AESSE 3000

IMPACT SOUND NOISES INSULATION MAT

Impact sound noises insulation mat made up 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 does not give any handling problems and does not release any dangerous substances.

ACOUSTIC PERFORMANCES

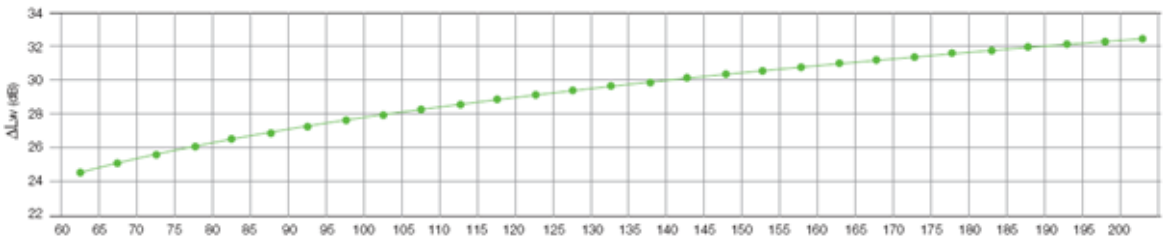
DESCRIPTION	SYMBOL	M.U.	VALUE	NORMS	NOTES
Apparent dynamic rigidity	(s')	MN/m^3	22	UNI EN 29052-1	Cert.n° 016-09-acu DS
Resonance frequency	(f_0)	Hz	53	UNI EN 29052-1	Cert.n° 016-09-acu DS
Air flow resistance		$kPa*s/m^2$	>100	UNI EN 29053	Cert.n° 1192.11UN0010/12
Impact sound noise attenuation level	(ΔL_w)	dB	28	UNI EN 12354-2	Screed weight 115 Kg/m^2
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	($L_{n,w}$)	dB	51	UNI EN ISO 140-6 UNI EN ISO 717-2	Cert.n° 009-08-acu IN

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

m' kg/m²	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
ΔLw 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_W VARIATION IN RELATION TO SCREED WEIGHT



Screed surface mass m' (kg/m^2)

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AETOLIA

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^2 K/W	0,147	UNI EN 12667:2002	Calculated value
Thermal transmission	(U)	W/m^2 K	6,80	UNI EN 12667:2002	Calculated value

PHYSICAL-MECHANICAL PERFORMANCES

DESCRIPTION	M.U.	VALUE	TOLERANCES	NORMS
Bituminous layer density	Kg/m^3	1560	± 5 %	
Bituminous layer thickness	mm	1,5	± 5 %	
Polyurethane density	Kg/m^3	90	± 20 %	DIN EN ISO 845 AS 2282.3
Polyurethane thickness	mm	5	± 10 %	
Total thickness	mm	6,5	± 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	

DESCRIPTION	SIYMBOL	M.U.	VALUE	NORMS	NOTES
Deformation to compression	(d_L)	mm	6,1	UNI EN 12431	Cert.n° 1192.11UN0050/12
Deformation to compression	(d_F)	mm	5,8	UNI EN 12431	Cert.n° 1192.11UN0050/12
Deformation to compression	(d_B)	mm	5,0	UNI EN 12431	Cert.n° 1192.11UN0050/12

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TONON GROUP building inspiration

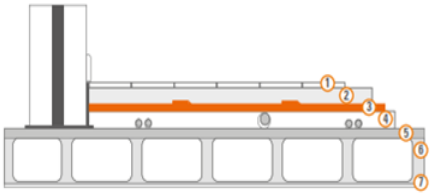
CHEMICAL PERFORMANCES

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 up of flexible polyurethane agglomerate coupled on one side with a bituminous glass fibre and polypropylene, 6,5 mm thick, with an attenuation rating index to impact sound noise pressure level of ΔLw = 28 dB, dynamic rigidity equal to 22 MN/m^3 and resonance frequency of 53 Hz such as AESSE 3000 by VALLI ZABBAN.

APPLICATION – FLOOR



1) Finishing
2) Lodging screed
3) AESSE 3000
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 on the entire floor closer as much as possible to the walls. Seal the junctions between the mats by overlapping the selvedge of rolls edges.
4 Carry out the complete decoupling of the floating screed from the external vertical partitions applying the self-adhesive band AEFLEX between AESSE 3000 and the wall carrying out all the overlaps.

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DIMENSIONS AND PACKAGING

SIZE	M.U.	VALUE
Thickness	mm	6,5
Roll height	m	1,05
Roll length	m	10
Weight per m^2	Kg/m^2	2,79
Number of rolls per pallet	piece	16
Total area per pallet	m^2	168
Pallet dimension	cm	120x120x105+10

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