke generation ability group	D1
Flame propagation group	RP1

SHUMANET®-THERMO

Heat-insulating and soundproofing mat

SHUMANET-THERMO is a heat insulating and soundproofing material designed for use as an elastic layer in the structures of "floating" soundproofing floors in order to increase the heat insulation of the floor slab and reduce the transmission of shock noise through it.

APPLICATION

SHUMANET-THERMO is used in the construction, reconstruction and restoration of buildings and structures of all types

and purposes in order to improve the heat insulation of the floor slab and reduce the transmission of shock noise through it.

ΔL_{nw} **30*** dB — shock noise reduction index

0,6 — sound absorption index

9 mm — fabric thickness

9,8 m² — quantity per package

14,5 kg — package weight

FEATURES

- Non-woven fabric reduces the emission of particles of the elastic sound-absorbing layer fibers
- Combination of soundproofing, sound-absorbing and heat-insulating properties in one material
- High shock noise reduction rates – up to 30 dB
- High sound absorption characteristics
- High heat-insulating properties

COMPOSITION

The **SHUMANET-THERMO** material consists of an elastic fibrous sound-absorbing layer on a mineral base, enclosed in a non-woven shell.

INSTALLATION

Before starting the installation of a floor structure using **SHUMANET-THERMO** material, it is necessary to thoroughly clean the base from construction waste. The base must be leveled, protruding elements in the form of reinforcement and concrete sagging must be removed.

More details about the design and installation:
Process flow chart for installation of soundproofing floor structure using Shumanet-Thermo/TK-012-2022, Engineering Solutions Album/ASP-601-0921.

Product details

SPECIFICATIONS

Heat conductivity, max.	0,027 W/(m.K)
*weighted reduction of normalized shock noise level ΔLnw under leveling screed with surface density of 120 kg/m^2	30 dB
**sound absorption index α_w at space between insulation and insulated surface of 40 mm from hard surface	0,6

AKUFLOOR®-S20

Glass board for shock noise insulation

AKUFLOOR-S20 soundproofing floor boards are made using a special technology from fiberglass, which has low shrinkage under load, while also having a low value of the dynamic modulus of elasticity. In combination with high resistance to mechanical loads, the design of the soundproofing floor based on **AKUFLOOR-S20** boards is a highly effective system for soundproofing floor slabs from shock noise and air-borne sound.

APPLICATION

AKUFLOOR-S20 soundproofing boards are used as a working elastic layer under the leveling screed in the structures of the "floating" soundproofing floors.

13 kg — package weight

ΔL_{nw} 36* dB — shock noise reduction index

ΔR_w 10* dB — additional air-borne sound insulation

20 mm — board thickness

1200 × 600 mm — panel working dimensions

7,2 m² — quantity per package

FEATURES

- Low shrinkage under load
- Low value of dynamic modulus of elasticity
- High resistance to mechanical stress
- Easy and convenient installation

COMPOSITION

Water-repellent mineral fiber.

CERTIFICATES

Combustibility group NG

INSTALLATION

AKUFLOOR-S20 boards are laid over the entire floor slab surface. A separating layer of polyethylene film is laid on top of the boards.

On top of the PE film layer, a leveling reinforced sand cement screed of grade no lower than M300 is installed, with a thickness of no less than 60 mm.

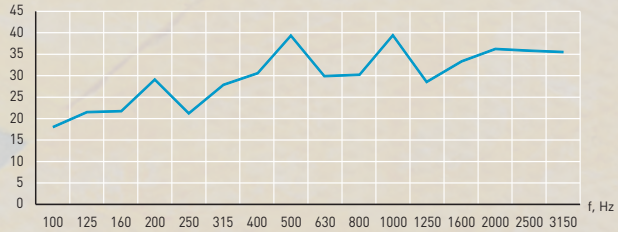
The leveling screed installed along the room perimeter must be separated from the walls, columns and utility systems by edge liner and **AKUFLOOR-S20** materials in one layer or by Vibrostack-M material in 2 layers.

It is recommended to install the boards using cotton gloves.

Product details

IMPACT NOISE REDUCTION

Acoustic tests were carried out by the acoustic measurement laboratory of the Scientific-Research Institute of Building Physics of the Russian Academy of Architecture and Construction Sciences, Moscow.
Test report No. 1 dated 08.2017



ACOUSTIC CHARACTERISTICS

*index of shock noise reduction by floor structure when laying boards in one layer – ΔL_{nw}	36 dB
**index of additional air-borne sound insulation – ΔR_w	10 dB

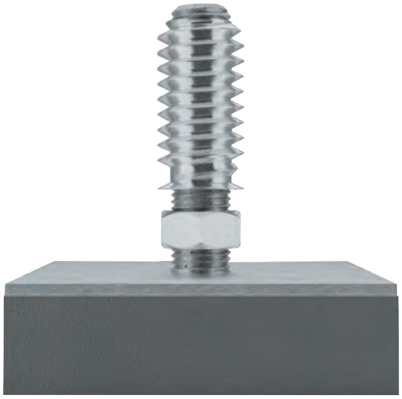
SPECIFICATIONS

Density	90 kg/m^3
Dynamic modulus of elasticity of 20 mm thick board with layer load of 2000 N/m^2, max.	0,3 MPa
Compressibility under load of 2000 Pa, max.	5%

VIBROFLEX®-LD

Vibration insulating adjustable support for floors over joists

The **VIBROFLEX-LD** supports have the ability to adjust the height and allow to level out any unevenness in the subfloor up to 25 mm.



APPLICATION

VIBROFLEX-LD are used as an elastic element when installing soundproofing floors over joists.

height of support with rod

support dimensions

support weight

FEATURES

- High efficiency and protection against air-borne and shock noise
- Simple technology, fast installation and no wet work
- No preliminary leveling of the base is required (if differences are no more than 25 mm)
- The ability to adjust the supports allows to level out any unevenness in the subfloor during the installation stage
- The mounting studs have a hexagonal recess for a d 4 mm key, which allows adjustment from above

COMPOSITION

The **VIBROFLEX-LD** support is a distribution plate with a stud and an elastic element complete with a threaded sleeve and a lock nut.

The highly effective vibration insulating material Sylomer, manufactured by Getzner Werkstoffe GmbH, is used as an elastic element.

INSTALLATION

VIBROFLEX-LD vibration insulating supports are installed with a pitch of 700-800 mm along a joist made of a timber with a cross-section of 50x50 mm.

To install the support, through holes with a 9.5 mm diameter are made.

Using a hex key, threaded bushings are screwed into the resulting holes, into which the main support elements are subsequently screwed.

The joists are laid on the base with the supports facing down.

