

## VALLI ZABBAN PRODUCTS SPECIFICATIONS

### AETOLIA

#### AEUREKA 50

Very high acoustic insulation to airborne ( $R'w$ ) and impact sound noises ( $L'_{nw}$ ) of light structures, either verticals and horizontals, obtained through a sound impeding/resilient system resulting from the coupling of two different products: one sound impeding panel made up of high density recycled elastomers ( $1150 \text{ kg/m}^3$ ) and a panel of recycled polyurethane agglomerate of lower density ( $90 \text{ kg/m}^3$ ), but with higher elastic properties. AEUREKA 50 is made of two elastomer layers of 18 mm thickness each, separated by an interposed layer of 20 mm thick polyurethane agglomerate.

The AEUREKA 50's dynamic rigidity  $s't$  is equal to  $2 \text{ MN/m}^3$ , whereas the evaluation index of the soundproof power  $R'w$  certified in the laboratory of the panel only is equal to 48 dB. Thanks to such performances, using the VALLI ZABBAN's AEUREKA 50 system, a very high acoustic insulation to airborne and impact sound noises on light structures will be obtained.

#### AEUREKA 40

Very high acoustic insulation to airborne ( $R'w$ ) and impact sound noises ( $L'_{nw}$ ) of light structures, either verticals and horizontals, obtained through a sound impeding/resilient system resulting from the coupling of two different products: one sound impeding panel made up of high density recycled elastomers ( $1150 \text{ kg/m}^3$ ) and a panel of recycled polyurethane agglomerate of lower density ( $90 \text{ kg/m}^3$ ), but with higher elastic properties. AEUREKA 40 is made with only one 18 mm elastomer layer, coupled with a single 10 mm thick polyurethane agglomerate layer.

The AEUREKA 40's dynamic rigidity  $s't$  is equal to  $4 \text{ MN/m}^3$ , whereas the evaluation index of the soundproof power  $R'w$  certified in the laboratory of the panel only is equal to 40 dB. Thanks to such performances, using the VALLI ZABBAN's AEUREKA 40 system, a very high acoustic insulation to airborne and impact sound noises on light structures will be obtained.

#### AECOSILENT OVER

Acoustic insulation from impact sound noises obtained through the construction of a floating floor on a suitable decoupling layer of elastic-resilient material after having made the lightened levelling screed.

The elastic element at issue is made of a membrane of elastomeric granules bound by mass polymerized polyurethane resins,  $750 \text{ Kg/m}^3$  density, 3 mm thickness, coupled with a layer of  $90 \text{ Kg/m}^3$  density recycled flexible polyurethane agglomerate, 5 mm thickness, with an evaluation index of the sound pressure level reduction of impact sound noise  $\Delta Lw = 33$



dB and dynamic rigidity equal to 11 MN/m<sup>3</sup>. VALLI ZABBAN's AECOSILENT OVER system, thanks to the margins with overlapping selvedge, does not require further junction elements between rolls, it remains indispensable the perimeter connection with the vertical walls using ISOLBAEND V for the realization of the floating floor tank.

### AECOSILENT UNDER

Acoustic insulation from impact sound noises obtained through the construction of a floating floor on a suitable decoupling layer of elastic-resilient material laid directly on the floor before carrying out the fixtures. The elastic element at issue is made up of an elastomeric granules mat bound by mass polymerized polyurethane resins, 750 Kg/m<sup>3</sup> density, 6 mm thickness, coupled with a recycled flexible polyurethane agglomerate of 90 kg/m<sup>3</sup> density, 5 mm thickness, with an evaluation index of the sound pressure level reduction of impact sound noise  $\Delta L_w = 33$  dB and dynamic rigidity equal to 10 MN/m<sup>3</sup>. The AECOSILENT UNDER system by VALLI ZABBAN, thanks to the edges with overlapping selvedge, does not require further junction elements between rolls, it remains indispensable the perimeter connection with the vertical walls using ISOLBAEND V for the realization of the floating floor tank.

### AECOSILENT SPECIAL

Acoustic insulation from impact sound noises obtained through the construction of a floating floor on a suitable decoupling layer of elastic-resilient material after the construction of the lightened levelling screed. The elastic element at issue is made up of an elastomeric granules mat bound by mass polymerized polyurethane resins, 950 Kg/m<sup>3</sup> density, 2 mm thickness, coupled with a polyester fibre layer or of 30-50 Kg/m<sup>3</sup> density, 6 mm thickness, with an evaluation index of the sound pressure level reduction of impact sound noise  $\Delta L_w = 35$  dB and dynamic rigidity equal to 8 MN/m<sup>3</sup>. The AECOSILENT SPECIAL system by VALLI ZABBAN, requires the use of AEDESIVO as conjunction element between the rolls, it remains indispensable the perimeter connection with the vertical walls using ISOLBAEND V for the realization of the floating floor tank.

