



# PHILOSOPHY OF SILENCE

 **TECHNO  
SONUS**  
architectural and building acoustics

[www.tn-ss.ru](http://www.tn-ss.ru)  
8 800 775 40 66

# COMPANY

# TECHNOSONUS

**Since 2007 "TechnoSonus" company group has been manufacturing materials for sound insulation systems. Throughout Russia we have several factories equipped with modern production lines.**

We create effective solutions to any kind of acoustic challenges in architecture and construction. The company group has quickly become the leader of soundproofing, acoustics and vibration insulation materials market.

We are proud of our factories, which give us a unique opportunity to create new materials alongside with brilliant scientists from NIISF RAASN (the Research Institute of Building Physics). We hold 34 patent certificates in Russian Federation and many official trademarks.

**Hi-tech production in Vladimir Region with more than 6000 m<sup>2</sup> in total area.**

We value our employees, true masters of their field, and our partners, well-known companies such as TEXSA, AMC, BASF.

We develop acoustic design in Russia and we share our expertise by providing trainings for construction companies, architectural bureaus, design studios and regional dealers. In accordance to our extensive scientific and production experience, we meticulously control our service quality, we constantly expand our product line and we continue our research for new acoustics and buildings solutions.

- Manufacture of a wide product line for soundproofing building envelopes: floors, walls, ceilings and partitions. Among our materials you can find well-known and trustworthy trademarks such as: TermoZvukolzol, Sonoplat, Zvukoizol, Stopzvuk, Sonokrep. We also use B1 hard to ignite components, which allows us to increase sound insulation with high standards to fire safety.

- Production of acoustic panels for movie theatres and other specialty properties, production of figures in any size from acoustics materials with painting/pasting with glass canvas or draping with inflammable fabric. All acoustic materials have high fire safety standards, at least B1 classification (hard to ignite).

TechnoSonus company has its own installation department, our experienced team mounts the products after delivery. They have high qualification and all necessary information on our materials and its properties.

Installation by production company guarantees:

- high quality of mounting procedure
- correct implementation of materials for best results
- strict compliance with mounting technologies.

Our installation department allows us to complete full cycle of renovation and construction work.

**sound insulation**  
**vibration insulation**  
**acoustic design**  
**engineering consulting**

## **MATERIALS FOR SOUND INSULATION**

Tecsound  
Sonoplat  
Sonoplat Kombi  
TermoZvukolzol  
StopZvuk BP  
StopZvuk Eco  
Zvukoizol | StopZvuk-M  
Zvukoizol VEM  
Vibroflor  
AcousticGips GKLZ

## **MATERIALS FOR VIBRATION INSULATION**

Sonokrep EP20 | EP30 | M6  
Sonokrep Protector  
Vibrofoam

## **DECORATIVE ACOUSTIC MATERIALS**

Belner  
Soundec  
Akustiline  
SAB Acoustic  
Acospray

## **SUPPLYING MATERIALS**

# MATERIALS FOR SOUND INSULATION



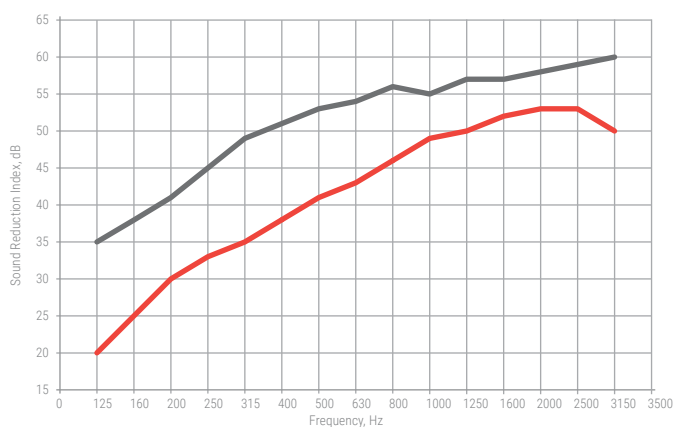


# TECSOUND



– sound insulation material world-wide known for its high quality and soundproofing properties. It is an ultra-thin membrane with high density, which provides maximum sound insulation even in a low frequency range.

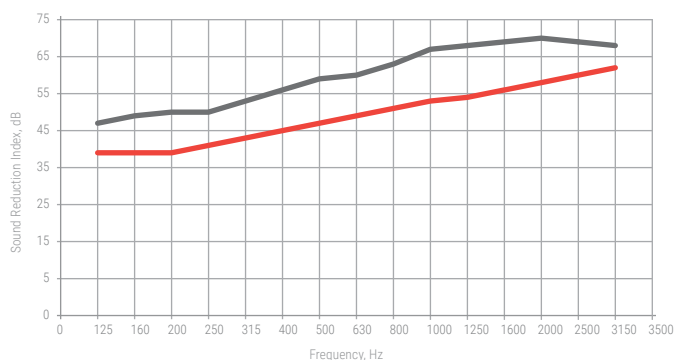
Index of airborne sound insulation for partition produced with Tecsound 70



— Reinforced concrete wall, width – 140 mm (calculated with СП 23-103-2003)

— Reinforced concrete wall with sound insulation system "Premium", total width – 211 mm, made with following materials: Tecsound FT 75, Stopzvuk Eco Slim, Tecsound 70, drywall.

Index of sound insulation for reinforced concrete wall with panels produced with Tecsound



— Reinforced concrete wall, width – 140 mm (calculated with СП 23-103-2003)

— Reinforced concrete wall with sound insulation system "Premium", total width – 211 mm, made with following materials: Tecsound FT 75, Stopzvuk Eco Slim, Tecsound 70, drywall.

## mineral soundproofing membrane



### Basic purpose

sound insulation of walls, ceilings, partitions, equipment.

### Features

universal usability.

### Composition

natural aragonite, polymers free of bitumen and hazardous impurities

Flammability rating - B1 (difficult to ignite).

### Building sites

- Sochi Media Menter
- State Tretyakov Gallery
- "Moscow-City" Business Center
- Radisson Hotel "Ukraine"
- "Skolkovo" Innovation Center
- Moscow State University MGU
- "Ren TV" Channel Studio Complex
- "Sheremetyevo" Cargo Terminal

- Tecsound 35, 50, 70
- Tecsound SY 35, SY 50, SY 70 (self-adhering)
- Tecsound FT 55, FT 75, 2 FT 80 (with felt)
- Tecsound SY 50 AL, FT 55 AL (with aluminum)
- Tecsound Band

# MATERIALS FOR SOUND INSULATION



Tecsound 70



Tecsound SY



Tecsound 2 FT 80



Tecsound FT 55 AL

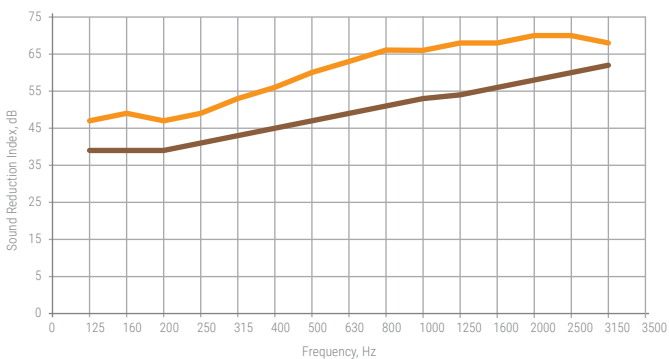
Characteristics	Tecsound 70 / SY 70	FT 75	2 FT 80
Airborne sound reduction index, Rw	28 dB	<28 dB	<28 dB
Increase of airborne sound reduction index	up to 18 dB		
Average sound absorbing rate of felt, NRC	-	0,33	
Thermal conductivity of felt, W/m°C	-	0,037	
Surface density of membrane, kg/m <sup>2</sup>	6,9		
Membrane density, kg/m <sup>3</sup>	1900		
Felt density, kg/m <sup>3</sup>	-	60	
Flammability rating	B1	B3	
<b>Specifications</b>			
Specs of material (length and width), mm	5000x1220	5500x1200	
Thickness of material, mm	3,7	14	24
Square size of material, m <sup>2</sup>	6,1	6,6	
Weight of material, kg	47	50	56

# SONOPLAT



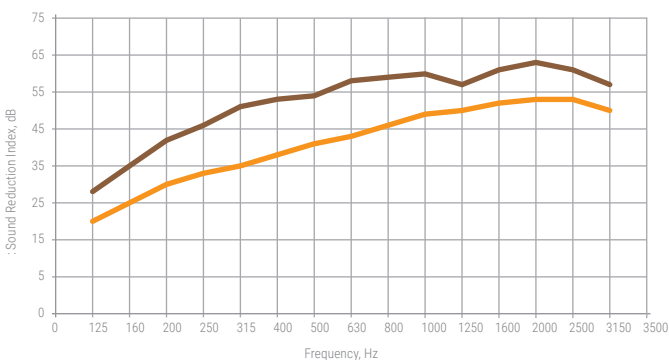
– line of soundproofing panels made from eco-friendly natural materials. This material is applied to different surfaces and types of frames , including wooden and metallic. Sonoplat is versatile in installation, maintenance and appliance, it is used for all types of lodging in both frame and frameless sound insulation systems.

Apparent Sound Reduction Index of reinforced concrete wall with panels produced with Sonoplat



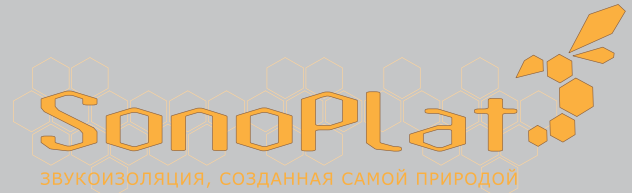
- Reinforced concrete wall, width - 140 mm (calculated with СП 23-103-2003)
- Reinforced concrete wall with sound insulation system "Premium", total width - 211 mm, made with following materials: Acoustiline Forte, Stopzvuk Eco Slim, Sonoplat, drywall

Apparent Sound Reduction Index of reinforced concrete wall with panels produced with Sonoplat



- Partition with 2 sheets of drywall on each side filled with sound absorbing material (partition width - 99 mm)
- Partition with 1 sheet of drywall and Sonoplat panel on each side filled with sound absorbing material (partition width - 99 mm)

## thin sound insulation panel



### Basic purpose

sound insulation of walls, ceilings, partitions, floors.