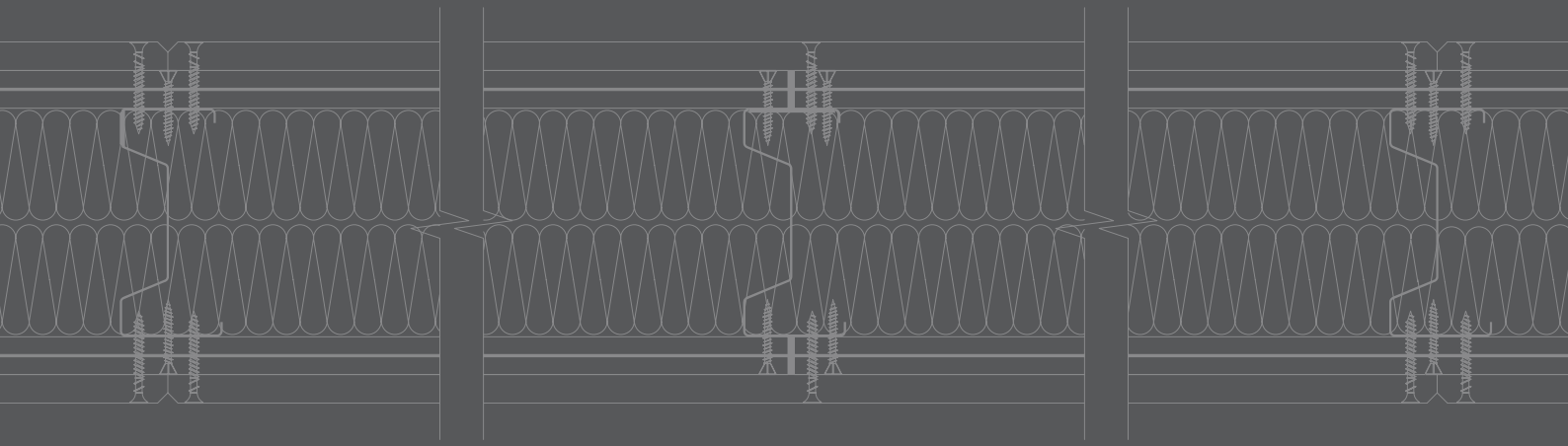
Local differences in the base are leveled out using a threaded support rod and a lock nut.

CONSUMPTION:

With a joist pitch of 300 mm – 4.3 pcs/m^2
With a joist pitch of 400 mm – 3.2 pcs/m^2

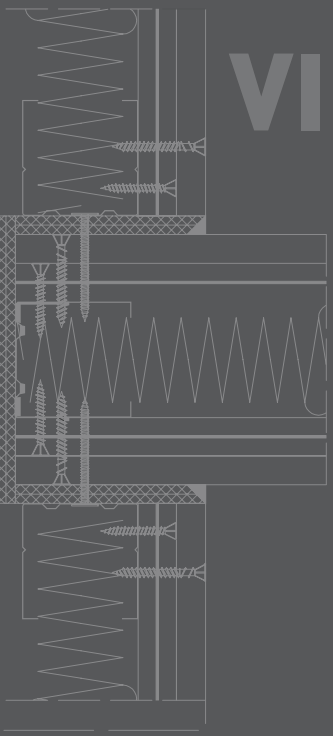
More details about the design and installation:
Process flow chart for installation of soundproofing floor structure over joists using Vibroflex/TK-015-2023, Engineering Solutions Album/ASP-601-0921.

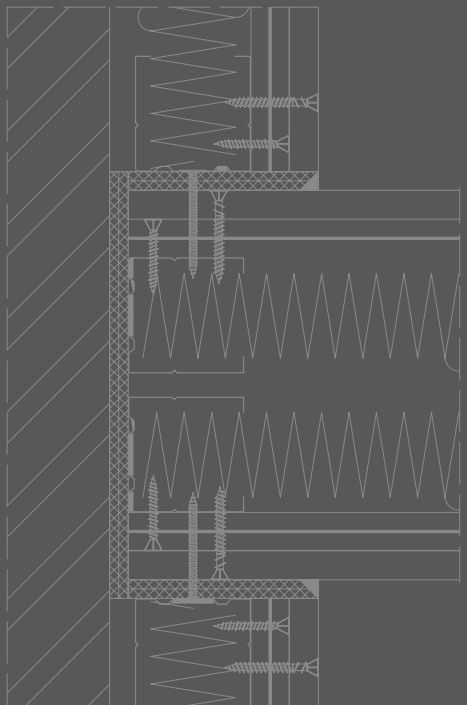
Product details

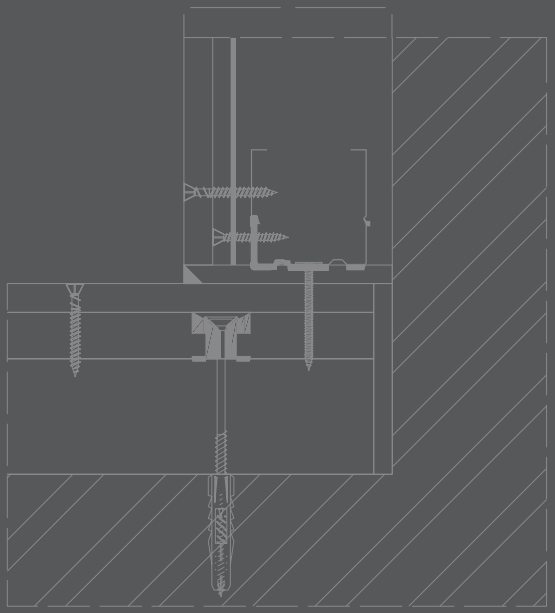


VIBROSTACK

VIBROSEAL VIBROFLEX







SOUNDPROOFING ACCESSORIES

This section presents soundproofing accessories: tape liners, sections, vibration insulating sealants, etc. All accessories presented in this section are mandatory for use to achieve maximum effect.

VIBROSTACK®-M100/150/V300

Soundproofing tape liner

VIBROSTACK-M is a soundproofing tape liner made of multilayer glass-fiber mat, which reduces the level of structure-borne and shock noise.

APPLICATION

It is used as a shock-absorbing layer during installation of frameless ZIPS systems, framed soundproofing lining of walls, partitions and ceiling slabs, and also as an edge layer during installation of "floating" soundproofing floors.

ΔR_w 6* dB — specific soundproofing of material

4 mm — material thickness

100/150 mm — tape width

30 m — roll length

FEATURES

- Protection against structure-borne noise with low thickness
- Resistance to loads of varying intensity
- Long service life
- Well cut
- Convenient packaging
- *Increases the structure soundproofing by +6 dB when used together with Vibroseal vibroacoustic sealant

COMPOSITION

Multilayer glass-fiber mat.

INSTALLATION

When installing soundproofing structures, the **VIBROSTACK-M** tape liner is laid in two layers in places where it rests on the floor, as well as in places where it adjoins the side walls and ceiling. **VIBROSTACK-M** material tapes are also used to separate utility systems coming out of or adjacent to soundproofing structures.

SPECIFICATIONS

Surface density	300 g/m^2
Dynamic modulus of elasticity εd under 2 kPa load	0,18 MPa
Dynamic modulus of elasticity εd under 5 kPa load	0,35 MPa
Relative compression ratio εd under 2 kPa load	0,25
Relative compression ratio εd under 5 kPa load	0,35

CERTIFICATES

The material is certified in the GOST R system

Not subject to mandatory confirmation of compliance

Product details

VIBROSTACK®-WHITE

Soundproofing tape liner

VIBROSTACK-WHITE is a soundproofing tape liner made of multilayer white glass-fiber mat, which reduces the level of structure-borne and shock noise.

APPLICATION

It is used as a shock-absorbing layer during installation of frameless ZIPS systems, framed soundproofing lining of walls, partitions and ceiling slabs, and also as an edge layer during installation of "floating" soundproofing floors.

ΔR_w 6* dB — additional air-borne sound insulation

4 mm — material thickness

100/150/1200 mm — tape width

30/450 m — roll length

FEATURES

- Well cut
- Due to its higher density, it does not sag when mounted on the ceiling

COMPOSITION

Multilayer white soundproofing glass-fiber mat.