### ISOLNOISE AE 10

Acoustic insulation from impact sound noises obtained through the construction of a floating floor on a suitable decoupling layer of elastic-resilient material laid directly on the floor before carrying out the fixtures. The elastic element at issue is made up of an elastomeric granules mat bound by mass polymerized polyurethane resins, 750 Kg/m<sup>3</sup> density, 10 mm thickness, with an evaluation index of the sound pressure level reduction of impact sound noise  $\Delta L_w = 26$  dB, made up of natural and synthetic elastomers granules bound by mass polymerized polyurethane resins, dynamic rigidity equal to 37 MN/m<sup>3</sup>, such as ISOLNOISE AE 10 by VALLI ZABBAN.



### ISOLNOISE AE 8

Acoustic insulation from impact sound noises obtained through the construction of a floating floor on a suitable decoupling layer of elastic-resilient material laid directly on the floor before carrying out the fixtures. The elastic element at issue is made up of an elastomeric granules mat bound by mass polymerized polyurethane resins, 750 Kg/m<sup>3</sup> density, 8 mm thickness, with an evaluation index of the sound pressure level reduction of impact sound noise  $\Delta L_w = 25$  dB, made up of natural and synthetic elastomers granules bound by mass polymerized polyurethane resins, dynamic rigidity equal to 40 MN/m<sup>3</sup>, such as ISOLNOISE AE 8 by VALLI ZABBAN.

### ISOLNOISE AE 6

Acoustic insulation from impact sound noises obtained through the construction of a floating floor on a suitable decoupling layer of elastic-resilient material laid directly on the floor before carrying out the fixtures. The elastic element at issue is made up of an elastomeric granules mat bound by mass polymerized polyurethane resins, 750 Kg/m<sup>3</sup> density, 6 mm thickness, with an evaluation index of the sound pressure level reduction of impact sound noise  $\Delta L_w = 24$  dB, made up of natural and synthetic elastomers granules bound by mass polymerized polyurethane resins, dynamic rigidity equal to 44 MN/m<sup>3</sup>, such as ISOLNOISE AE 6 by VALLI ZABBAN.

### ISOLNOISE AE 5

Acoustic insulation from impact sound noises obtained through the construction of a floating floor on a suitable decoupling layer of elastic-resilient material laid directly on the floor before carrying out the fixtures. The elastic element at issue is made up of an elastomeric granules mat bound by mass polymerized polyurethane resins, 750 Kg/m<sup>3</sup> density, 5 mm thickness, with an evaluation index of the sound pressure level reduction of impact sound noise  $\Delta L_w = 23$  dB, made up of natural and synthetic elastomers granules bound by mass polymerized polyurethane resins, dynamic rigidity equal to 53 MN/m<sup>3</sup>, such as ISOLNOISE AE 5 by VALLI ZABBAN.

### ISOLNOISE AE 4

Acoustic insulation from impact sound noises obtained through the construction of a floating floor on a suitable decoupling layer of elastic-resilient material laid directly on the floor before carrying out the fixtures. The elastic element at issue is made up of an elastomeric granules mat bound by mass polymerized polyurethane resins, 750 Kg/m<sup>3</sup> density, 4 mm thickness, with an evaluation index of the sound pressure level reduction of impact sound noise  $\Delta L_w = 21$  dB, made up of natural and synthetic elastomers granules bound by mass polymerized polyurethane resins, dynamic rigidity equal to 66 MN/m<sup>3</sup>, such as ISOLNOISE AE 4 by VALLI ZABBAN.

### ISOLNOISE AE 3

Acoustic insulation from impact sound noises obtained through the construction of a floating floor on a suitable decoupling layer of elastic-resilient material laid directly on the floor before carrying out the fixtures. The elastic element at issue is made up of an elastomeric granules mat bound by mass polymerized polyurethane resins, 750 Kg/m<sup>3</sup> density, 3 mm thickness, with an evaluation index of the sound pressure level reduction of impact sound noise  $\Delta L_w = 19$  dB, made up of natural and synthetic elastomers granules bound by mass polymerized polyurethane resins, dynamic rigidity equal to 88 MN/m<sup>3</sup>, such as ISOLNOISE AE 3 by VALLI ZABBAN.