### Features

- universal appliance for floors, walls and ceilings
- the material can disperse sound waves and absorb residual sound energy
- saves space while soundproofing
- perfect replacement of floating floors
- best characteristics in comparison with analogues.

### Composition

multi-layered cellulose corrugated framework, fine quartz filler.

- **Sonoplat Standart**
- **Sonoplat Standart Plus**



# MATERIALS FOR SOUND INSULATION

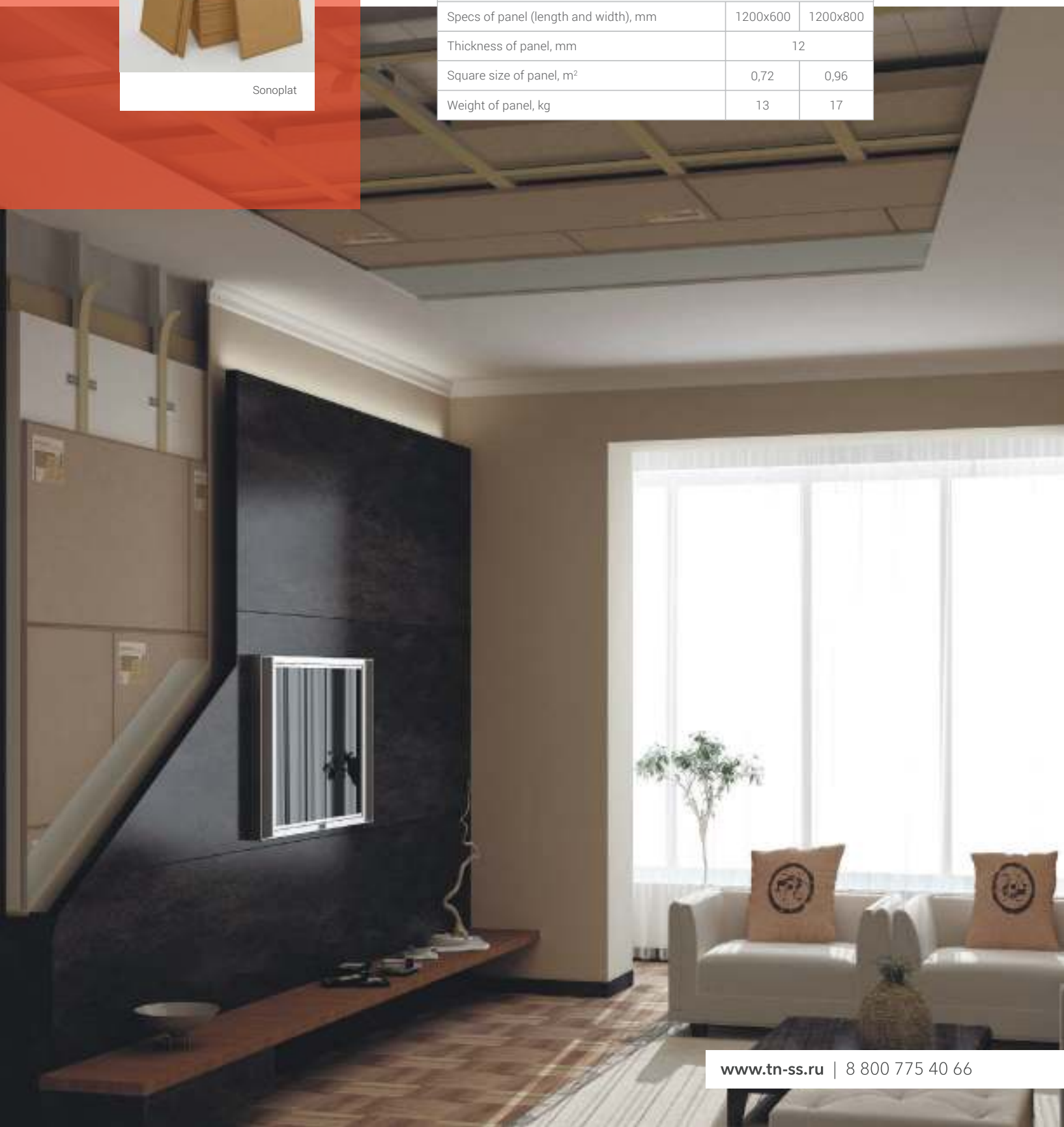


Sonoplat in section



Sonoplat

Characteristics	Standard	Standard +
Airborne sound reduction index, $R_w$	38 dB	
Index of improved impact sound reduction, $L_{nw}$	-	
Thermal conductivity of felt, $W/(m \cdot C)$	0,17	
Surface density, $kg / m^2$	18,8	
Static load, $t/ m^2$	< 65	
Specifications		
Specs of panel (length and width), mm	1200x600	1200x800
Thickness of panel, mm	12	
Square size of panel, $m^2$	0,72	0,96
Weight of panel, kg	13	17



# SONOPLAT COMBI

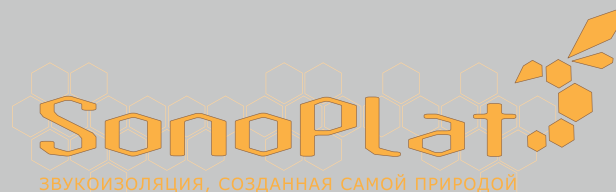


– combined soundproofing panel for thin frameless sound insulation systems. It has a light resilient substrate, which makes the panel mountable directly to straightened surface of a wall or partition.

## Composition

multi-layered cellulose corrugated framework, fine quartz filler, wood fiber substrate.

## thin sound insulation panel



## Basic purpose

sound insulation of walls, ceilings, floors.

## Features

- combined and universal
- eco-clean
- saves space while soundproofing
- quick in installation
- best acoustic characteristics.



• Sonoplast Combi

# MATERIALS FOR SOUND INSULATION



Sonoplat Combi



Sonoplat Combi

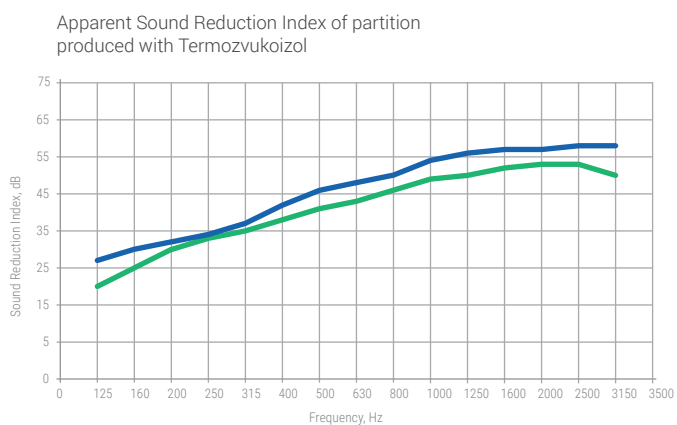
Characteristics	Combi
Airborne sound reduction index, $R_w$	42 dB
Index of improved impact sound reduction, $L_{nw}$	-
Thermal conductivity of felt, $W/(m \cdot C)$	0,17
Surface density, $kg / m^2$	18,8
Static load, $t/ m^2$	< 65
Specifications	
Specs of panel (length and width), mm	1200x600
Thickness of panel, mm	22
Square size of panel, $m^2$	0,72
Weight of panel, kg	15

# TERMOZVUKOIZOL

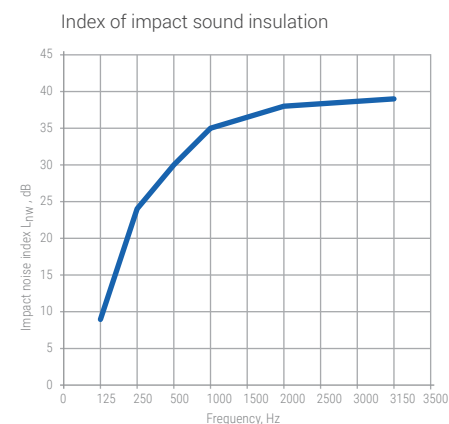
## Sound absorbing vibrodamping mat



– glass fiber canvas mechanically pressed and sealed in protective spunbond cover. Universal and multifunctional material with cushioning and sound absorbing effects.



- Partition with 2 sheets of drywall on each side filled with sound absorbing material (partition width – 99 mm)
- Partition with 2 sheets of drywall and Termozvukoizol layer on each side filled with sound absorbing material (partition width – 102 mm)



- Termozvukoizol material (underlayment 80 – 1000 kg/m<sup>2</sup>)



## ТермоЗвукоИзол®

### Basic purpose

- sound insulation under floor and walls underlayment
- sound insulation of walls and ceilings.

### Features

high-level performance for a low price

### Composition

needle-pierced Fiberglass (IPS-T), spunbond protective cover

**Flammability rating - B1 (difficult to ignite).**



- Termozvukoizol Standard
- Termozvukoizol Light
- Termozvukoizol Band



# MATERIALS FOR SOUND INSULATION



Termozvukoizol

Characteristics	TZI
Index of improved impact sound reduction, L <sub>nw</sub>	30 dB
Thermal conductivity of felt, W/(m·C)	0,0333
Surface density, kg / m <sup>2</sup>	1,46
Density, kg / m <sup>3</sup>	136
Resilience, J·m <sup>-3</sup>	600
Material recovery, %	90
U-value, W/m <sup>2</sup> K	3,97
Compression deformation, mm	2,3
Flammability rating	B1
Specifications	
Specs of material (length and width), mm	10000x1500
Thickness of material, mm	14
Square size of panel, m <sup>2</sup>	15
Weight of panel, kg	26



# STOPZVUK ECO



– heat and sound insulation plate made with polyester fiber. This fiber is hazard-free and does not produce irritating dust, it does not spoil and it does not mold.

## Basic purpose

sound insulation of walls, ceilings, partitions.

