ProductCatalogue2018

THE PANELS OF SILENCE

SOUND INSULATORS

Special Plasterboards and Dry Construction Boards

Sound Insulation for Walling Partitions

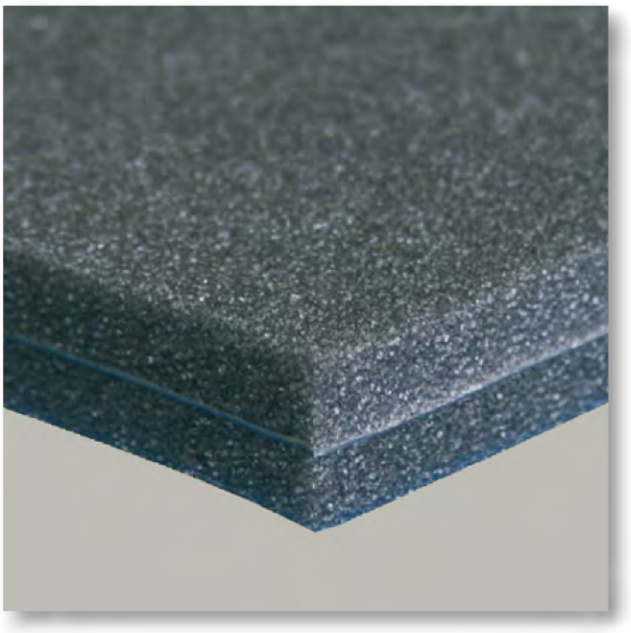
Lead and EPDM Insulation

SULATORS

LEAD AND EPDM INSULATION

AKUSTIK® - METAL SLIK ART. 1

POLYURETHANE FOAM SOUND-INSULATING PANEL WITH INTERMEDIATE LEAD SHEET LAYER



STANDARD DIMENSIONS

Panels: mm 1000 x 1000; mm 1000 x 3000

Thickness: mm 20 - 30 - 40. Other on request.

TECHNICAL CHARACTERISTICS

- **Polyurethane density:** 35 Kg/m^3
- **Lead thickness:** 0,35 / 0,50 mm
- **Sound insulation values:** Certified Rw = 29,0 dB
- **Reaction to fire:** polyurethane HF1 (to UL94)

COMPOSITION

Try-layer product composed by:

A Flat 10 , 20 or 30 mm thick polyurethane

B Lead 0,35, 0,50 mm

C Flat 10 , 20 or 30 mm thick polyurethane

MATERIAL

Combination of two layers of polyester-based polyurethane foam, density 35 Kg/m^3 separated by a lead sheet with 0,35/0,50 mm thickness to absorb medium and low frequencies. Resistant to temperatures from -10°C to +90°C.

FIELDS OF APPLICATION

Used for sound insulated walls where the reflecting power of lead needs to be combined with a certain absorption power of the polyurethane. Insulation of spaces, engine housings, partition walls, ceilings, machinery garages, compartment linings, etc. Whenever protection from external agents such as oil, grease, dust, and water is required, the panel can be supplied in versions with a protective film applied to the surface.

INSTALLATION

Using NDA KOLL adhesive on the flat and curved surfaces of any kind, provided they are free of dust, oil and grease. In the case of ceiling applications the use of special fixing devices is recommended. The product can also be supplied with self-adhesive surfaces to facilitate application.

The adhesivation of the product is not a definitive bonding and does not guarantee the seal, it simply facilitates the installation if supported by glue.

LEAD AND EPDM INSULATION

AKUSTIK® - METAL SLIK ART. 5

MATERIAL

Akustik® Metal slik Art. 5 is the combination one layer of polyester-based and expanded polyurethane foam and one layer of cross-linked polyethylene foam, separated by a 0,35-0,50 mm lead sheet, specific for the acoustic insulation of the pipes.