*Increases the structure soundproofing by +6 dB when used together with Vibroseal vibroacoustic sealant.

INSTALLATION

When installing soundproofing structures, the **VIBROSTACK-WHITE** VIBROSTACK-WHITE tape liner is laid in two layers in places where it rests on the floor, as well as in places where it adjoins the side walls and ceiling. **VIBROSTACK-WHITE** material tapes are also used to separate utility systems coming out of or adjacent to soundproofing structures.

Product details

SPECIFICATIONS

Surface density	450 g/m^2
Dynamic modulus of elasticity εd under 2 kPa load	0,14 MPa
Dynamic modulus of elasticity εd under 5 kPa load	0,16 MPa
Relative compression ratio εd under 2 kPa load	0,48
Relative compression ratio εd under 2 kPa load	0,43

CERTIFICATES

The material complies with the unified sanitary-epidemiological and hygienic requirements for goods subject to sanitary-epidemiological control.

VIBROSEAL®

Vibroacoustic sealant

VIBROSEAL one-component vibroacoustic silicone sealant is designed for sealing joints in special soundproofing structures.

APPLICATION

It is used for filling joints in the structures of soundproofing floating floors, ZIPS panel systems, framed soundproofing partitions, lining and suspended ceilings.

ΔR_w 6* dB — specific soundproofing of material

290 ml — tube volume

0,38 kg — tube weight

FEATURES

- Reliable sealing regardless of joint thickness
- No odor
- Not corrosive
- Resistant to changes in humidity, temperature fluctuations and solar radiation
- Good adhesive properties
- *Increases the structure soundproofing by +6 dB when used together with the Vibrostack-M liner

COMPOSITION

The sealant is made on the basis of silicone resins and silicon-containing modifying additives.

INSTALLATION

Clean the surfaces to be sealed from traces of dust, moisture and grease. Apply masking tape along the surfaces of the joint to be sealed.

Cut off the cartridge screw head above the threads. Screw on the nozzle and cut the tip at a 45° angle to obtain the required cross-section.

Fill the joint with sealant using a plunger gun. Remove excess sealant and form the joint surface. Remove the masking tape and clean the edges of the joint if necessary.

Product details

VIBROACOUSTIC CHARACTERISTICS

Acoustic tests were carried out by the acoustic measurement laboratory of the Scientific-Research Institute of Building Physics of the Russian Academy of Architecture and Construction Sciences, Moscow.

Test report No. 398-002-00 dated 27.04.2012

name of material, unloaded thickness	dynamic stiffness index S', MN/m³ and loss ∩ factor under sample, кПа			
Vibroseal vibroacoustic sealant, 4 columns, 6 mm thick	S'	∩	S'	∩
	150	0,28	240	0,25

Application temperature	от -10°C до +40°C
Operating temperature	от -40°C до +150°C
Storage temperature	от 0°C до +25°C
Material drying under normal conditions	55% humidity and +20°C
Guaranteed shelf life	18 months

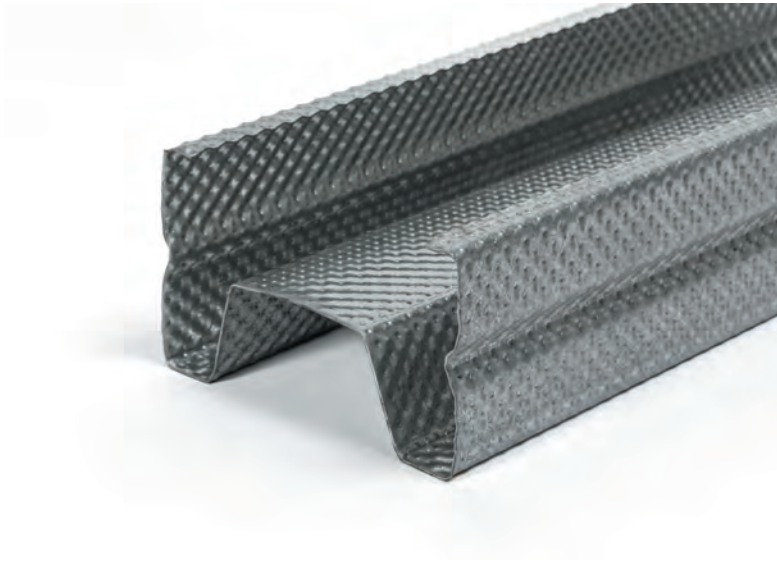
CERTIFICATES

The material has a hygienic certificate and an acoustic measurement report. Not subject to mandatory fire certification.

The material complies with the unified SanEiG requirements for goods subject to sanitary and epidemiological supervision (Expert Opinion No. 262g/2017 issued by the Head Center of Hygiene and Epidemiology).

VIBROFLEX®-WAVE

Metal W-shaped stud



VIBROFLEX-WAVE is a specialized stud for soundproofing partitions, containing a linear elastic element, due to which the passage of structure-borne noise through the metal frame is reduced.

APPLICATION

It is used in the structures of framed sheathing partitions with increased soundproofing performance (up to 72 dB).

Compared to the standard U-shaped stud, the use of the **VIBROFLEX-WAVE** section increases the partition soundproofing by 2 dB.

ΔR_w **2 dB** specific soundproofing of material

100 mm section width

3/6/11 m section size

40 mm section depth

FEATURES

- Providing increased soundproofing in single and double frame partition systems
- Integrated linear elastic element to reduce the transmission of structure-borne noise

COMPOSITION

The **VIBROFLEX-WAVE** 100 mm stud is manufactured by cold rolling from galvanized steel with a thickness of 0.6 mm. Contains a linear elastic element that reduces the passage of structure-borne noise through the metal frame.

.

INSTALLATION

The **VIBROFLEX-WAVE** stud is used in framed systems with 100 mm wide metal guide sections.

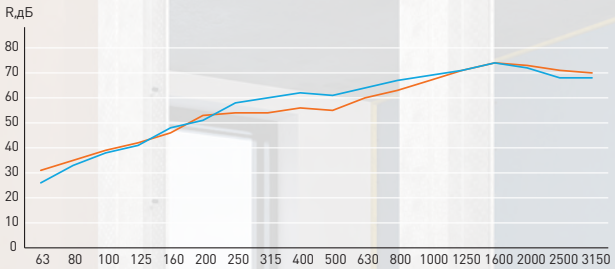
It is used for the construction of partitions with increased soundproofing requirements - in cinemas, concert halls, recording studios and film studios.

The use of **VIBROFLEX-WAVE** 100 mm sections allows for the construction of a self-supporting soundproofing partition on two connected frames up to 6 meters high without deteriorating its acoustic properties.