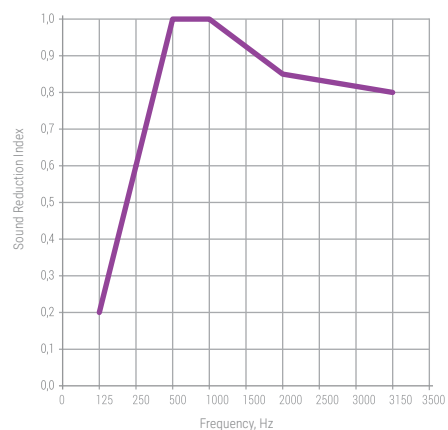
## Features

- hypoallergenic
- no phenols and formaldehydes in composition.

## Composition

polyester synthetic fiber.

Sound Reduction Index of Stopzvuk ECO



— Stopzvuk ECO 50 mm thick

## soundabsorbing plates made from polyester fiber

# СТОПЗВУК

ШУМОПОГЛОЩАЮЩИЕ ПЛИТЫ ИЗ ПОЛИЭФИРА

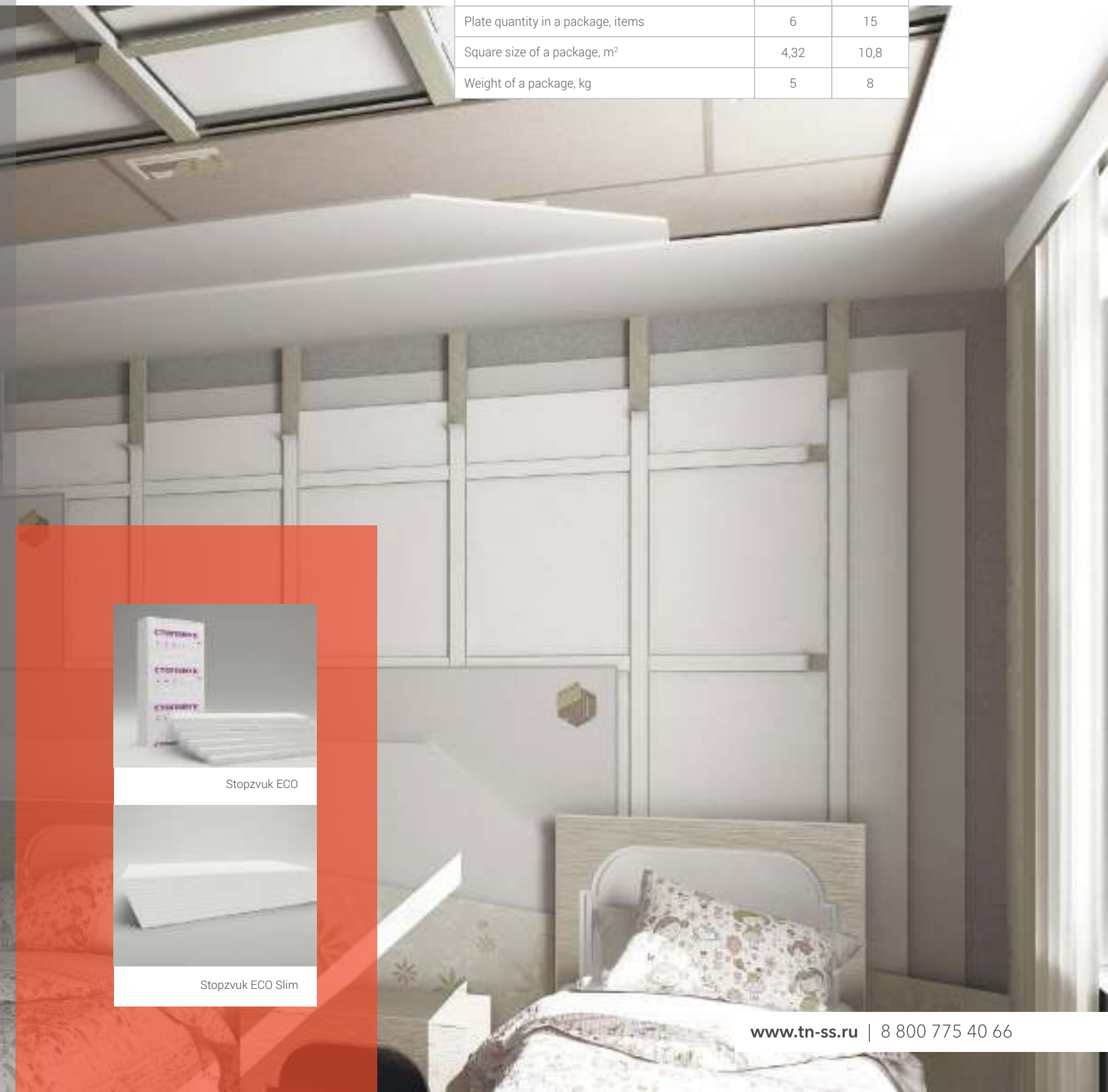
ЭКО





# MATERIALS FOR SOUND INSULATION

Characteristics	ECO	ECO Slim
Noise reduction coefficient, NRC	0,85	0,75
Density, kg/m <sup>3</sup>	18-21	40-42
Surface density, kg/m <sup>2</sup>	1000	800
Thermal conductivity of felt, W/(m·K)	0,035	
R-value, W/(m <sup>2</sup> C)	1,43	0,035
Specifications		
Specs of material (length and width), mm	1200x600	
Thickness of material, mm	50	20
Plate quantity in a package, items	6	15
Square size of a package, m <sup>2</sup>	4,32	10,8
Weight of a package, kg	5	8



Stopzvuk ECO



Stopzvuk ECO Slim

# bitumen polymer membrane

## ZVUKOIZOL



## ЗВУК<sup>И</sup>ЗОЛ

– rolled two-layered material made from bitumen polymer membrane and gas-foamed PE. It is installed under armed layers 4 cm thick. Zvukoizol creates a water-resistant layer and decreases impact sound levels.

### Basic purpose

sound insulation for underlayment.

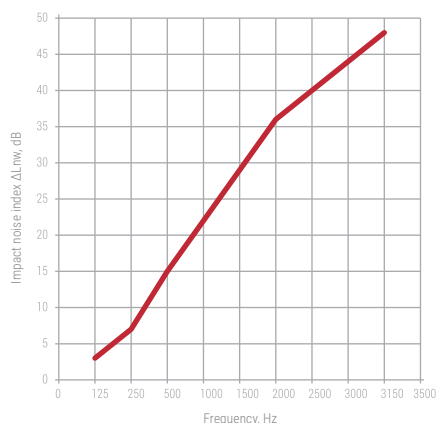
### Features

mostly used in floating floors systems as soundproofing and water-resistant material.

### Composition

modified bitumen polymer coating, gas-foamed PE covered in protective film.

Decrease of impact noise level



— Material Zvukoizol (underlayment 80-100 kg/m<sup>2</sup>)

## STOPZVUK-M

## СТОПЗВУК-М

ГИДРО- И ЗВУКОИЗОЛЯЦИОННАЯ МЕМБРАНА

– bitumen polymer membrane with a layer of polyether fiber. It is used in floating floors systems as soundproofing and water-resistant material.

### Basic purpose

sound insulation for underlayment

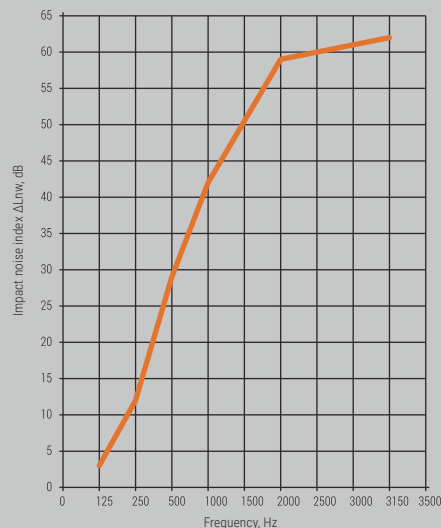
### Features

- increased unit weight improves soundproofing in all frequency ranges.
- mostly used in floating floors systems as soundproofing and water-resistant material.

### Composition

modified bitumen polymer coating, gas-foamed PE covered in protective film.

Decrease of impact noise level



— Material Stopzvuk-M (underlayment 80-100 kg/m<sup>2</sup>)

# MATERIALS FOR SOUND INSULATION



Zvukoizol



Stopzvuk-M

Characteristics	Zvukoizol	Stopzvuk-M
Index of improved impact sound reduction, L <sub>nw</sub>	23 dB*	26 dB
R-value, W/(m <sup>2</sup> ·K)	0,038	0,038
U-value, W/m <sup>2</sup> ·°C	8,5	8,5
Water absorbtion in 24 h	1	1
Water-resistance under compression of 0.2 mPa in 2 hours	in accordance	in accordance
Dynamic modul of resilience under compression of 0.2 mPa	0,7	0,7
Specifications		
Specs of material (length and width), mm	15000x1000	10000x1000
Thickness of material, mm	4,5	4
Square size of a package, m <sup>2</sup>	15	10
Weight of a package, kg	30	25
* underlayment thickness – 40 mm		



# ZVUKOIZOL VEM



– thin soundproofing membrane with high weight provides effective sound insulation without space loss. Membrane consists of complex polymer composition modified with mineral filling for higher resilience and durability. It is used in low-stories frame housing building and industrial properties.

## heavy soundproofing membrane

### ЗВУКІЗОЛ ВЭМ

#### Basic purpose

sound insulation for walls, ceilings, partitions, floors and equipment.

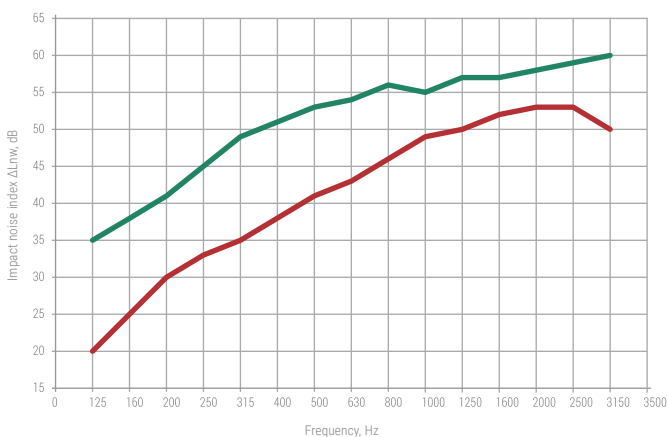
#### Features

suitable for all types of surfaces and spaces, including kitchens, bathrooms, swimming pools and industrial properties.