FIELDS OF APPLICATION

Thanks to its extreme flexibility and malleability, Akustik® Metal slik Art. 5 is specific for sound insulation of piping, ducts, engine rooms, machinery, conduits in general. Whenever protection from external agents such as oil, grease, dust and water is required, the panel can be supplied with a protective film applied to the surface.

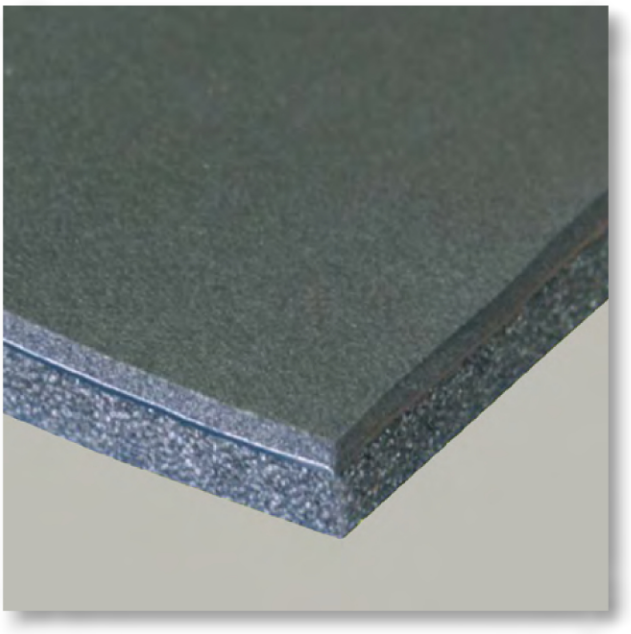
INSTALLATION

The product can be easily cut and shaped. For pipes insulations, place the polyurethane surface (the thicker one) on the pipe. If necessary, use adhesive NDA KOLL on flat or curved surfaces, provided they are free of dust, oil and grease. For ceiling or walls installation, we recommend the use of mechanical fixing.

The product can also be supplied with self-adhesive surface to facilitate application.

The adhesivation of the product is not a definitive bonding and does not guarantee the seal, it simply facilitates the installation if supported by glue.

THE SOUND-ABSORBING PANEL IN CROSS-LINKED POLYETHYLENE AND EXPANDED POLYURETHANE WITH INTERMEDIATE LEAD LAYER



STANDARD DIMENSIONS

Length: mm 2000**; Width:** mm 1000

Thickness: mm 13 (10+3); mm 23 (20+3)

Other dimensions on request

Dimensions tolerance: to M4 DIN 7715, Part 2.

TECHNICAL CHARACTERISTICS

- **Polyurethane density:** 35 Kg/m^3
- **Cross-linked polyethylene density:** 30 Kg/m^3
- **Lead thickness:** 0,35 / 0,50 mm
- **Sound insulation values:** Certified Rw = 27,0 dB
- **Reaction to fire:** euroclass E, E_{fl} to EN 13501-1: 2009

COMPOSITION

Try-layer product composed by:

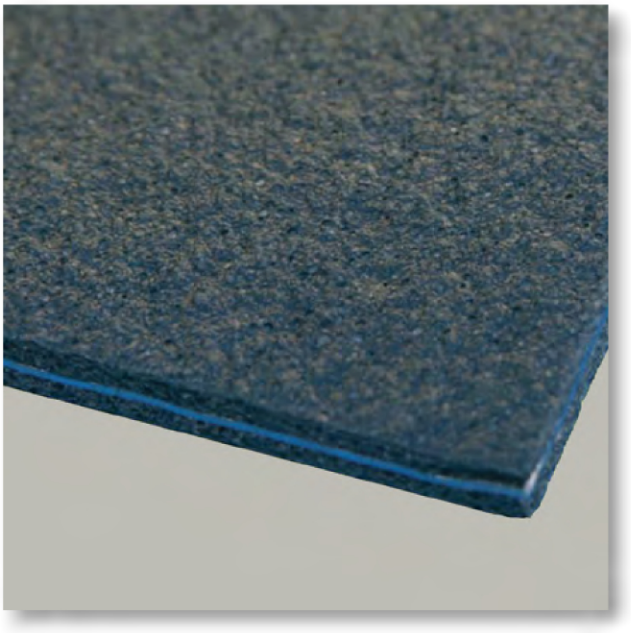
A Cross-linked polyethilene 3 mm

B Lead 0,35, 0,50 mm

C Flat polyurethane10, 20 mm

AKUSTIK® - METAL SLIK ART. 6

CROSS-LINKED POLYETHYLENE FOAM SOUND-INSULATING PANEL WITH INTERMEDIATE LEAD SHEET LAYER



STANDARD DIMENSIONS

Length: mm 3000; **Width:** mm 1000; **Thickness:** mm 6

Other thicknesses and formats available on request.

Dimensions tolerance: to M4 DIN 7715, Part 2.

TECHNICAL CHARACTERISTICS

- **Cross-linked polyethylene density:** 30 Kg/m^3
- **Lead thickness:** 0,35 / 0,50 mm
- **Sound insulation values:** Certified Rw = 27,5 dB
- **Reaction to fire:** cross-linked polyethylene euroclass F

COMPOSITION

Try-layer product composed by:

A Cross-linked polyethilene 3 mm

B Lead 0,35, 0,50 mm

C Cross-linked polyethilene 3 mm

MATERIAL

Combination of two layers of impermeable cross-linked polyethylene foam separated by a 0.35 - 0.50 mm thick lead sheet to absorb low and high frequencies.

FIELDS OF APPLICATION

Insulation of rooms, engine compartments, piping, floors, partition walls, machinery, conduits in general. Recommended in particular when water or oil particles, etc are present in the vicinity of the panel. Suitable for use as under flooring in civil constructions when it is desired to prevent sound entering or leaving a given environment. Whenever the technical specification calls for greater protection from external agents such as oil and grease etc., the product can be supplied with a protective film applied to the surface. The anti-vibration layers consist of highly flexible foam with high resistance to compression.

INSTALLATION

Use NDA KOLL glue on flat and curved surfaces of any kind (free of dust, oil and grease). The product can also be supplied with self-adhesive surface to facilitate application.The adhesivation of the product is not a definitive bonding and does not guarantee the seal, it simply facilitates the installation if supported by glue.

LEAD AND EPDM INSULATION

AKUSTIK® - GPB

MATERIAL

Akustik®-GPB is an high density mass, the result of a mix of inert plasticizer elastomerics (EPDM) whose granules are of variable dimensions; it doesn't contain either lead or bitumen, it is an non-toxic and odourless material. Resistant to high and low temperatures -30°C + 120°C.

FIELDS OF APPLICATION

Akustik®-GPB, thanks to his high density and his elasticity, is an excellent sound-insulating and antivibration material. It is largely used to build up barriers with a high sound insulation power and therefore, it is installed where screening or noise-abating systems are required: communicating rooms, flooring, ceilings, walls and industrial encapsulations. This product can be easily applied between two plasterboards to avoid vibrations and increase insulation.

INSTALLATION

Akustik®-GPB is supplied in rolls, its elasticity allows it to be cut and shaped very easily. It can be applied to any surface, provided that it is smooth and free of grease, oil or dust, using NDA KOLL glue. For ceiling installation, we recommend the use of mechanical fixing.

The product can also be supplied with self-adhesive surface to facilitate application.

The adhesivation of the product is not a definitive bonding and does not guarantee the seal, it simply facilitates the installation if supported by glue.