Product details

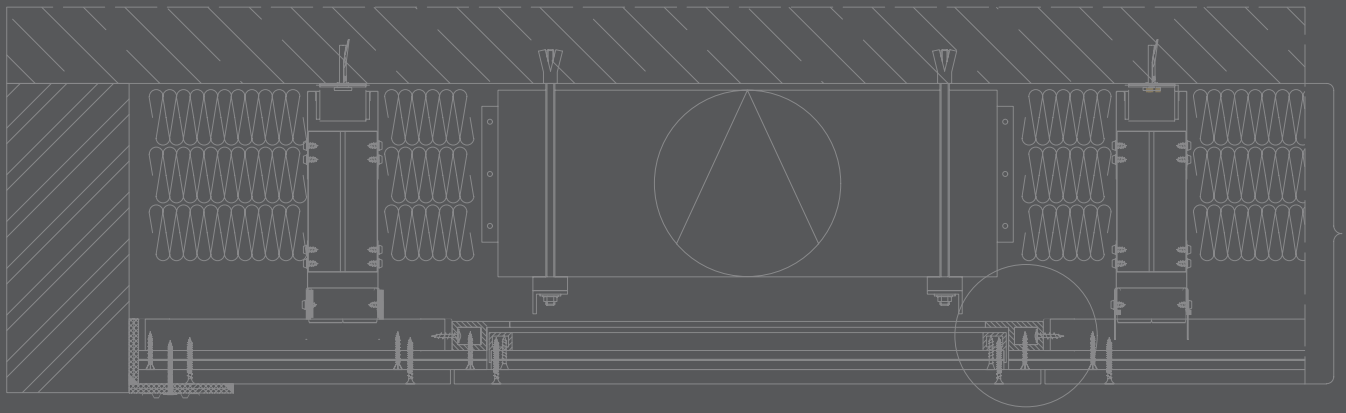
AIR-BORNE SOUND INSULATION

Acoustic tests were carried out by the acoustic measurement laboratory of Nizhny Novgorod State University of Architecture and Civil Engineering, Nizhny Novgorod

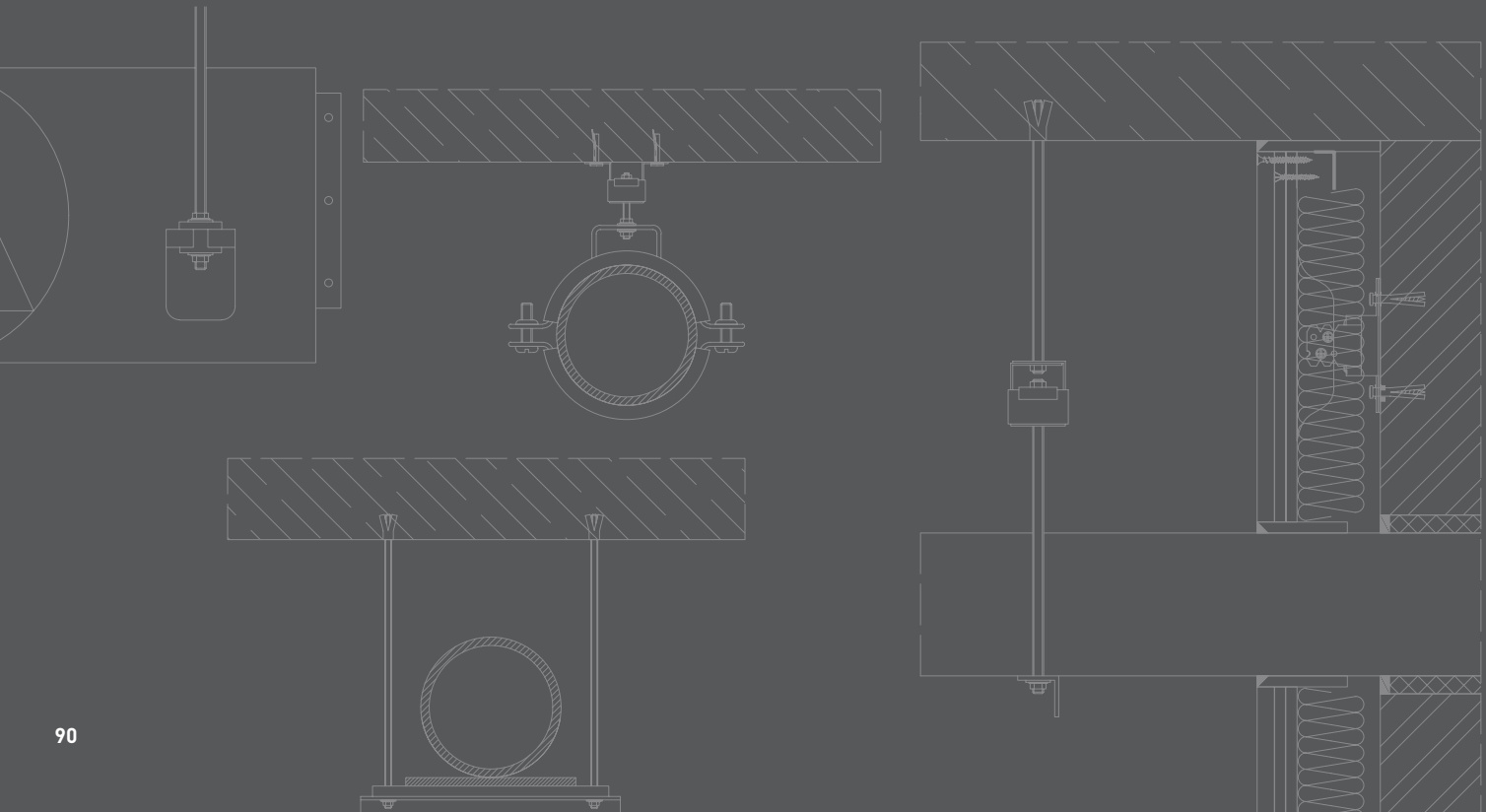


— partition based on a 100mm U-shaped stud, sheathed on each side with a Soundline-dB board and an Aku-Line gypsum board, R_w=62 dB

— partition based on a VIBROFLEX-Wave 100mm stud, sheathed on each side with a Soundline-dB board and an Aku-Line gypsum board, R_w=64 dB



VIBROFLEX



VIBROFLEX® VIBRATION INSULATING MOUNTS FOR VIBRATION INSULATION

Modern buildings are seriously and densely equipped with various engineering systems, many of which, due to their features, are attached to the inter-floor slabs, for example, the ventilation system.

In turn, one of the side effects of the operation of such systems and equipment is vibration, which is transmitted to the load-bearing structures of a building and reduces the comfort of staying in it. One of the means of combating this source of vibration is the use of Vibroflex vibration insulating hangers during installation of power units and utility systems of various engineering equipment.

TYPE 1

VIBROFLEX type 1 hangers are mounted directly to the floor slab for surface mounting of various engineering equipment. A special vibration insulating material, Sylodyn, is used as an elastic element of the hanger. The effective working load range is from 7 to 70 kg. To hang the equipment, M8 thread studs are used.

Product details

TYPE 2

The **VIBROFLEX** type 2 ceiling hanger design is a screw fastening M6, connected to a metal plate with holes for fixing on the supporting surface. A special vibration insulating material, Sylodyn, is used as an elastic element of the hanger. The effective working load range is from 3 to 70 kg according to the table.

Product details

TYPE 3

VIBROFLEX type 3 vibration insulating mount is used both for mounting attachments and for installing floor units on a base. Connection thread size – M6. The effective working load range is from 7 to 15 kg. A special vibration insulating material, Sylodyn, is used as an elastic element of the hanger. One type of **VIBROFLEX 3/15** hangers is produced.

Product details

TYPE 4

VIBROFLEX type 4 vibration insulating mount is used for surface mounting of power units and utility systems of various engineering equipment to reduce the transmission of vibrations to the enclosing structures of the building. Connection thread size – M8. A special vibration insulating material, Sylodyn, is used as an elastic element of the hanger. The effective working load range is from 7 to 70 kg.

Product details

by Acoustic Group

ULTRAKUSTIK

ASSEMBLE YOUR OWN SOUNDPROOFING!