#### Composition

complex polymer composition modified with mineral fine sphere-structured filling - free of heavy metals, phenols, formaldehydes and poly-chlorides.

Airborne Sound Reduction Index of Zvukoizol VEM



— Partition with 2 sheets of drywall on each side filled with sound absorbing material

— Partition with 2 sheets of drywall on each side filled with sound absorbing material and Zvukoizol VEM

- Zvukoizol VEM 2 mm thick
- Zvukoizol VEM 4 mm thick
- Zvukoizol VEM self-adhering, 2 mm thick
- Zvukoizol VEM self-adhering, 4 mm thick

# MATERIALS FOR SOUND INSULATION



Zvukoizol VEM

Characteristics	VEM
Resistance Index, $R_w$	26 - 28 dB
Increased Resistance Index, $\Delta R_w$	up to 18 dB
Density, $\text{kg/m}^3$	1800
Surface density, $\text{kg/m}^2$	7,4
Expansion durability, $\text{H/cm}^2$	31
Compression durability, $\text{kg/cm}^2$	4,92
Expansion till reap, %	300
Resilience temperature, $^{\circ}\text{C}$	< -25
Specifications	
Specs of material (length and width), mm	2500x1200
Thickness of material, mm	4
Square size of a package, $\text{m}^2$	3
Weight of a package, kg	24





# VIBROFLOR



– consists of polyether fiber without modifications and it is free of any adhering additives. The material is safe for home usage. Vibroflor is applied for decreasing impact sound levels under plates and partition walls in houses and social buildings and as an underlayment for floors.

## Basic purpose

vibration and Sound insulation for floors (hardwood, parquet, laminate, etc).

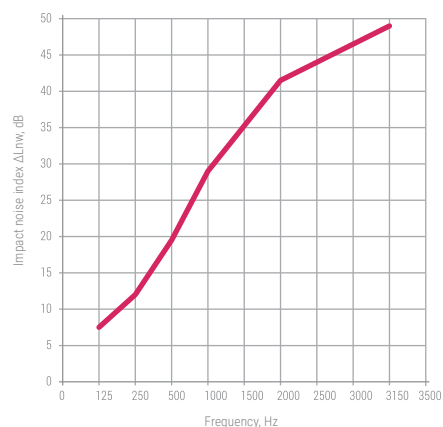
## Features

high performance for a low price.

## Composition

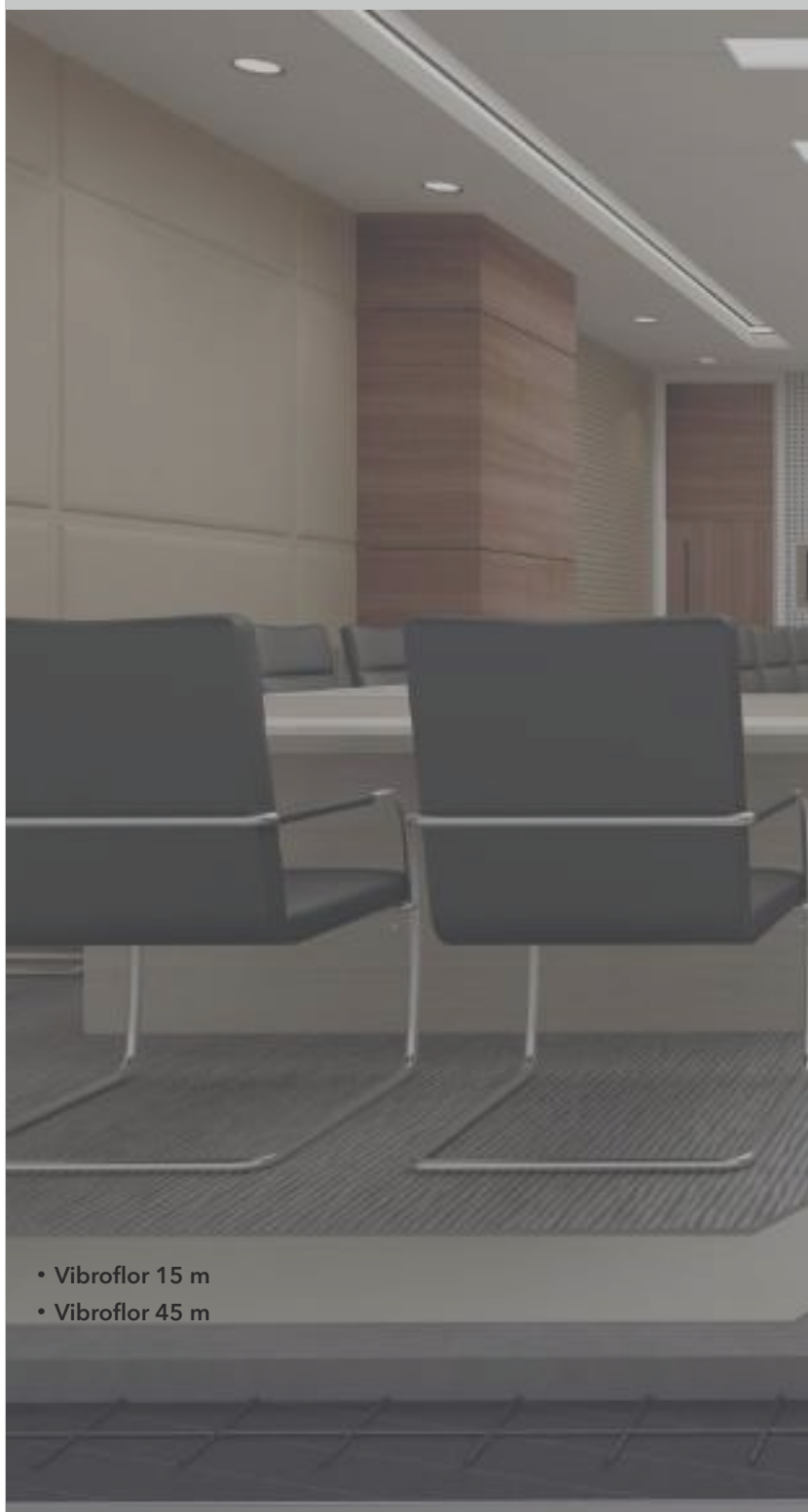
non-woven thin resilient fabric made of polyether unmodified fiber - free of adhesive components.

Decrease of impact noise level



— Vibroflor material underlayment 120 kg/m<sup>2</sup>

## thin polyether underlay



- Vibroflor 15 m
- Vibroflor 45 m

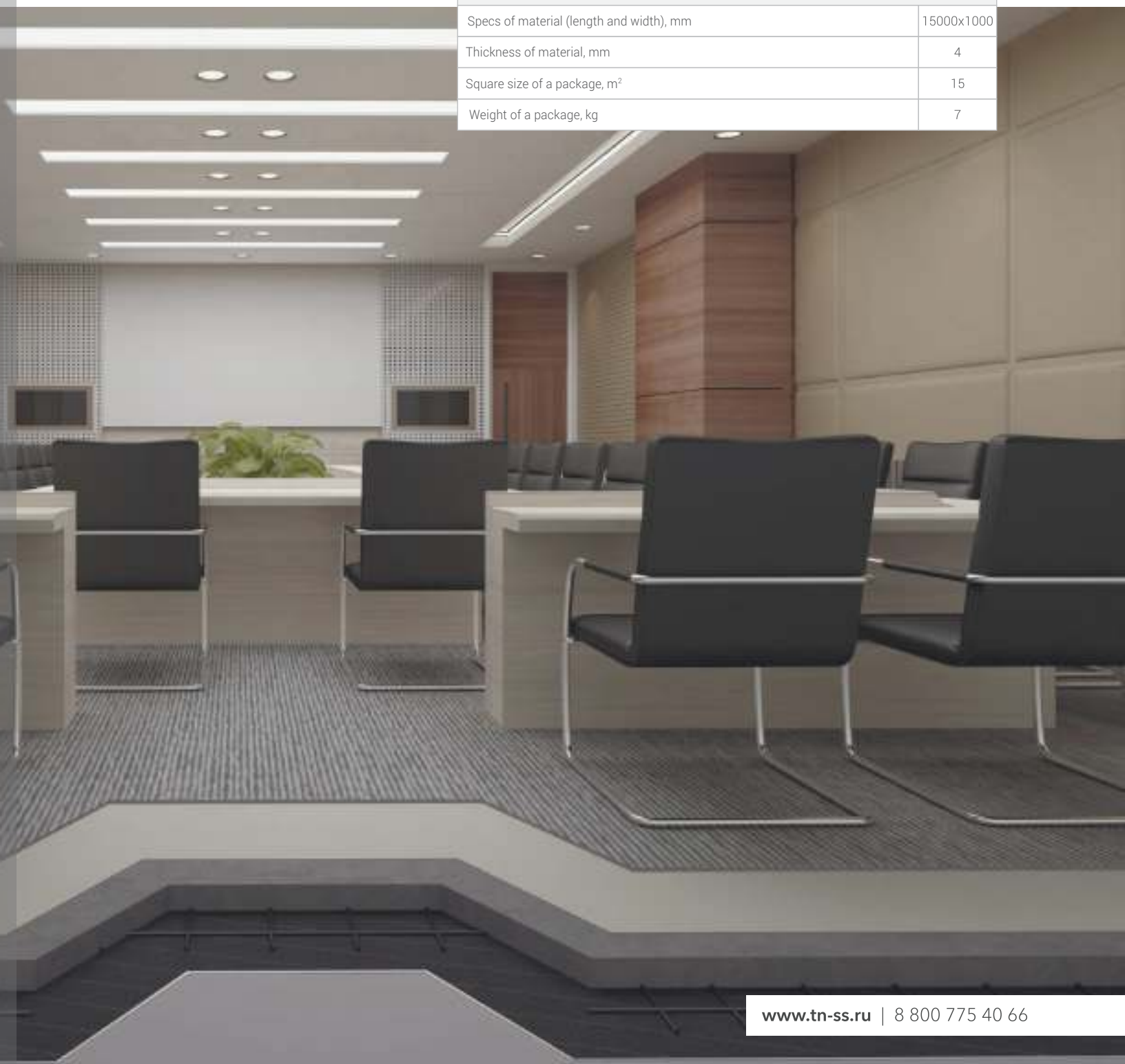


# MATERIALS FOR SOUND INSULATION



Vibroflor

Characteristics	Vibroflor
Increased Index of impact noise soundproofing	27 dB
Increased Index of impact noise soundproofing with floating floor (parquet 15 mm thick)	17 dB
Increased Index of impact noise soundproofing with floating floor (laminated 6 mm thick)	20 dB
U-value, W/m <sup>2</sup> K	0,036
Surface density, kg/m <sup>2</sup>	0,3
Breakage compression F0 (length & width), H	≥ 780
Specifications	
Specs of material (length and width), mm	15000x1000
Thickness of material, mm	4
Square size of a package, m <sup>2</sup>	15
Weight of a package, kg	7



# ACOUSTICGYPS gyps drywall sheet with extra density



– special arm-framed drywall sheet with extra density. It is an extra durable material with great soundproofing characteristics and increased fire-resistance.