SOUND-INSULATING AND NOISE-ABATING PRODUCT MADE OF HIGH DENSITY EPDM

STANDARD DIMENSIONS

Width: 1000 or 1200 mm

Length: 25/30 m

Thickness: approx. 2 and 2,5 mm

TECHNICAL CHARACTERISTICS

- **Material:** Inert plasticizer elastomeric-based mix EPDM
- **Weight:** 4 and 5,5 Kg/m^2
- **Resistance to temperature:** - 20 + 120° C
- **Surface appearance:** smooth
- **Basic color:** black
- **Hardness:** 78 ± 5 Shore
- **Resistance to traction:** > 75 N/cm^2
- **Thickness allowance:** ± 10%
- **Reaction to fire:** B-s3, d0

LEAD AND EPDM INSULATION

AKUSTIK® - GUM SLIK ART. 1

MATERIAL

Akustik®-Gum Slik consists of a combination of two layers of polyester-based open-cell polyurethane foam, density 35 Kg/m^3, separated by special charged thermoplastic polymers (EPDM) from 4 to 5,5 Kg/ m^2. Resistant to temperatures from -10°C to +90°C. Product completely bitumen free.

FIELDS OF APPLICATION

Akustik®-Gum Slik is widely used for the sound insulation of fixed or moveable walls, ceilings, the walls of soundproofed machinery cabins, and in all other cases of noise shielding and reduction of noise between communicating environments. Whenever special protection from external agents is required the product can be supplied with a protective film applied to the surface.

INSTALLATION

The material is in sheets or rolls and can be cut and shaped very easily. It can be applied to any surface, even curved provided that it is smooth and free of dust, oil or grease using NDA KOLL glue. For ceiling installation, we recommend the use of mechanical fixing.

The product can also be supplied with self-adhesive surface to facilitate application.

The adhesivation of the product is not a definitive bonding and does not guarantee the seal, it simply facilitates the installation if supported by glue.

POLYURETHANE FOAM SOUND-INSULATING PANEL WITH INTERMEDIATE EPDM LAYER

STANDARD DIMENSIONS

Width: 1000 mm; **Length:** mm 1000 or 3000

Thickness: 20-25-30-40. Other dimensions on request.

TECHNICAL CHARACTERISTICS

- **Material:** open cell polyester-based polyurethane foam
- **Density:** 35 Kg/m^3
- **Thermal conductivity coefficient:** 0,029 W/mK
- **Resistance to temperature:** -10 +90°C
- **Surface appearance:** flat • **Basic color:** dark grey
- **Reaction to fire:** polyurethane HF1 (to UL94); EPDM B- s3, d0.

COMPOSITION

Try-layer product composed by:

A 10 mm th.polyurethane

B EPDM 4 or 5,5 Kg/m^2

C 10 mm th. polyurethane

LEAD AND EPDM INSULATION

AKUSTIK® - GUM SLIK ART. 5

CROSS-LINKED POLYETHYLENE FOAM
AND EXPANDED POLYURETHANE FOAM
WITH INTERMEDIATE EPDM LAYER

STANDARD DIMENSIONS

Width: 1000 mm; **Length:** 2000 mm

Thickness: mm 15 (10+2+3). Other dimensions on request.

Dimensions tolerance: to M4 DIN 7715, Part 2

TECHNICAL CHARACTERISTICS

- **Resistance to temperature:** from - 50 °C to + 110 °C
- **Color:** available with a protective black film
- **Theoretical sound insulation values:** Rw = 26,0 dB
- **Reaction to fire:** EPDM B-s3,d0, polyurethane HF1 (to UL94); polyethylene F

COMPOSITION

Try-layer product composed by:

A Flat polyethylene 3 mm

B EPDM 2 mm 4 Kg/m²

C Flat polyurethane from 10 mm

MATERIAL

Akustik® Gum Slik Art. 5 is a three-layer product realized with an expanded reticulated polyethylene with closed cell structure, thickness mm 3 (density 33 Kg/m³) and with a layer of polyester-based open cell polyurethane foam, thickness 10 mm (density 35 Kg/m³), separated by a layer of EPDM, thickness 2 mm and mass 4 Kg/m², for the isolation of low and medium frequencies. Product completely bitumen free.

FIELDS OF APPLICATION

Insulation of pipes, engine compartments, partitions, machinery, pipes in general. Where specific techniques require more protection from oil, grease, etc. the product can be supplied with a protective film.