### AEMIX PUR

Mat for the insulation from impact sound noises obtained through the construction of a floating floor over a suitable decoupling layer of elastic-resilient material laid after having made the lightened trimming screed. The material is made up of flexible polyurethane foam flakes agglomeration obtained from the recycling of production scraps or end of life products bound by mass polymerized polyurethane, 5.0 mm thickness, with an evaluation index of the sound pressure level reduction of impact sound noise  $\Delta L_w = 28$  dB, with a load of 115 kg/m<sup>2</sup>, dynamic rigidity equal to 22 MN/m<sup>3</sup> and resonance frequency of 53 Hz, such as AEMIX PUR by VALLI ZABBAN.

### AESSE 3000

Acoustic insulation from impact sound noises obtained through the construction of a floating floor over a suitable decoupling layer of elastic-resilient material laid directly on the floor before carrying out the fixtures or after having made the lightened levelling screed. The material is made up of flexible polyurethane agglomeration, coupled on one side with bituminous glass fibre and polypropylene, 6.1 mm thickness, with an evaluation index of the sound pressure level reduction of impact sound noise  $\Delta L_w = 26$  dB, with a load of 115 kg/m<sup>2</sup>, dynamic rigidity equal to 22 MN/m<sup>3</sup> and resonance frequency of 53 Hz, such as AESSE 3000 by VALLI ZABBAN.

### AESSE 2200

Acoustic insulation from impact sound noises obtained through the construction of a floating floor over a suitable decoupling layer of elastic-resilient material given by an impact sound noises insulation mat made up of polyester fibre coming from the recycling of PET bottles coupled on one side with a bituminous membrane laid after having made the lightened screed for fixture's levelling. The elastic material at issue has a 7.1 mm thickness, with an evaluation index of the sound pressure level reduction of impact sound noise  $\Delta L_w = 29$  dB, dynamic rigidity equal to 10 MN/m<sup>3</sup> and resonance frequency of 36 Hz, such as AESSE 2200 by VALLI ZABBAN.



### **AESSE 3000 PLUS**

Acoustic insulation from impact sound noises obtained through the construction of a floating floor over a suitable decoupling layer of elastic-resilient material laid directly on the floor before carrying out the fixtures or after having made the lightened levelling screed. The material is made up of flexible polyurethane agglomeration, coupled on one side with bituminous glass fibre and polypropylene, 7.4 mm thickness, with an evaluation index of the sound pressure level reduction of impact sound noise  $\Delta L_w = 28$  dB, dynamic rigidity equal to  $22 \text{ MN/m}^3$  and resonance frequency of 53 Hz, such as AESSE 3000 PLUS by VALLI ZABBAN.

### **NOVAFLEX AESOUND**

Acoustic insulation from impact sound noises obtained through the construction of a floating floor over a suitable decoupling layer of elastic-resilient material laid directly under floor paving. The elastic element at issue is made up of an elastomeric granules membrane bound by mass polymerized polyurethane resins and cork granules, of  $750 \text{ Kg/m}^3$  density, 2,5 mm thickness, with an evaluation index of the sound pressure level reduction of impact sound noise from  $\Delta L_w = 15$  dB, up to  $\Delta L_w = 21$  dB depending on the type of coating. The material will be simply laid on the screed in case of floating wood coating, glued with appropriate cement or polyurethane glues in case of ceramic coating or glued parquet.

### **AEMIX ACUSTIK**

The airborne noises acoustic insulation of brick or plasterboard double partitions, or industrial insulating cabins and the sound absorption of gridded or holed ceilings will be obtained by installing a suitable sound absorbent and sound impeding ecological plywood panel, made up of high density ( $950 \text{ kg/m}^3$ ) elastomeric agglomerate, 5 mm thickness, coupled with flexible polyurethane foam flakes agglomeration obtained from the recycling of production scraps or end of life products bound by mass polymerized polyurethane, without using CFC/HFC,  $90 \text{ kg/m}^3$  density, 20 mm thickness, such as AEMIX ACUSTICK by VALLI ZABBAN.

### **AEFASTICK RUBBER**

Airborne noises acoustic insulation of plasterboard or brick double walls obtained with the application in the cavity of a sound impeding and sound absorbing ecological panel, made up of a natural elastomers compounds layer coming from the recycling of ELT  $750 \text{ kg/m}^3$  density, 4 mm thickness, inserted between two layers of thermally bound polyester fibre of  $20\text{-}40 \text{ kg/m}^3$  density 20 mm thickness each, of dimensions 1200 mm X 600 mm and 44 mm of total thickness, such as AEFASTICK RUBBER by VALLI ZABBAN.



