

## AESSE 3000 PLUS

### IMPACT SOUND NOISES INSULATION MAT

Impact sound noises insulation mat made of flexible polyurethane agglomerate coupled on one side with a bituminous glass fibre and polypropylene. The rolls have a 5 cm. lateral selvedge.

The polyurethane agglomerate own characteristics give the product a very good behaviour even as thermal insulator. AESSE 3000 PLUS does not give any handling problems and does not release any dangerous substances.

### ACOUSTIC PERFORMANCES

DESCRIPTION	SYMBOL	M.U.	VALUE	NORMS	NOTES
Apparent dynamic rigidity	(s <sub>t</sub> ' )	MN/m <sup>3</sup>	22	UNI EN 29052-1	Cert.n° 016-09-acu DS
Resonance frequency	(f <sub>0</sub> )	Hz	53	UNI EN 29052-1	Cert.n° 016-09-acu DS
Impact sound noise attenuation level	(ΔL)	dB	26	UNI EN ISO 140-8 UNI EN ISO 717-2	Cert.n° 001-08-acu IN
Impact sound noise index level	(L <sub>n,w</sub> )	dB	51	UNI EN ISO 140-6 UNI EN ISO 717-2	Cert.n° 009-08-acu IN

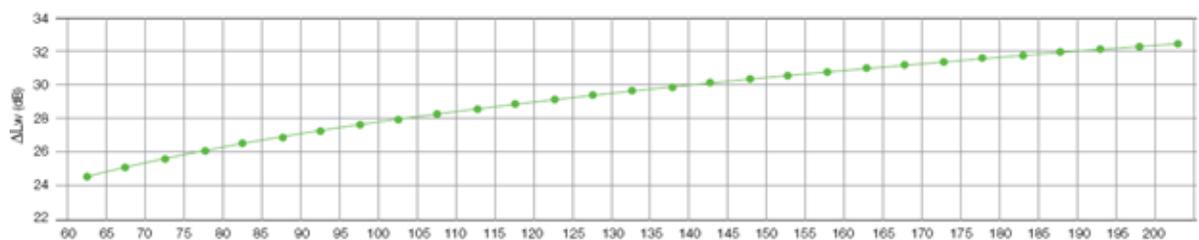
DESCRIPTION	SYMBOL	M.U.	VALUE	NORMS	NOTES
Soundproofing power for the bituminous membrane only	(R <sub>w</sub> )	dB	22	UNI EN ISO 10140-2 UNI EN ISO 717-1	Cert. n° 014-13-IAP
Soundproofing power for Aesse 3000 Plus	(R <sub>w</sub> )	dB	27	UNI EN ISO 10140-2 UNI EN ISO 717-1	Internal laboratory test

### ATTENUATION RATING INDEX OF IMPACT SOUND NOISE PRESSURE LEVEL ACCORDING TO UNI EN 12354-2

m' kg/m <sup>2</sup>	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200	220
ΔL <sub>w</sub> dB	24,5	25,1	25,5	26,0	26,4	26,8	27,2	27,5	27,9	28,2	28,5	28,8	29,1	29,3	29,6	29,8	30,1	30,3	30,5	30,7	30,9	31,1	31,3	31,5	31,7	31,9	32,0	32,2	32,4	33,0

Lodging screed weight

### ΔL<sub>w</sub> VARIATION IN RELATION TO SCREED WEIGHT



Screed surface mass m' (kg/m<sup>2</sup>)



### THERMAL PERFORMANCES

DESCRIPTION	SYMBOL	M.U.	VALUE	NORMS	NOTES
Thermal conductivity	(λ)	W/mK	0,0415	UNI EN 12667:2002	Cert.n° 036-09 the TR
Thermal resistance	(R)	m <sup>2</sup> K/W	0,178	UNI EN 12667:2002	Calculated value
Thermal transmission	(U)	W/m <sup>2</sup> K	5,62	UNI EN 12667:2002	Calculated value