INSTALLATION

The material can be cut and shaped very easily. In the isolation of the piping the polyurethane side (the thicker one) must be placed in contact with the tube, and then clamped. It can be applied with adhesive NDA KOLL on any kind of flat or curved surfaces, if they are free from dust, oils and fats. In case of application on ceiling and wall, we recommend the use of special fixing devices. The product can also be supplied with self-adhesive surface to facilitate application.

The adhesivation of the product is not a definitive bonding and does not guarantee the seal, it simply facilitates the installation if supported by glue.

AKUSTIK® - GUM SLIK ART. 6

MATERIAL

Akustik® Gum Slik Art. 6 is a three-layer product made with two layers of expanded reticulated polyethylene with closed cell structure, thickness mm 3 (density 33 Kg/m^3) separated by a layer of EPDM mass of 2 mm thickness and 4 Kg/m^2, for the isolation of the low and high frequencies. Product completely bitumen free.

FIELDS OF APPLICATION

Insulation of rooms, engines, pipes, floors, partitions, equipment, ducts in general. Particularly indicated in case of presence of particles of water, oil or grease in the vicinity of the panel itself. Suitable as material for civil subfloor, where it must prevent sound exiting or entering in a specific situation. Where it is required more protection from oils or fats, the product can be supplied with a protective film. The layers are made of an anti-vibration foam material with high flexibility and high resistance to compression.

INSTALLATION

It can be applied with adhesive NDA KOLL on any kind of flat or curved surfaces, if they are free from dust, oils and fats. In case of application on ceiling and wall, we recommend the use of special fixing devices. The product can also be supplied with self-adhesive surface to facilitate application.

The adhesivation of the product is not a definitive bonding and does not guarantee the seal, it simply facilitates the installation if supported by glue.

CROSS-LINKED POLYETHYLENE FOAM SOUND INSULATING PANEL WITH INTERMEDIATE MASS IN EPDM

STANDARD DIMENSIONS

Width: 1000 mm; **Length:** 3000 mm

Thickness: 8 mm. Other dimensions on request.

Dimensions tolerance: to M4 DIN 7715, Part 2.

TECHNICAL CHARACTERISTICS

- **Color:** available with a protective black film
- **Theoretical sound reduction index:** Rw = 26,0 dB
- **Reaction to fire:** polyethylene F, EPDM B-s3, d0

COMPOSITION

Try-layer product composed by:

A flat polyethylene 3 mm

B EPDM 2 mm 4 Kg/m^2

C flat polyethylene 3 mm

AKUSTIK® - METAL FOAM

MATERIAL

Akustik®-Metal Foam is the result of the combination of two polyester-based open cell polyurethane layers, density 35 Kg/m^3, with intermediate lead sheet layer (from 0,35 mm to 0,5 mm thick). Resistant to temperatures from -10°C to + 90°C.

FIELDS OF APPLICATION

Akustik®-Metal Foam, thanks to its lead sheet layer, is a very good sound-insulating material and an excellent soundabsorbing product as its special profile increases the acoustical absorption. It is widely used for the sound insulation of engine compartment linings, generator boxes, and compressors, etc.

INSTALLATION

It can be applied to any surface, provided that it is smooth, free of grease, oil or dust using NDA KOLL glue. For the application to ceilings we recommend the use of specific fixings. Akustik® -Metal Foam can be supplied with one self-adhesive side to facilitate application. The adhesivation of the product is not a definitive bonding and does not guarantee the seal, it simply facilitates the installation if supported by glue.