### ISOLNOISE AE 15

The airborne noises acoustic insulation in brick double layer vertical partitions will be obtained by installing inside the cavity a suitable sound insulating panel made up of a (750 Kg/m<sup>3</sup>) density and 15 mm thick panel. The buildings internal double walls sound insulating power, to comply with what is required from D.P.C.M. 5/12/1997, will be obtained by using the ISOLNOISE AE 15 panels by VALLI ZABBAN.

### ISOLNOISE AE 20

The airborne noises acoustic insulation in brick double layer vertical partitions will be obtained by installing inside the cavity a suitable sound insulating panel made up of a (750 Kg/m<sup>3</sup>) density and 20 mm thick panel. The buildings internal double walls sound insulating power, to comply with what is required from D.P.C.M. 5/12/1997, will be obtained by using the ISOLNOISE AE 20 panels by VALLI ZABBAN.

### AEFASTICK

Airborne noises acoustic insulation obtained by inserting in the cavity a sound absorbent and sound impeding ecological panel made up of thermally bound polyester fibre of 40 mm thickness and 20 or 40 kg/m<sup>3</sup> density such as AEFASTICK by VALLI ZABBAN.

### AEMIX WALL

The increase of acoustic insulation to airborne noises of brick vertical partitions will be obtained by installing, in adherence with the existing wall, a suitable sound absorbent ecological panel made up of flexible expanded polyurethane flakes agglomeration obtained from the recycling of production scraps or end of life products bound by mass polymerized polyurethane, with no use of CFC/HFC, 90 Kg/m<sup>3</sup> density, 20 mm thickness, also having good thermal insulating properties, coupled with a 12,5 mm thick plasterboard panel, such as AEMIX WALL by VALLI ZABBAN.

The counter wall will be completed with a further layer of plasterboard panels mounted in a staggered way in respect to AEMIX WALL. The system, applied only on one or both sides of the existing wall with poor sound insulating power, compared to the reduced increment of the thickness, will prove effective to regain the compliance with the minimum insulating requirements imposed by D.P.C.M. 5/12/97.

### AEFAST WALL 20.

The increase of acoustic insulation from airborne noises of brick vertical partitions will be obtained by installing, in adherence with the existing wall, a suitable elastic and sound impeding ecological panel made up of natural and synthetic recycled elastomeric compounds bound by mass polymerized polyurethanes, 750 Kg/m<sup>3</sup> density, 20 mm



thickness, coupled with a 12,5 mm thick plasterboard panel, such as AEFAST WALL 20. by VALLI ZABBAN.

The counter wall will be completed with a further layer of plasterboard panels mounted in a staggered way in respect to AEFAST WALL 20. The system, applied only on one or both sides of the existing wall with poor sound insulating power, compared to the reduced increment of the thickness, will prove effective to regain the compliance with the minimum insulating requirements imposed by D.P.C.M. 5/12/97.

### **AEFAST WALL 10.**

The increase of acoustic insulation from airborne noises of brick vertical partitions will be obtained by installing, in adherence with the existing wall, a suitable elastic and sound impeding ecological panel made up of natural and synthetic recycled elastomeric compounds bound by mass polymerized polyurethanes, 750 Kg/m<sup>3</sup> density, 10 mm thickness, coupled with a 12,5 mm thick plasterboard panel, such as AEFAST WALL 10. by VALLI ZABBAN.

The counter wall will be completed with a further layer of plasterboard panels mounted in a staggered way in respect to AEFAST WALL 10. The system, applied only on one or both sides of the existing wall with poor sound insulating power, compared to the reduced increment of the thickness, will prove effective to regain the compliance with the minimum insulating requirements imposed by D.P.C.M. 5/12/97.

### **AEFAST WALL 4.**

The increase of acoustic insulation from airborne noises of brick vertical partitions will be obtained by installing, in adherence with the existing wall, a suitable elastic and sound impeding ecological panel made up of natural and synthetic recycled elastomeric compounds bound by mass polymerized polyurethanes, 750 Kg/m<sup>3</sup> density, 4 mm thickness, coupled with a 12,5 mm thick plasterboard panel, such as AEFAST WALL 4. by VALLI ZABBAN.

The counter wall will be completed with a further layer of plasterboard panels mounted in a staggered way in respect to AEFAST WALL 20. The system, applied only on one or both sides of the existing wall with poor sound insulating power, compared to the reduced increment of the thickness, will prove effective to regain the compliance with the minimum insulating requirements imposed by D.P.C.M. 5/12/97.