### PHYSICAL-MECHANICAL PERFORMANCES

DESCRIPTION	M.U.	VALUE	TOLERANCES	NORMS
Bituminous layer density	Kg/m <sup>3</sup>	1620	± 5 %	
Bituminous layer thickness	mm	2,2	± 5 %	
Polyurethane density	Kg/m <sup>3</sup>	90	± 20 %	DIN EN ISO 845 AS 2282.3
Polyurethane thickness	mm	5	± 10 %	
Total thickness	mm	7,2	± 10 %	

DESCRIPTION	M.U.	BITUMINOUS LAYER VALUE	POLYURETHANE VALUE	NORMS Membrane - Polyurethane	
Resistance to 40 % compression	KPa		Min 10,0		DIN EN ISO 3386/1
Elongation percentage at break	%	Long: > 2.5* Transv: > 2.5*	Min 60	*EN 12311-1	DIN EN ISO 1798 AS 2282.6
Resistance to tensile strength	N/5 cm	Long: > 500* Transv: > 280*		*EN 12311-1	
Heat resistance	°C		Up to + 120		
Cold resistance	°C		Up to -40	DIN 4102	

### CHEMICAL PERFORMANCES

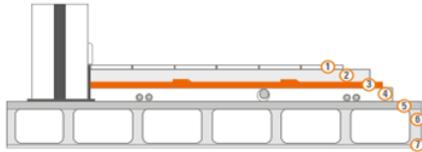
CHARACTERISTIC	PERFORMANCES
Chemical interactions	Highly resistant to acids and alkaline detergents, retains its characteristics unchanged over time
Electrostatic	Does not accumulate static charge and prevent interaction between materials
Environmental sustainability	100 % recyclable



## SPECIFICATION

Impact sound noises acoustic insulation obtained by carrying out a floating floor over a suitable elastic-resilient decoupled layer laid directly over the concrete floor before the plumbing and electricity fixtures or after having made the lightened levelling screed. The material is made of flexible polyurethane agglomerate coupled on one side with a bituminous glass fibre and polypropylene, 7,2 mm thick, with an attenuation rating index to impact sound noise pressure level of  $\Delta L_w = 28$  dB, dynamic rigidity equal to  $22 \text{ MN/m}^3$  and resonance frequency of 53 Hz such as AESSE 3000 PLUS by VALLI ZABBAN.

## APPLICATION - FLOOR



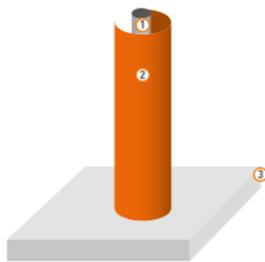
- 1) Finishing
- 2) Lodging screed
- 3) AESSE 3000 PLUS
- 4) Lightened screed
- 5) Concrete layer
- 6) Floor
- 7) Plaster

After the installation of the fixtures and the levelling with lightened screed, before the screed.

### APPLICATION METHOD

- 1 Decouple at the base all the vertical partitions (walls) with wall cut band ISOLBAEND
- 2 Decouple from the walls the lightened screed with AEFLEX band.
- 3 Lay over the lightened screed the acoustic insulation product AESSE 3000 PLUS on the entire floor closer as much as possible to the walls. Seal the junctions between the mats by overlapping the selvages of the rolls edges.
- 4 Carry out the complete decoupling of the floating screed from the perimeter vertical partitions applying the self-adhesive band AEFLEX between AESSE 3000 PLUS and the wall carrying out all the overlaps.

## APPLICATION - PIPES



- 1) Plumbing pipe
- 2) AESSE 3000 PLUS
- 3) Floor

### APPLICATION METHODS FOR PIPES

Coat the entire pipe with particular attention to its bends with AESSE 3000 Plus taking care to put the soundproofing material, polyurethane agglomerate, next to the pipe itself. Fix the insulating coating with PVC strips similar to cable holder.



### DIMENSIONS AND PACKAGING

SIZE	M.U.	VALUE
Thickness	mm	7,2
Roll height	m	1,05
Roll length	m	6
Weight per m <sup>2</sup>	Kg/m <sup>2</sup>	4,05
Number of rolls per pallet	piece	20
Total area per pallet	m <sup>2</sup>	126
Pallet dimension	cm	120x120x100+10

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