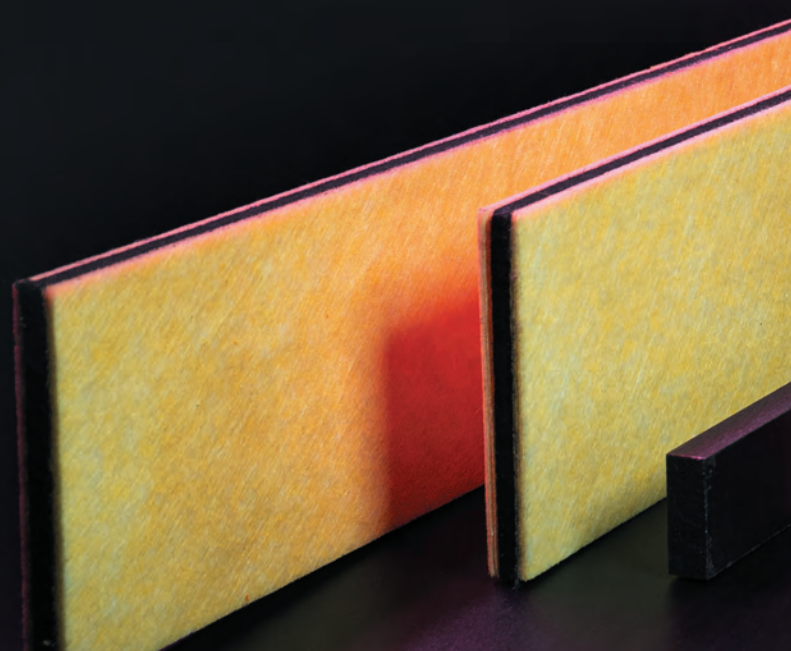
THE LINE OF ULTRAKUSTIK MATERIALS IS AN INNOVATIVE APPROACH TO INCREASING SOUNDPROOFING OF FLOORS, WALLS AND CEILINGS BASED ON SPECIAL ACCESSORIES. ULTRAKUSTIK IS WELL USED IN CASES WHEN ORDINARY PLASTERBOARD IS USED IN THE ROOM FINISHING

The ULTRAKUSTIK accessory line is a solution in which the use of all branded elements is not a mandatory condition to obtain the declared noise reduction characteristics.

By using this solution, it is possible to design your own soundproofing, controlling future efficiency with the number of accessories used.

7 REASONS TO CHOOSE ULTRAKUSTIK® ACCESSORIES

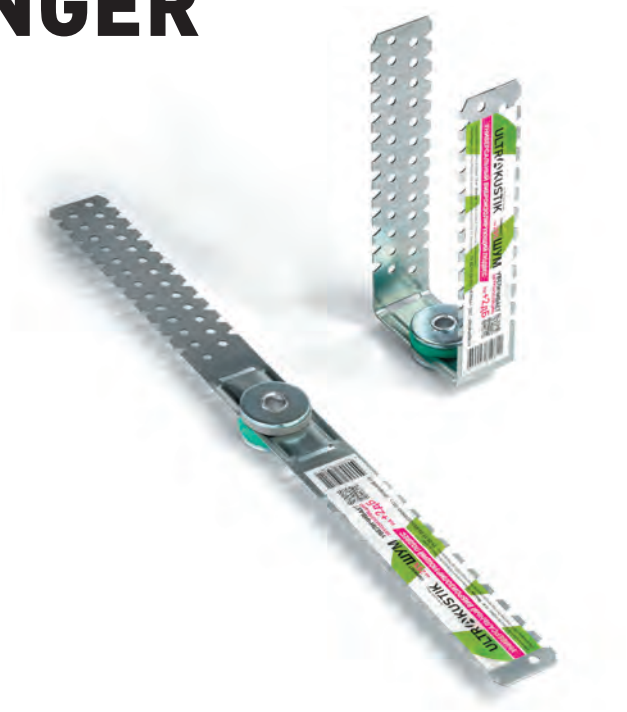
1. Fully suitable for gypsum board structures of all known brands
2. Eliminate acoustic bridges and soften the junction of some materials with others
3. Increase plasterboard soundproofing
4. Allows to maintain the tightness of insulated surfaces
5. You pay only for the accessories you need
6. Availability throughout the Russian Federation due to fast delivery and dimensions
7. Each element can be used together with other materials



ACOUSTIC TUNING SYSTEM WITH ULTRAKUSTIK ACCESSORIES ALLOWS TO REDUCE NOISE AND INCREASE COMFORT IN ROOMS

ULTRAKUSTIK® **HANGER**

Universal vibration insulating hanger



ULTRAKUSTIK universal vibration insulating hanger is a budget version of a vibration insulating hanger for structures of framed suspended ceilings and wall lining.

APPLICATION

Compared to the use of standard direct hangers, it reduces the noise level in the insulated room by 25%, which is equivalent to increasing the air-borne sound insulation index of the entire structure by ΔR_w = 2dB. The maximum efficiency of using **ULTRAKUSTIK** vibration hangers is manifested in the low-frequency range from 100 to 315 Hz.

ΔR_w 2 dB — specific soundproofing of material

15 kg — hanger load capacity

FEATURES

- Increase in the air-borne sound insulation index of the structure by 2 dB compared to standard direct hanger
- Power hanger, 1 mm thick
- Extended hanger shelves provide the ability to install the frame at a distance of up to 150 mm from the wall or ceiling surface
- Stability of vibroacoustic properties over a long period of time (more than 30 years)
- Can be used as a stand-alone element or together with other accessories in the ULTRAKUSTIK line

COMPOSITION

A combination of Sylodyn/Sylomer elastomers is used as a working vibration insulating element in the hanger design.

INSTALLATION

The installation method of **ULTRAKUSTIK** universal vibration insulating hangers is no different from the installation of standard direct hangers from other manufacturers.

The **ULTRAKUSTIK** hangers with the grey elastomer layer side are mounted directly to walls or ceiling slabs through a central hole using metal anchor nails Ø 6 mm.

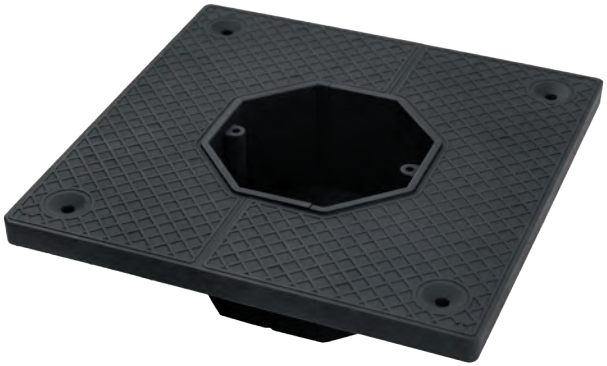
Each 1 m^2 of ceiling (sheathing: 2 sheets of moisture-resistant gypsum plasterboard/gypsum board) must have an average of 2.7 hangers. Each hanger is designed to bear a load of 15 kg.

Product details

ULTRAKUSTIK® **SOCKET BOX**

Soundproofing socket box

The soundproofing fireproof **ULTRAKUSTIK** ULTRAKUSTIK socket box is used for installing sockets or switches in framed or frameless soundproofing structures.
Blocks sound penetration through openings for sockets and switches, maintaining the tightness of soundproofing structures.