## Basic purpose

any types of frameworks for walls, ceilings and partitions.

## Features

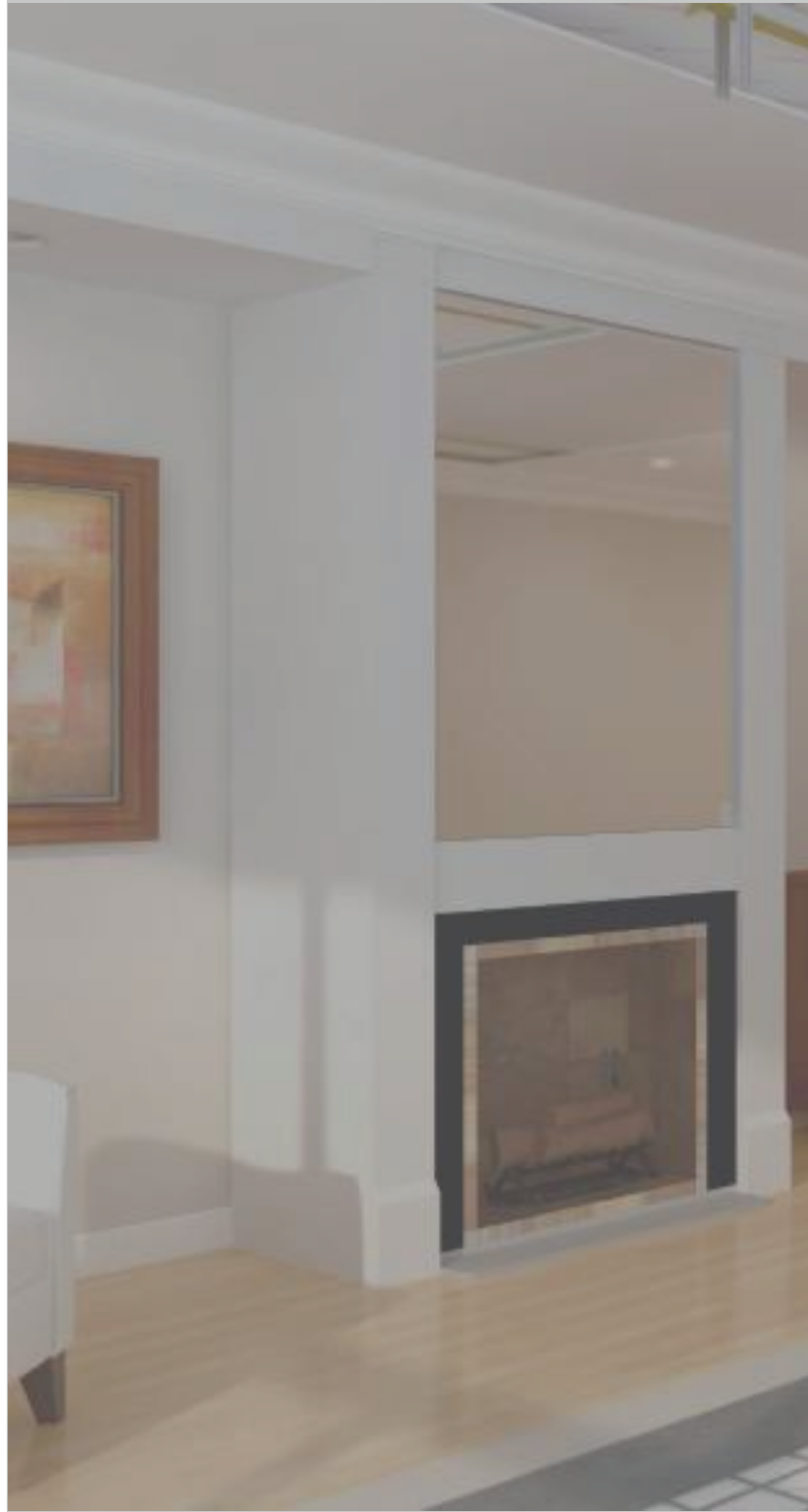
high soundproofing level along with low thickness.

## Composition

extra dense gyps, cardboard covering sheets, glassfiber.

**Flammability rating - B1 (difficult to ignite).**

# AcousticGyps

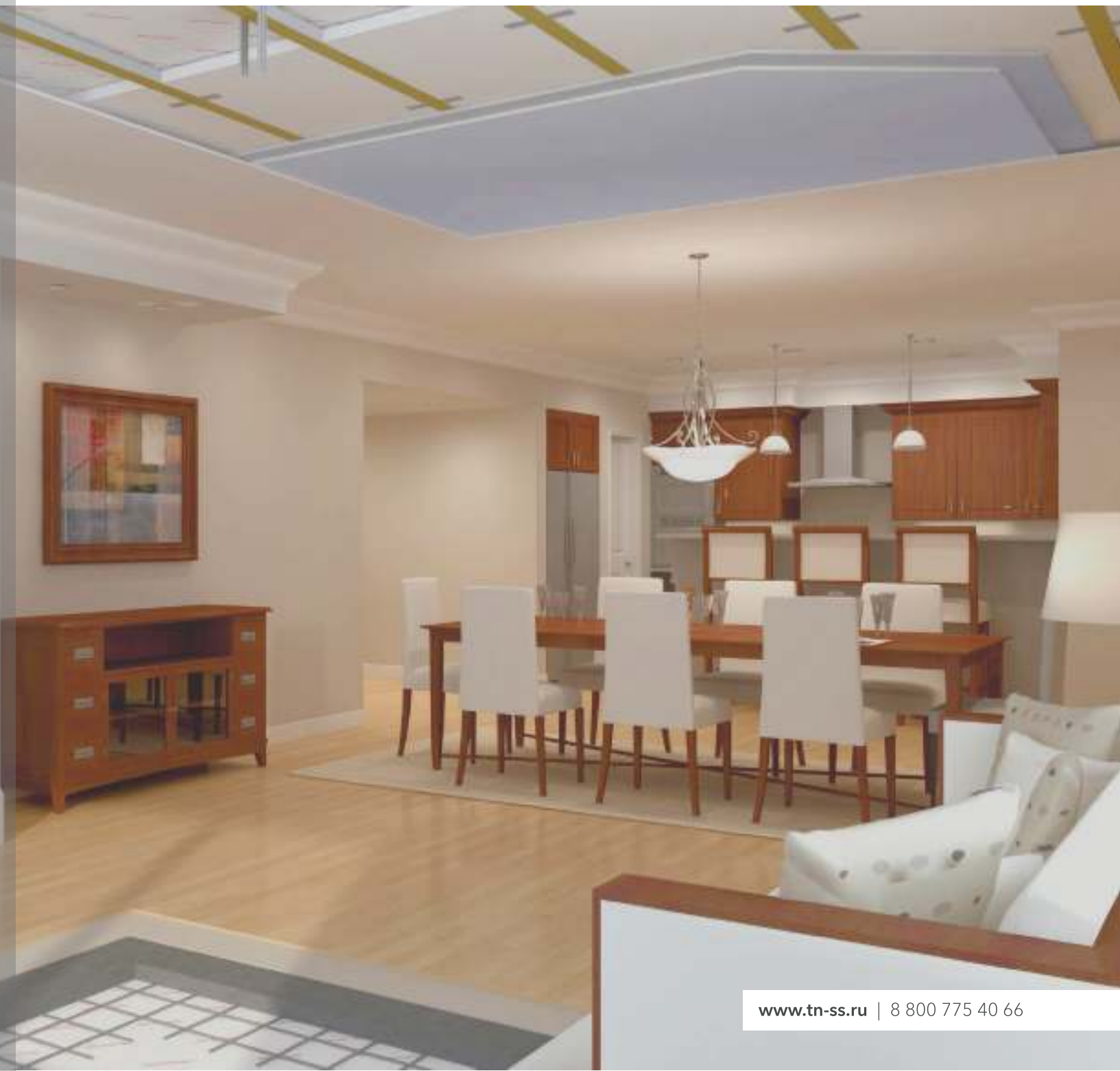


# MATERIALS FOR SOUND INSULATION



AcousticGyps drywall (GKLZ)

Premium-class material.  
Exceeds all analogues.  
Humid-resistant, soundproofing,  
fire-resistant, extra-durable.





# **MATERIALS FOR VIBRO INSULATION**



# vibro insulation mounts

## SONOKREP EP20|EP30

– anti-vibration mount for shock absorption in frameworks. Ideal for decreasing low frequency sounds and vibrations in suspended ceilings. Sonokrep EP keeps away impact and structural noises from floors above the ceiling.

### Basic purpose

framework ceilings, walls and any suspended constructions.

### Features

easy foolproof installation.

### Composition

PU elastomer, steel frame, standalone straight mount for metallic frame 27 x 60 mm.

## SONOKREP M6

## СОНОКРЕП

– professional and universal vibro insulation mount. It is used in complex suspended ceilings made with drywalls and can be adjusted in various ways, it is also a perfect mount for any kind of vibrating equipment or appliances (a/c, fans, etc).