STANDARD DIMENSIONS

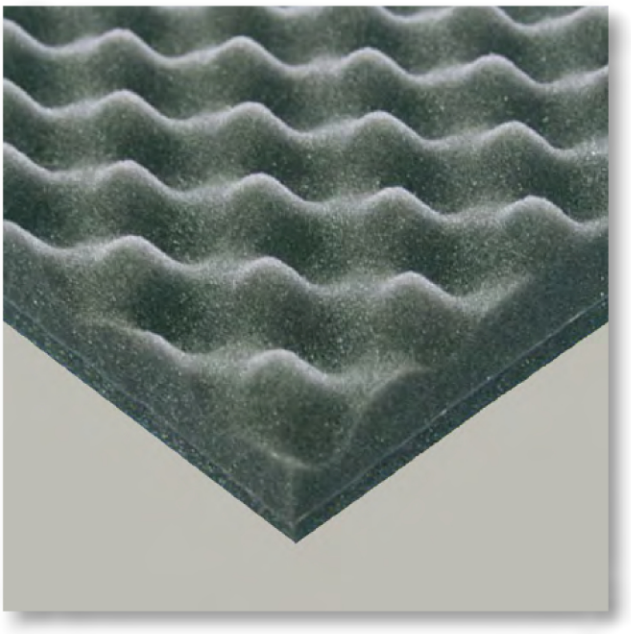
Width: mm 1000

Length: mm 1000 or 3000

Thickness: mm 30 - 40 - 50 - 60 mm

Dimensions tolerance: to DIN 7715 Part 2.

ACOUSTICAL SPECIALLY PROFILED PRODUCT FOR SOUND INSULATION AND ACOUSTIC ABSORPTION MADE OF EXPANDED POLYURETHANE WITH INTERMEDIATE LEAD SHEET LAYER



TECHNICAL CHARACTERISTICS

- **Material:** open cell polyester-based polyurethane foam
- **Density:** 35 Kg/m^3
- **Thermal conductivity coefficient:** 0,029 kcal / mh° C
- **Soundproof insulation power:** Rw = 27,5 dB
- **Thermal resistance:** -10 +90°C
- **Surface appearance:** specially profiled
- **Dimensions:** panels mm 1000 x 1000
- **Thickness:** mm 30 - 40 - 50 - 60
- **Basic color:** dark grey
- **Reaction to fire:** polyurethane HF1 (to UL94)

COMPOSITION

Try-layer product composed by:

A Profiled polyurethane
B Lead sheet layer from 0,35 to 0,50 mm
C Flat Polyurethane

LEAD AND EPDM INSULATION

AKUSTIK® - GUM FOAM

THE SOUND-ABSORBING PROFILED PRODUCT IN EXPANDED POLYURETHANE WITH INTERMEDIATE EPDM LAYER

TECHNICAL CHARACTERISTICS

- **Material:** open-cell polyester-based polyurethane foam
- **Density:** 35 Kg/m^3
- **Thermal conductivity coefficient:** 0,029 Kcal/m h°C
- **Thermal resistance:** -10 +90°C
- **Surface appearance:** profiled
- **Dimensions:** panels mm 1000 x 1000 (other on request)
- **Thickness:** mm 30 - 40 - 60, etc.
- **Basic color:** dark grey
- **Theoretical sound reduction index** Rw = 30,0 dB
- **Reaction to fire:** polyurethane HF1 (to UL94); EPDM B- s3, d0

COMPOSITION

Try-layer product composed by:

A Profiled polyurethane
B EPDM
C Flat polyurethane

MATERIAL

Akustik®-Gum Foam is the combination of two open cell polyurethane polyester-based layers with a density of 35 Kg/m^3, with an EPDM layer variable mass of 4 or 5,5 Kg/m^2; resistant to temperatures from - 10°C to +90°C. Product completely bitumen free.

FIELDS OF APPLICATION

Akustik®-Gum Foam, thanks to its lead sheet layer, is a very good sound-insulating and sound-absorbing product. In fact, its acoustic absorption is increased by its profiled polyurethane. Akustik®-Gum Foam is largely used for the sound insulation of fixed or moveable walls, ceilings, soundproofed machinery cabins, boxes and in general wherever an excellent acoustic absorption is required.