APPLICATION

Compatible with all types of soundproofing lining and partition structures, including the ZIPS panel system (compatible with ZIPS Slim, provided that a preliminary recess is made in the original wall, which prevents the back of the socket box from touching the insulated surface).

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from **1** to **5** posts

150 MM socket box width

40 mm junction box depth

FEATURES

- Specially developed formula of fire-resistant acoustic compound
- The massive body and ultrasonic welding guarantee maximum tightness of the socket box
- The universal design of the socket box is compatible with most modern types and sizes of sockets and switches
- The front side of the socket box has diagonal notches for maximum adhesion of the putty
- Can be used as a stand-alone element or together with other accessories in the ULTRAKUSTIK line

COMPOSITION

The **ULTRAKUSTIK** socket box body is made of self-extinguishing halogen-free ABS plastic.

INSTALLATION

On the first layer of the sheathing of framed soundproofing structures or ZIPS sandwich panels, it is necessary to make markings and, using a jigsaw or hand saw, cut out a hole for installing the **ULTRAKUSTIK** socket box.

Next, the **ULTRAKUSTIK** socket box is installed in the prepared hole and fixed to the soundproofing structure with self-tapping screws. Before installation, a hole is cut in the socket box body to allow the wire to enter.

After installing the socket box, the location where the wire comes out is sealed using Vibroseal sealant.

In the finishing layer of the sheathing, it is also necessary to cut a hole to the size of the outer part of the socket box.

After installing the finishing layer of Gyproc AKU-LINE gypsum boards, the surface around the socket box is filled with any filler mixtures.

After the putty layer has dried, sockets and switches are installed.

Product details

ULTRAKUSTIK® **SEALANT**

Vibroacoustic sealant

Modified vibroacoustic silicone sealant **ULTRAKUSTIK** is designed for sealing joints in special soundproofing structures.

APPLICATION

It is used to fill joints in the structures of soundproofing floating floors, framed soundproofing partitions, lining, suspended ceilings and the ZIPS panel system, as well as in combination with other **ULTRAKUSTIK** accessories.

ΔR_w 2* dB specific soundproofing of material

290 ml tube volume

0,38kg tube weight

FEATURES

- Reliable sealing regardless of joint thickness
- High protective properties
- Not corrosive
- Resistant to changes in humidity, temperature fluctuations and solar radiation
- Good adhesive properties
- Maintains stable elasticity after drying
- Can be used as a stand-alone element or together with other accessories in the ULTRAKUSTIK line

COMPOSITION

The sealant is made on the basis of silicone resins and silicon-containing modifying additives.

SPECIFICATIONS

Application temperature	+5°C to +40°C
Operating temperature	-40°C to +150°C
Storage temperature	+5°C to +25°C
Guaranteed shelf life	12 months

Name of material, unloaded thickness	Dynamic stiffness index S', MN/m³ and loss factor under sample load of 52.38 kPa	
ULTRAKUSTIK sealant, 4 columns, 15 mm thick	S'	∩
	138	0.23

AIR-BORNE SOUND INSULATION

ΔR_w = 12 dB* (+2 dB)** ,
where * - index of additional soundproofing of the entire structure (Brick wall 120 mm + ULTRAKUSTIK F100 tape + ULTRAKUSTIK-Vibroprofil + 1 layer of Shumostop-S2 cotton wool + 12.5 mm gypsum board + 3.7 mm ULTRAKUSTIK membrane + 12.5 mm gypsum board + ULTRAKUSTIK sealant).

** - specific soundproofing efficiency of the material as part of the structure in the ULTRAKUSTIK soundproofing accessory system

INSTALLATION

Clean the surfaces to be sealed from traces of dust, moisture and grease. Apply masking tape along the surfaces of the joint to be sealed.

Cut off the cartridge screw head above the threads. Screw on the nozzle and cut the tip at a 45° angle to obtain the required cross-section.

Fill the joint with sealant using a plunger gun. Remove excess sealant and form the joint surface.

Remove the masking tape and clean the edges of the joint if necessary

Product details

ULTRAKUSTIK®-TAPE F100

Soundproofing tape liner

ULTRAKUSTIK-TAPE F100 is an elastic vibration insulating tape made of 100% polyester fiber.

APPLICATION

ULTRAKUSTIK-TAPE F100 is used for acoustical uncoupling of frameless ZIPS systems, framed soundproofing lining of walls, partitions and ceiling slabs, and also as an ed.

ΔR_w **2 dB** specific soundproofing of material

6 mm material thickness

100 mm tape width

15 m roll length

1 kg package weight

FEATURES

- Increased thickness for 1-layer installation
- Effective protection against structure-borne and shock noise
- Strength and resistance to mechanical stress
- Absolute environmental safety
- Long service life
- Increases the structure soundproofing by +2 dB
- Can be used as a stand-alone element or together with other accessories in the ULTRAKUSTIK line

COMPOSITION

100% polyester heat-bonded fiber.

INSTALLATION

When installing soundproofing structures, the **ULTRAKUSTIK-TAPE F100** tape liner is glued in one layer in places where the soundproofing structures come into contact with the side walls, floor and ceiling. Provides maximum effect when used with the Vibroseal or ULTRAKUSTIK vibroacoustic sealant.

SPECIFICATIONS

Surface density	700 g/m^2
Dynamic modulus of elasticity εd under 2 kPa load	0,22 MPa
Dynamic modulus of elasticity εd under 5 kPa load	0,35 MPa
Relative compression ratio εd under 2 kPa load	0,03
Relative compression ratio εd under 5 kPa load	0,08

AIR-BORNE SOUND INSULATION

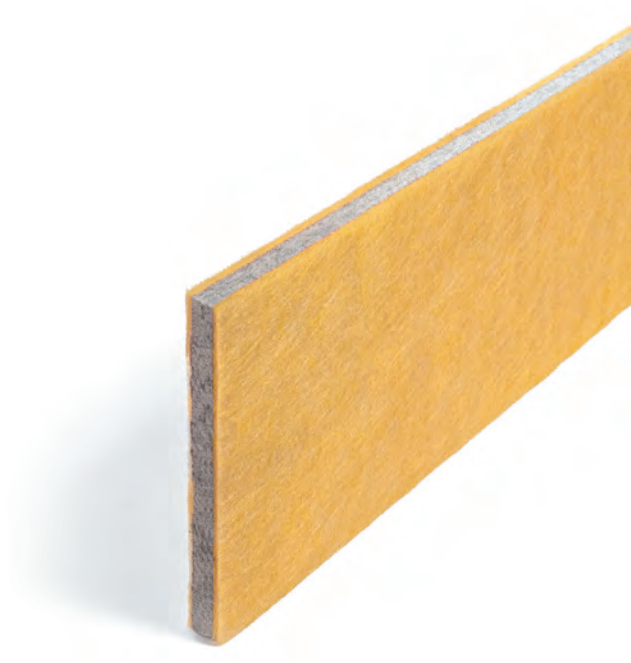
ΔR_w = 12 dB* (+2 dB)** ,
where * - index of additional soundproofing of the entire structure (Brick wall 120 mm +ULTRAKUSTIK F100 tape + ULTRAKUSTIK-Vibroprofil + 1 layer of Shumostop-S2 cotton wool + 12.5 mm gypsum board + 3.7 mm ULTRAKUSTIK membrane + 12.5 mm gypsum board + ULTRAKUSTIK sealant) on a 120 mm brick wall,

** - specific soundproofing efficiency of the material as part of the structure in the ULTRAKUSTIK soundproofing accessory system

Product details

ULTRAKUSTIK®
ACOUSTIC JOINT

for creating acoustic expansion joints



ULTRAKUSTIK acoustic joint is a combination of soundproofing and vibration insulating materials, connected with **ULTRAKUSTIK** glue.