### Basic purpose

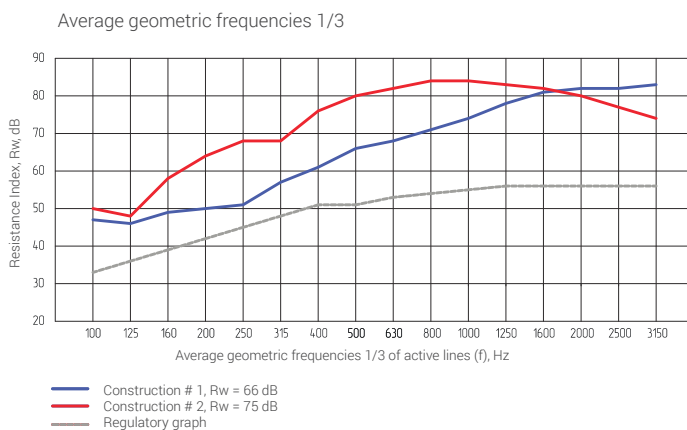
soundproofing ceilings, suspended engineering equipment, ventilation channels, engineering piping.

### Features

easy foolproof installation.

### Composition

PU elastomer, steel frame, standalone straight mount for metallic frame 27 x 60 mm.

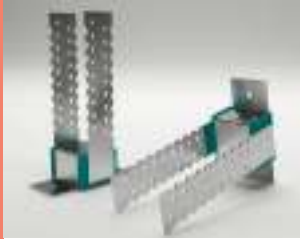




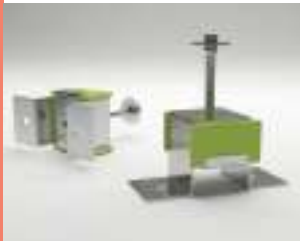
# MATERIALS FOR VIBRO INSULATION



Sonokrep EP20



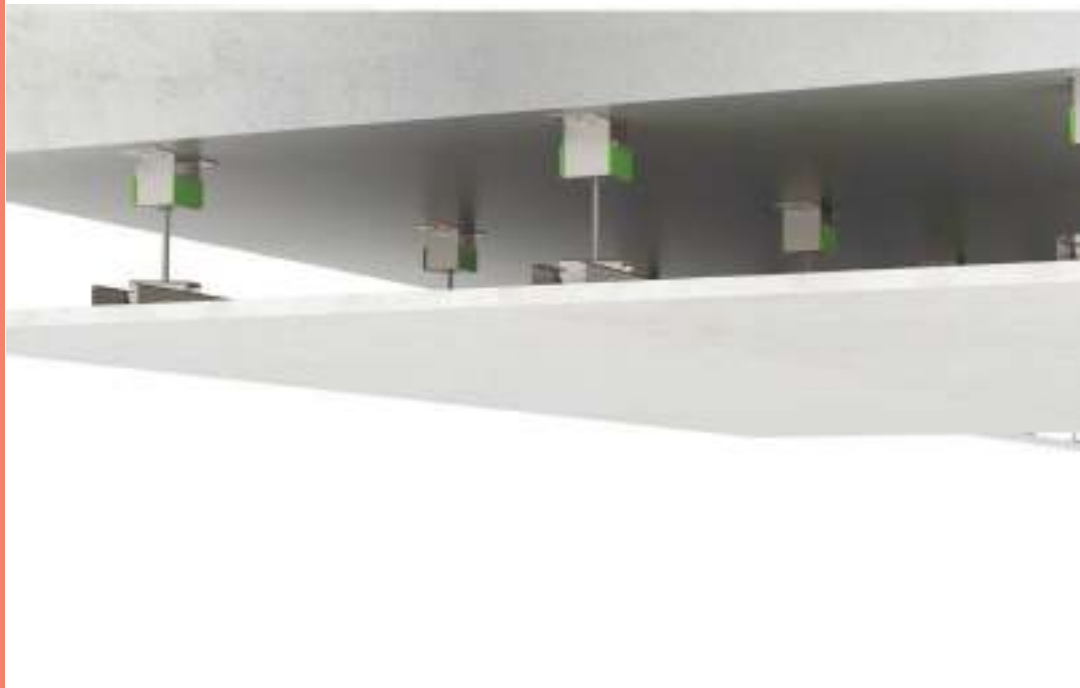
Sonokrep EP30



Sonokrep M6



Assembled Sonokrep M6



# VIBRAFOAM

– PU elastomer produced by KRAIBURG PuraSys GmbH & Co. KG (Germany). It is used as a resilient element for vibro insulation of engineering equipment, construction foundations, railways, in floating floors, etc. The material has been the market leader for the past 20+ years.

## Basic purpose

construction foundations, industrial equipment, railways, vibro insulation for floors.

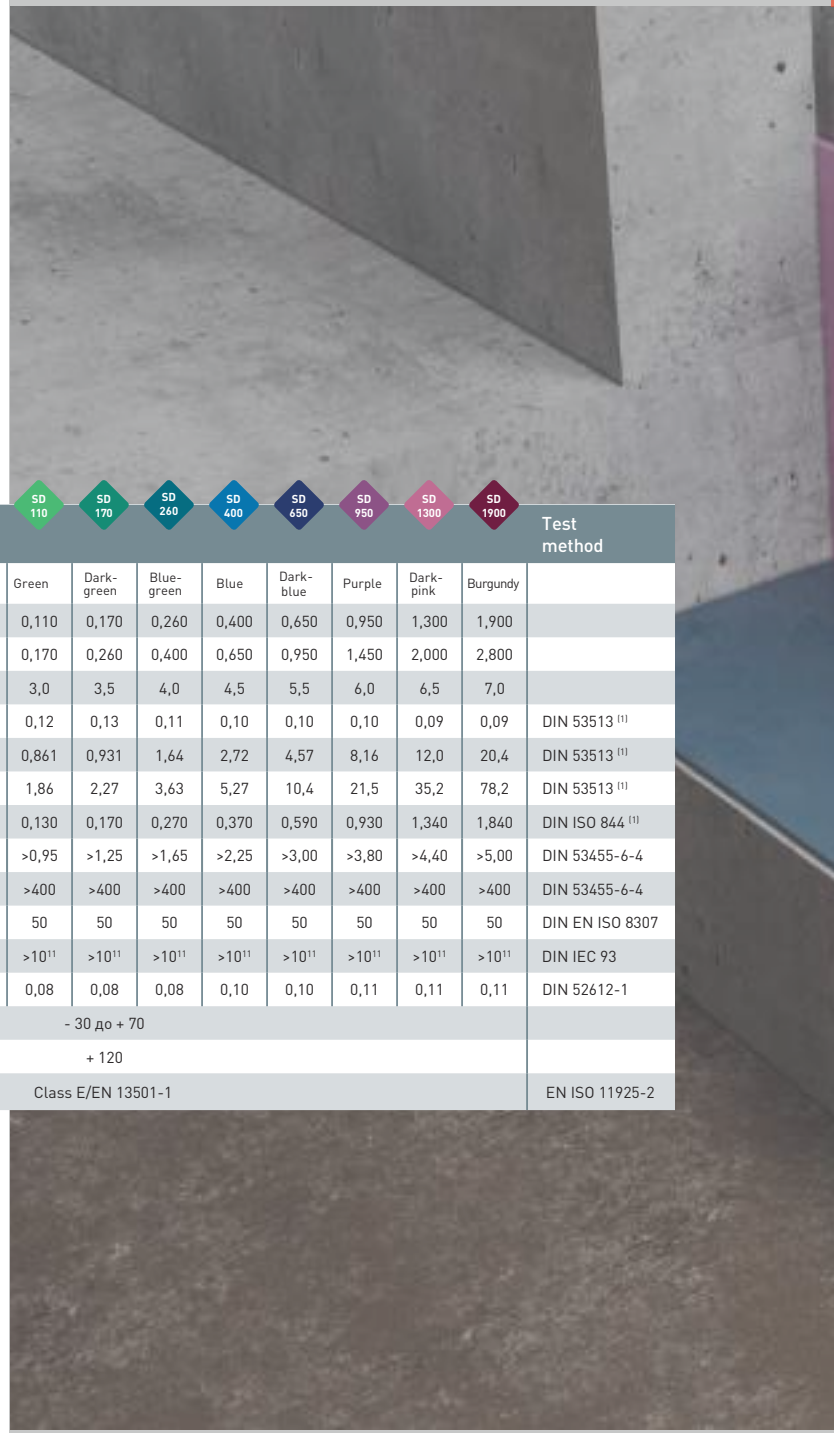
## Features

pointed, banded or full-surface bearings

## Composition

foamed PU with calculated compression.