### **AESTARK PLUS**

The increase of acoustic insulation from airborne noises and plasterboard panels vibrations or pipes of plastic material fixtures, will be obtained with the application of a 1500 kg/m<sup>3</sup> density, 2.4 mm thick membrane self-adhesive on one side, made of polymers and other fillers viscous-elastic agglomerate, such as AESTARK PLUS by VALLI ZABBAN, with a sound insulating power of 22 dB.





### **AESSE 3000 PLUS**

Acoustic insulation from fixture noises obtained by making a suitable decoupling layer of elastic-resilient layer to wrap any kind of pipes or fixed on the toilet tank. The material is made up of flexible polyurethane agglomerate, coupled on one side with bituminous glass fibre and polypropylene, 7.4 mm thickness, with a sound insulating power of 22 dB, such as AESSE 3000 PLUS by VALLI ZABBAN.

### **AEBOX**

Device for kitchen ventilation holes used to reduce the noise coming through from the outside but still allowing the air ventilation as requested by the actual legislation. AEBOX can be inserted either in the external wall during construction or during renovation, after having done a coring of 160 mm diameter. The certified insulation index is 42 dB.

### **AEBOX PLUS**

Device for kitchen ventilation holes used to reduce the noise coming through from the outside but still allowing the air ventilation as requested by the actual legislation. AEBOX PLUS can be inserted either in the external wall during construction or during renovation, after having done a coring of 200 mm diameter. The certified insulation index is 45 dB.

### **AEMAXT**

The airborne noises acoustic insulation of wood roofing with ventilation chamber will be obtained by installing directly over the wood board and under the thermal insulation, a suitable sound insulating and sound absorbent panel coming from the coupling of a 6 mm thick 750 kg/m<sup>3</sup> density rubber panel, made up of natural and synthetic elastomeric compounds coming from the recycling of ELT (end of life tyres) bound by mass polymerized polyurethane with a layer of recycled polyurethane agglomerate 30 mm thickness such as AEMAX T by VALLI ZABBAN.

### **ISOLGRAEN 10**

The airborne noises acoustic insulation inside cavities between two housing units will be obtained by installing a layer of elastic-resilient material fixed on one of the two walls. The elastic element at issue will consist of a 950 kg/m<sup>3</sup> density 10 mm thick membrane made up of natural and synthetic rubber granules bound by polyurethane resins, such as ISOLGRAEN 10. The sound absorbent layer will be installed by mechanical fastening with beating nylon plugs, making a 5 cm overlapping between the mats.





### ISOLGRAEN 5

The airborne noises acoustic insulation inside cavities between two housing units will be obtained by installing a layer of elastic-resilient material fixed on one of the two walls. The elastic element at issue will consist of a 950 kg/m<sup>3</sup> density 5 mm thick membrane made up of natural and synthetic rubber granules bound by polyurethane resins, such as ISOLGRAEN 5. The sound absorbent layer will be installed by mechanical fastening with beating nylon plugs, making a 5 cm overlapping between the mats.

### ISOLBAEND V

The acoustic insulation from vibrations coming from no supporting internal walls, necessary to complete the floating floor system for impact sound noises acoustic insulation obtained by laying a vertical overlapping band of elastic-resilient material of 65 kg/m<sup>3</sup> specific weight made of a neoprene resin self-adhesive on one side, such as ISOLBAEND V by VALLI ZABBAN.

### ISOLBAEND

The acoustic insulation from vibrations coming from no supporting internal vertical partitions, necessary to complete the floating floor system for impact sound noises acoustic insulation, obtained by laying, at the base or at the top, of an elastic-resilient wall cut band of 750 kg/m<sup>3</sup> specific weight made up of natural and synthetic elastomeric granules bound by mass-polymerized polyurethane resins, dynamic rigidity equal to 66 MN/m<sup>3</sup> such as ISOLBAND AE by VALLI ZABBAN.

### AEFLEX

The acoustic insulation from vibrations coming from no supporting internal walls, necessary to complete the floating floor system for impact sound noises acoustic insulation obtained by laying a vertical overlapping band of elastic-resilient material of 30-33 kg/m<sup>3</sup> specific weight and 6 mm thickness made up of a closed cells polyethylene band, self-adhesive on one side and with an L shape pre-cut with a 5 cm base and 15 cm height, such as AEFLEX by VALLI ZABBAN.

### AEFLEX SR

The acoustic insulation from vibrations coming from no supporting internal walls, necessary to complete the floating floor system for impact sound noises acoustic insulation obtained by laying a vertical overlapping band of elastic-resilient material of 30-33 kg/m<sup>3</sup> specific weight and 6 mm thickness made up of a closed cells polyethylene band, self-adhesive on one side of 4 cm height, such as AEFLEX SR by VALLI ZABBAN.