APPLICATION

It is designed for installation as an edge layer in soundproofing systems of "floating" floors, as well as to reduce the transmission of "horizontal" noise from one room to another along the floor screed.

17 mm joint thickness

150 x 1200 mm joint dimensions

2 pcs. quantity per package

0,9 kg package weight

FEATURES

- Easy to install, does not require sealant or glue for installation, does not require removal after the screed has dried
- Increased vibration insulating properties due to the Vibrostack-M liner on both sides
- Optimal size, minimal waste after trimming
- High acoustic efficiency compared to standard expansion joints

COMPOSITION

The **ULTRAKUSTIK** acoustic joint is made of acoustic felt based on high-density polyester fiber, coated on both sides with a special Vibrostack-M 150 vibration insulating tape.

INSTALLATION

Before laying soundproofing materials, the **ULTRAKUSTIK** acoustic joint is installed on the floor slab using construction corners (2 pieces per acoustic joint).

In case of application of:

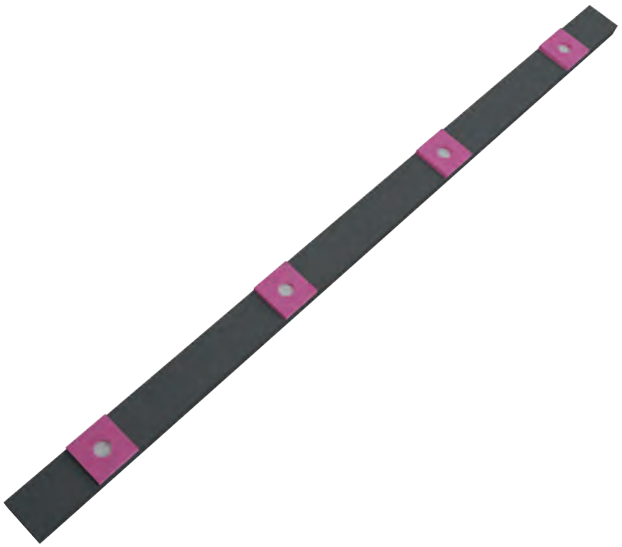
1. Slab materials, Shumoplast coating or Akuflex soundproofing underlay, reinforced film is applied to the **ULTRAKUSTIK** acoustic joint before pouring the floor screed.
2. Roll materials (Akuflex-Super, Shumanet-100Hydro, Shumanet-100Combi) are brought to the height of the ULTRAKUSTIK acoustic joint.
3. After the screed has gained strength, the joint is trimmed and filled with sealant.

Product details

ULTRAKUSTIK®-**VIBROPROFIL**

Vibration insulating section
for additional soundproofing

ULTRAKUSTIK-VIBROPROFIL is an ultra-thin vibration section with a thickness of 24 mm. It is an alternative to a metal frame when installing suspended ceilings and wall lining based on gypsum boards. Designed specifically for fine soundproofing of rooms where it is important to preserve every centimeter of usable space.



APPLICATION

Soundproofing systems using **ULTRAKUSTIK-VIBROPROFIL** cope with protection from everyday noise (neighbors talking, dogs barking, sound of TV and radio receivers, telephone conversations, noise from office equipment) similar to the ZIPS Vector panel system.

ΔR_w 2** dB — specific soundproofing of material

24 mm — section thickness

1000 × 50 mm — section dimensions

3 pcs. — quantity per package

1,9 kg — package weight

FEATURES

- Can be used together with other soundproofing accessories in the ULTRAKUSTIK line, or as a stand-alone element
- The thickness of the system with sheathing sheets is 49 mm or more
- VIBRID® vibration insulating joints production technology patented in the Russian Federation and the CIS
- Vibration insulating supports made of Sylodyn elastomer, with improved dynamic properties
- Unlike metal frames, it does not have such a property as "reverberation", due to its composition

COMPOSITION

ULTRAKUSTIK-VIBROPROFIL is made of laminated plywood covered with a special Vibronet vibration-damping mastic. The section contains four VIBRID® vibration insulating fastening joints, as well as Sylodyn elastomer supports with improved dynamic properties, by means of which fastening and adjoining to the insulated surface is carried out.

INSTALLATION

ULTRAKUSTIK-VIBROPROFIL is mounted with a pitch of 600 mm along the wall or ceiling.

The section connection along the perimeter must be carried out through **ULTRAKUSTIK-TAPE F100** vibration insulating liner. The space between the sections must be filled with sound-absorbing boards with a density of 30 to 90 kg/m3 and a thickness of no more than 20 mm, for example, Shumostop-S2 boards. The section is sheathed with 12.5 mm gypsum boards. The higher the density and mass of the sheathing layer, the higher the acoustic efficiency.

After installation is complete, the protruding part of the **ULTRAKUSTIK-TAPE F100** tape is trimmed along the entire perimeter and the joint is sealed with **ULTRAKUSTIK** or Vibroseal vibroacoustic sealant. More detailed installation

instructions are provided on the acoustic.ru website in the"Knowledge Base" section.

Product details

AIR-BORNE SOUND INSULATION

ΔR_w = 12 dB* (+2 dB)** ,

where * - index of additional soundproofing of the entire structure (Brick wall 120 mm + ULTRAKUSTIK F100 tape + ULTRAKUSTIK-Vibroprofil + 1 layer of Shumostop-S2 cotton wool + 12.5 mm gypsum board + 3.7 mm ULTRAKUSTIK membrane + 12.5 mm gypsum board + ULTRAKUSTIK sealant).

** - specific soundproofing efficiency of the material as part of the structure in the ULTRAKUSTIK soundproofing accessory system.

MEMBRANE ULTRAKUSTIK®

Soundproofing elastomer with adhesive layer

ULTRAKUSTIK MEMBRANE is a material developed specifically for thin and effective soundproofing of rooms. With a thickness of only 3.7 mm and a density of 2000 kg/m3, the **ULTRAKUSTIK** membrane significantly increases the weight of the gypsum board lining, thereby increasing the overall soundproofing performance of the entire structure.

APPLICATION

Can be used together with other soundproofing accessories in the **ULTRAKUSTIK** line, or as a stand-alone element. The membrane is universal and can be used for soundproofing both residential and public spaces

ΔR_w 2 dB — specific soundproofing of material

3,7 mm — material thickness

1,2 m — material width

2,5 m — roll length

3 m² — quantity per package

26 kg — package weight

FEATURES

- Safe for humans. Odorless and does not contain harmful impurities
- Does not lose its properties throughout the entire service life due to its unique composition
- Easy and convenient installation due to the adhesive layer

COMPOSITION

Rubber-based soundproofing material of high density.

Product details

INSTALLATION

ULTRAKUSTIK MEMBRANE is fixed between the gypsum boards (in case of using two layers for frame sheathing), or from the back side (if using only one sheathing board). To fix the membrane, an adhesive layer is applied to one side of the membrane during production.

If a membrane without an adhesive layer is used, fixation must be done using a staple gun with a pitch of 15-30 cm. If a gypsum board with a length below 2.5 m is used, excess membrane shall be trimmed to the required size on site.