INSTALLATION

The product presents itself in rolls or panels and it can be easily cut and shaped. It can be installed with NDA KOLL glue, on flat and curved surfaces, provided they are free of dust, oil and grease. For the application to ceilings we recommend the use of specific fixings. Akustik®-Gum Foam can be supplied with one self-adhesive side to facilitate application. The adhesivation of the product is not a definitive bonding and does not guarantee the seal, it simply facilitates the installation if supported by glue.

STANDARD DIMENSIONS

Width: mm 1000

Length: mm 1000 - 2000

Thickness: mm 30 - 40 - 60
Other dimensions on request.

Dimensions tolerance: to DIN 7715 standard, Part 2.

ISOTEK - METAL SLIK

MATERIAL

Light grey Basotect® (BASF) melamine foam. High resistance to temperatures: +150°C. Isotek-Metal Slik has excellent sound-insulating properties, particularly at low / medium frequencies (100 ÷2000 Hz).

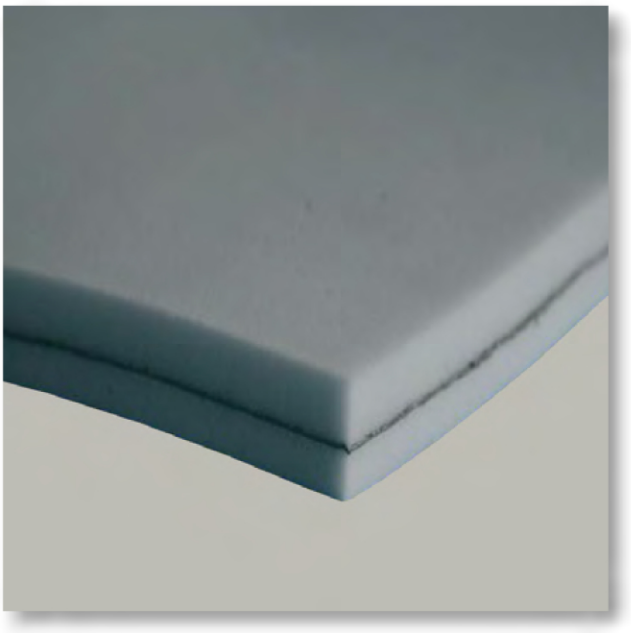
FIELDS OF APPLICATION

Used for sound insulating screening in general: soundproofing of rooms, engines and other compartment linings, partition walls, ceilings, machinery garages, etc. Its fire resistant characteristics allow it to be used where special safety features are required, such as factories, theatres, cinemas, military and civilian firing ranges, hotels, auditoriums, multipurpose halls, etc.

INSTALLATION

Use NDA KOLL glue on flat or curved surfaces of any kind, provided they are free of dust, oil and grease. In the case of ceiling applications the use of special fixing devices is recommended.

THE SOUND-INSULATING PANEL IN BASOTECT® (BASF) MELAMINE FOAM WITH INTERMEDIATE LEAD SHEET LAYER



STANDARD DIMENSIONS

Dimensions: mm 1200 x 600

Dimensions tolerance: to M4 DIN 7715, Part 2

COMPOSITION

Try-layer product composed by:
A Flat Basotect (BASF) melamine foam 10 mm
B Lead 0,50 mm
C Flat Basotect (BASF) melamine foam 10 mm

TECHNICAL CHARACTERISTICS

- **Sound insulation values:** Rw = 29,0 dB
- **Reaction to fire:** B-s1, d0

ProductCatalogue
2018

THE PANELS OF SILENCE

SINCE 1987

N.D.A. Srl

Z.I. Settevene S.S. Cassia BIS km 36,400
01036 Nepi (VT)

Ph. +39 0761 527315
Fax +39 0761 527273
www.ndaitalia.it
info@ndaitalia.it

Kalcer d.o.o.
Ljubljanska cesta 51,
1236 Trzin

tel: +386 (1) 724 67 70
fax: +386 (1) 724 67 99
E-pošta: info@kalcer.si
www.kalcer.si
www.trgovina-kalcer.si