# elastomer



Characteristics															Test method
	SD 10	SD 16	SD 26	SD 40	SD 65	SD 110	SD 170	SD 260	SD 400	SD 650	SD 950	SD 1300	SD 1900		
Color	Red	Pink	Orange	Yellow	Light-green	Green	Dark-green	Blue-green	Blue	Dark-blue	Purple	Dark-pink	Burgundy		
Static size of usage [H/mm <sup>2</sup> ] <sup>(2)</sup>	0,010	0,016	0,026	0,040	0,065	0,110	0,170	0,260	0,400	0,650	0,950	1,300	1,900		
Dynamic range [H/mm <sup>2</sup> ] <sup>(2)</sup>	0,016	0,026	0,040	0,065	0,110	0,170	0,260	0,400	0,650	0,950	1,450	2,000	2,800		
Peak pressure [H/mm <sup>2</sup> ] <sup>(2)</sup>	0,5	0,7	1,0	2,0	2,5	3,0	3,5	4,0	4,5	5,5	6,0	6,5	7,0		
Coefficient of mechanical dispersion <sup>(3)</sup>	0,25	0,24	0,22	0,15	0,18	0,12	0,13	0,11	0,10	0,10	0,10	0,09	0,09	DIN 53513 <sup>(1)</sup>	
Static resilient modulus [H/mm <sup>2</sup> ] <sup>(3)</sup>	0,048	0,111	0,129	0,316	0,453	0,861	0,931	1,64	2,72	4,57	8,16	12,0	20,4	DIN 53513 <sup>(1)</sup>	
Dynamic resilient modulus [H/mm <sup>2</sup> ] <sup>(3)</sup>	0,144	0,328	0,443	0,743	1,06	1,86	2,27	3,63	5,27	10,4	21,5	35,2	78,2	DIN 53513 <sup>(1)</sup>	
10% deformation hardness [H/mm <sup>2</sup> ]	0,011	0,018	0,026	0,046	0,073	0,130	0,170	0,270	0,370	0,590	0,930	1,340	1,840	DIN ISO 844 <sup>(1)</sup>	
Breaking strength [H/mm <sup>2</sup> ]	>0,35	>0,40	>0,45	>0,55	>0,70	>0,95	>1,25	>1,65	>2,25	>3,00	>3,80	>4,40	>5,00	DIN 53455-6-4	
Breaking extension [%]	>400	>400	>400	>400	>400	>400	>400	>400	>400	>400	>400	>400	>400	DIN 53455-6-4	
Bouncing resilience [%]	50	50	50	50	50	50	50	50	50	50	50	50	50	DIN EN ISO 8307	
Specific resistance [Ω·cm]	>10 <sup>12</sup>	>10 <sup>12</sup>	>10 <sup>11</sup>	>10 <sup>11</sup>	>10 <sup>11</sup>	>10 <sup>11</sup>	>10 <sup>11</sup>	>10 <sup>11</sup>	>10 <sup>11</sup>	>10 <sup>11</sup>	>10 <sup>11</sup>	>10 <sup>11</sup>	>10 <sup>11</sup>	DIN IEC 93	
Thermal conduction W/(m·K)	0,05	0,05	0,06	0,07	0,07	0,08	0,08	0,08	0,10	0,10	0,11	0,11	0,11	DIN 52612-1	
Temperature range [°C]	- 30 до + 70														
Peak temperature [°C]	+ 120														
Flammability rating	Class E/EN 13501-1													EN ISO 11925-2	

<sup>(1)</sup> measure procedure is up to standard

<sup>(2)</sup> form-factor q=3

<sup>(3)</sup> in accordance with highest settings

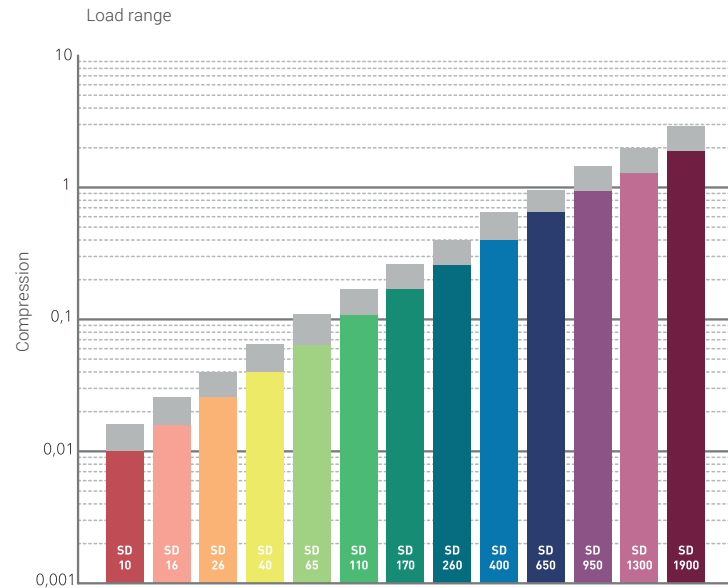
# MATERIALS FOR VIBRO INSULATION



Vibrafoam mats



Vibrafoam colors



- Vibrafoam SD 10
- Vibrafoam SD 16
- Vibrafoam SD 26
- Vibrafoam SD 40
- Vibrafoam SD 65
- Vibrafoam SD 110
- Vibrafoam SD 170
- Vibrafoam SD 260
- Vibrafoam SD 400
- Vibrafoam SD 650
- Vibrafoam SD 950
- Vibrafoam SD 1300
- Vibrafoam SD 1900



# DECORATIVE ACOUSTIC MATERIALS





# BELNER



CLASSIC  
ACOUSTIC  
DESIGN

– premium decorative acoustic panels made with MDF.

### Basic purpose

decorative panels with soundproofing properties.

## premium decorative acoustic panels



### Features

3 product lines: Classic, Acoustic, Design. Panels are applied to walls and ceilings. Products combine acoustic properties, beautiful design, fire safety standards, durability, water resistance and ecological standards. Depending on a design project panels can be veneered, painted, draped with fabric or covered with HPL-plastic.

### Composition

gyps chipped panel or MDF panel coated with veneer (natural/fine-line), HPL-plastic, paint (RAL/NCS) or inflammable fabric.

### Flammability rating - B1.



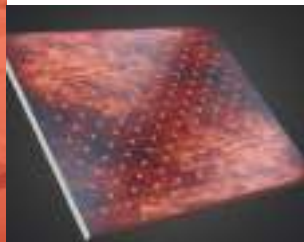


# DECORATIVE ACOUSTIC MATERIALS

**Thickness:** 12,5mm (+/-0,5mm)  
**Standard length:** 550, 1000, 1200, 1800, 2450 mm  
**Special length:** 350 - 2950 mm  
**Standard width:** 350, 550, 800, 1000 mm  
**Weight of standard panel:** 15,7kg/m<sup>2</sup>



Belner Classic



Belner Acoustic



Belner Design

# SOUNDEC



– decorative acoustic panels made with wood fiber mixed with cement adhesive, and applied on walls and ceilings for increased acoustic comfort. Thanks to their unique structure the panels can be used as a design element. The product is eco-friendly, waterproof, long-lasting and very effective for soundproofing. The panels can be produced in any form or shape and painted in any color from NCS & RAL catalogues.

## Basic purpose

acoustic improvement.

## Features

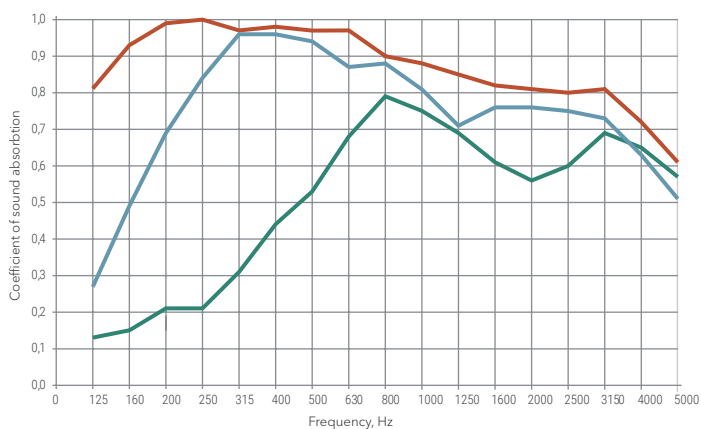
vandal-proof, design versatility.

## Composition

wood fiber and white cement.

## Flammability rating - B1.

Frequency characteristics of sound absorption of Soundec material



— Soundec 25 mm thick with 50 mm margin

— Soundec 25 mm thick + StopZvuk BP Standard with 50 mm margin

— Soundec 25 mm thick + StopZvuk BP Standard in 2 layers with 100 mm margin

## decorative acoustic panels

  
soundec

- Soundec 14 mm , fiber width 1 mm
- Soundec 25 mm , fiber width 1/1,5 mm





# DECORATIVE ACOUSTIC MATERIALS



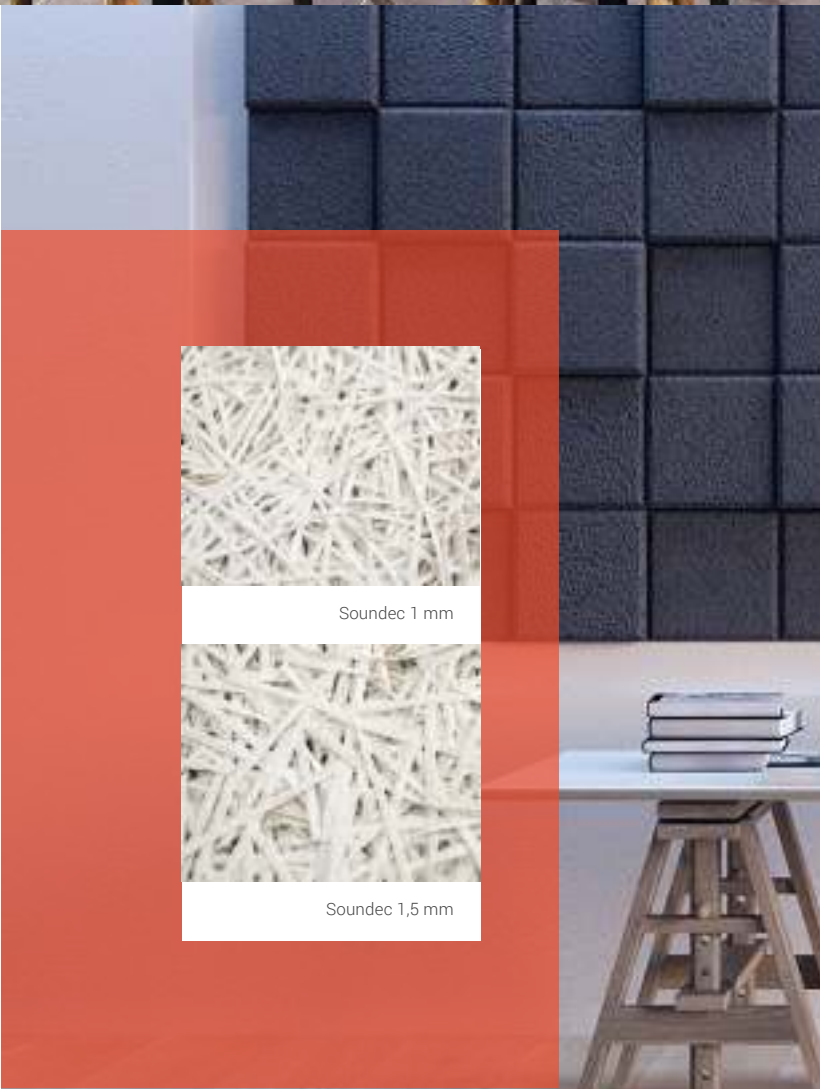
## Soundec Design Series

– special line of Soundec panels for custom-design.