For more detailed installation instructions, see www.acoustic.ru

AIR-BORNE SOUND INSULATION

ΔR_w = 12 dB* (+2 dB)** ,
where * - index of additional soundproofing of the entire structure (Brick wall 120 mm + ULTRAKUSTIK F100 tape + ULTRAKUSTIK-Vibroprofil + 1 layer of Shumostop-S2 cotton wool + 12.5 mm gypsum board + 3.7 mm ULTRAKUSTIK membrane + 12.5 mm gypsum board + ULTRAKUSTIK sealant).

** - specific soundproofing efficiency of the material as part of the structure in the ULTRAKUSTIK soundproofing accessory system.

GLUE ULTRAKUSTIK®

Universal glue for soundproofing and sound-absorbing materials

ULTRAKUSTIK glue is a universal synthetic glue designed for fast and strong gluing of materials with a porous or fibrous structure (mineral boards, non-woven fabric, felt, foam rubber) to most types of surfaces: concrete, moisture-resistant gypsum plasterboard, gypsum board, metal, wood, brick. Has excellent adhesion.

APPLICATION

ULTRAKUSTIK glue is used as a binding material for attaching soundproofing and sound-absorbing materials to the original surface.

8 кг package weight

10 л package volume

FEATURES

- High adhesion to various surfaces
- High-strength adhesive bond
- Forms an elastic adhesive joint
- Does not exert any deformation effects on the materials being bonded
- Frost-resistant (transportation at sub-zero temperatures is allowed)

COMPOSITION

The **ULTRAKUSTIK** glue is a solution of SBS rubbers and resins of natural origin in a mixture of organic solvents.

INSTALLATION

The surfaces to be bonded must be dry and free from dust.

When using, the temperature of the glue and the surfaces/ materials to be bonded should be from +15 °C to +25 °C. At higher temperatures, the open time of the **ULTRAKUSTIK** glue decreases.

The **ULTRAKUSTIK** glue is applied to the surface using a spray gun with a nozzle diameter of 1.8-2.5 mm at an air pressure of 6 atm or a roller/brush.
It is possible to apply **ULTRAKUSTIK** glue on both sides.

Next, it is necessary to let the glue dry a little (no more than 2-3 minutes), after which connect and press the bonded surfaces.
Initial glue setting time is 1 minute. Complete drying is within 24 hours.

SPECIFICATIONS

Color	amber/red
Viscosity (Brookfield S3, R2/20 rpm, at 20 °C)	700±200 mPa·s
Density (at 20 °C)	0,8-0,9 g/cm^3 °C
Dry residue	50±5%
Open time	3-10 min
Setting time	50-70 s
Final cure time	24 h
Spray application consumption	45-75 g/m^2
Roller or brush application consumption	150-250 g/m^2
Guaranteed shelf life	6 months

Product details

ULTRAKUSTIK® **SELF-TAPPING SCREWS**

Self-tapping screw XTN 3.9x41

Self-tapping screws XTN 3.9x41 are used to fix gypsum boards in soundproofing structures and ensure reliable installation. The reverse thread near the head helps to carefully and without "tearing" the cardboard sink the self-tapping screw into the gypsum board, and the sharp tip allows to install the self-tapping screw without pre-drilling.

APPLICATION

ULTRAKUSTIK self-tapping screw XTN 3.9x41 is designed for fastening AKU-LINE gypsum boards and other high-density gypsum boards in soundproofing structures.

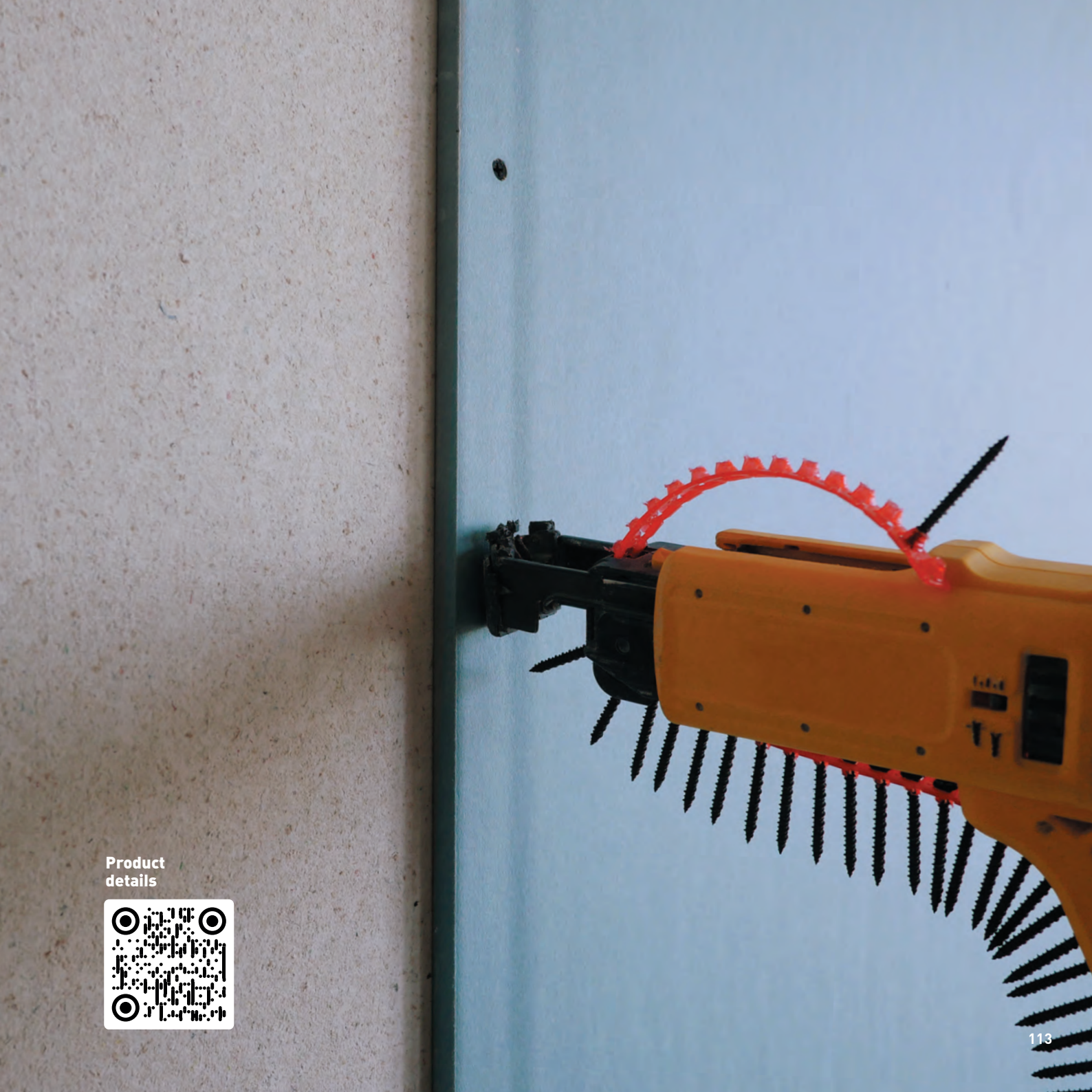
500 pcs. package volume

FEATURES

- Suitable for high-density gypsum boards
- Used in the installation of soundproofing structures
- Reverse thread does not "tear" the cardboard when screwing
- No pre-drilling required

COMPOSITION

Carbon steel.



Product details

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