Panels Soundec Design Series can be produced in many geometric shapes and in any size.

Special technology allows adding to the top layer of Soundec Design Series panel an aged look.

Painting top layer gives a sophisticated shine to the panel and makes it a perfect choice for stylish design.



Soundec 1 mm



Soundec 1,5 mm

## Soundec 3D Series

– special sculpture line of Spundec panels for art-objects.

Elements of interior designed combined into a beautiful acoustic art-object, which can be implemented in any color scheme.

Unlimited versatility provides the wow-effect to interior design, which can be warm and romantic or very clean and futuristic.

# AKUSTILINE



AMPIR  
DECOR

– acoustic wall and ceiling panels made with mineral wool for soundproofing. The panels are very versatile in design, durable, eco-friendly, fireproof, water and heat resistant and easy to install.

## Basic purpose

acoustic improvement in houses and public spaces such as movie theatres, hospitals, restaurants, nightclubs, conference rooms, etc.

## Features

high acoustic characteristics.  
The panels can be painted in any color from RAI catalogue.

## Composition

panel made from stone wool plated with glass canvas (Ampir) or glass papers (Décor) and painted with acoustic paint.

**Flammability rating - B1.**



Akustiline

## sound absorbing mats and plates

---AKUSTILINE---  
*Sound Insulation*





# AKUSTILINE



URBAN  
URBAN  
BUFFLE

– basalt fiber plates absorb wide range frequency noise. Perforated metallic shield protects panel from mechanical deformations. Custom-sized panels can be metal framed or suspended free (BUFFLE) and also painted in any color from RAL catalogue.

## Basic purpose

acoustic improvement in houses and public spaces such as movie theatres, hospitals, restaurants, nightclubs, conference rooms, etc.

## Features

high acoustic characteristics, durable, vandal proof.

## Composition

panel made from stone wool, glass fabric, perforated metal frame.

**Flammability rating - inflammable.**



Akustiline Urban

## sound absorbing mats and plates

---AKUSTILINE---  
*Sound Insulation*



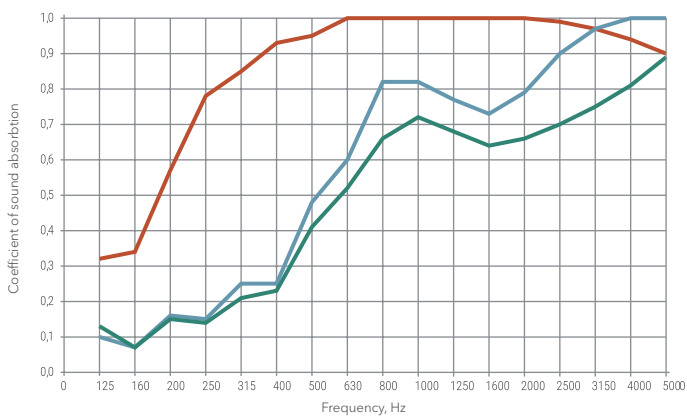


# ACOSPRAY



– seamless acoustic dusting made with cellulose by Acosorb company (the Netherlands). Even one-layer coat of 15 mm performs great at sound absorbing, which is the minimum thickness for an acoustic material. The product is very popular in Europe.

Frequency characteristics of sound absorption of Acospray material



— Acospray DC2 5 mm thick  
— Acospray DC3 10 mm thick  
— Acospray DC3 35 mm thick

## acoustic dusting

# acospray

### Basic purpose

can be applied to any surface besides wood and glass. Recommended for use in restaurants, fitness centers, public spaces.

### Features

can be applied to engineering communications. Fire standard - EI - 30.

### Composition

cellulose fiber, water-based polymers.

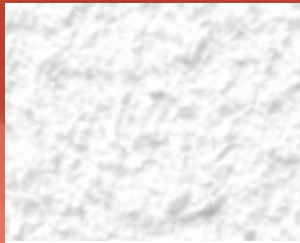
### Flammability rating - B1.

### Building sites

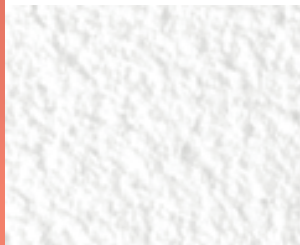
- Nike corporate office in Moscow
- Corporate office at Kalanchevskaya in Moscow
- Hotel restaurant in Shymkent
- Regional puppet theater in Archangelsk

- Acospray DC 3
- Acospray DC 2

# DECORATIVE ACOUSTIC MATERIALS



Acospray DC3



Acospray DC2



# SUPPLYING MATERIALS







## SONETIC



Sealant Sonetic

– vibro insulation sealant exclusively produced for TechnoSonus company in Germany. Used for filling and sealing seams, cracks, interfaces such as: sound insulation panels Sonoplat, sheets of drywall, GKL, GVL, SML, CSP, OSB, DSP. Can be applied to concrete, brick, plaster, glass, enamel, metal, ceramics, plastic, lacquered or painted wood.

## BAUTGER



Glue Bautger

– adhesive for fast and durable gluing dense heavy as well as soft porous construction materials (foam, extrusion, polypropylene, foamed PE, polyether wool, rubber membranes, bitumen, etc.), can be applied on one or both sides.

## TECSOUND BAND



6 m x 50 m x 2,6 mm

– band for vibro insulation of construction elements: frames, shields, mounts, etc.

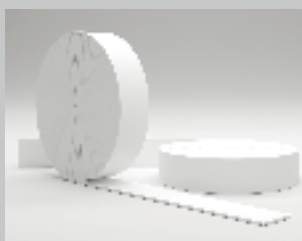
### **Purpose**

metal constructions, frames.

### **Composition**

natural mineral aragonite, polymers, self-adhesive layer, free of bitumen and hazard mixes.

## SEALING BAND



30 m x 50 mm x 2,5 mm

– band for decreasing vibration in metal frames in acoustic constructions.

### **Purpose**

metal constructions, frames.

### **Composition**

fine PPE.



## REINFORCED BAND



50 m x 50 mm

– self-adhesive elastic band reinforced with polyether net. It is extra adhesive, durable and waterproof and used in mounting soundproofing systems with TermoZvukolzol material.

### Purpose

gluing interfaces and cuts of TermoZvukolzol, sealing seams, pipes and panels.

### Composition

PE film, polyether net, self-adhesive layer.

## POLYMER NAIL - WALL PLUG



(6 mm x 70 mm) 100 PC.

– specially constructed nail-wall plug for Sonoplat sound insulation panels. It consists of only plastic, so it does not congests noise. Wall plugs are suitable for many panel materials such as: drywall, GKL, GVL, OSB, etc to materials like concrete, brick, foamed concrete, etc.

## ZVUKOIZOL BAND



15 m x 35 mm x 1,3 mm

– band for gluing all types of heat, sound and hydro insulation materials made with bitumen.

### Purpose

gluing interfaces of bitumen insulation materials, anti-corrosion insulation for metal pipes.

### Composition

bitumen polymer coating, protective film, self-adhesive layer.

## TERMOZVUKOIZOL BAND



5 m x 180 mm x 14 mm

– band for engineering communications insulation. It can be used in heating systems, water pipes, sewage pipes, a/c and ventilation systems.

### Purpose

for preventing structural noise and vibration in framework house building and floating floors.

### Composition

seamed glassfiber canvas, spunbond, two-sided band.

## FASTENERS



self-tapping screws and dowels

– for fixing sound insulation materials to different surfaces. All fasteners were carefully selected from best producers and tested by our specialists. Wide range of fasteners for all types of foundations.

## SUPPLYING ELEMENTS FOR INSTALLATIONS



metallic profile

– mounting sound insulation system requires all types of construction materials, such as drywalls, frames, adjusting nuts, etc. Our specialists have selected the best tool kit for creating effective and long-lasting sound insulation constructions.

## PLATE NAIL - WALL PLUG



(10 mm x 70 mm) 100 PC.

– plastic mushroom-like wall plug for mounting soft and hard soundproofing materials to concrete, brickwall, foamed concrete, etc.

## VIBRO WASHER



(14 mm x 5 mm) 50 PC.

– washer for insulation from structural noise in metal constructions. It can be used for metal and wooden frames.

# SIGNS LEGEND



**IMPACT SOUND**



**AIRBORNE SOUND**



**ECO-FRIENDLY**



**INFLAMMABLE**



**HEAT INSULATION**



**WATER INSULATION**



**AESTHETIC DESIGN**

## RUSSIA

### MOSCOW

47 A - 1, Bolshaya Ochakovskaya Ulitsa  
+7 (495) 787-56-10  
mail@tn-ss.ru

### SAINT-PETERSBURG

7, Konstituzii Ploshad, 5th floor, of. 540  
+7 (812) 603-70-74  
spb@tn-ss.ru

### NOVOSIBIRSK

35 - 3, building Sukharnaya Ulitsa, of. 188  
+7 (383) 235-97-97  
nsk@tn-ss.ru

### ROSTOV-ON-DON

46, Burovaya Ulitsa, of. 8  
+7 (863) 333-52-96  
rostov@tn-ss.ru

### UFA

148, Komsomolskaya Ulitsa, of. 3  
+7 (987) 254-22-28  
ufa@tn-ss.ru

### VLADIMIR

4, Lakina Ulitsa  
+7 (4922) 52-20-56  
info@tn-ss.ru

### KALUGA

328A, Moskovskaya Ulitsa  
+7 (4842) 27-86-65  
kaluga@tn-ss.ru

## KAZAKHSTAN

Almaty, Taugul 2, 37A, of 15  
+7 (727) 350-61-00  
info@tn-ss.kz

## BELARUS

Minsk, 65 B, Timirizeva Street, of. 204  
+375(44) 577-95-97  
minsk@tn-ss.ru

15.03.2018 v.4

**TECHNO  
SONUS**  
architectural and building acoustics

[www.tn-ss.ru](http://www.tn-ss.ru)

8 800 775 40 66

Products are presented in all regions of the Russian Federation