AEMIX PUR

IMPACT SOUND NOISES INSULATION MAT

Ecological mat made up of flexible polyurethane foam flakes agglomeration obtained from the recycling of production scraps or end of life products, bound by mass-polymerized polyurethanes. AEMIX PUR is made waterproof on one side with a non removable high resistant polyethylene. AEMIX PUR has a very good mechanical resistance and very good shocks absorption capacities.

ACOUSTIC PERFORMANCES

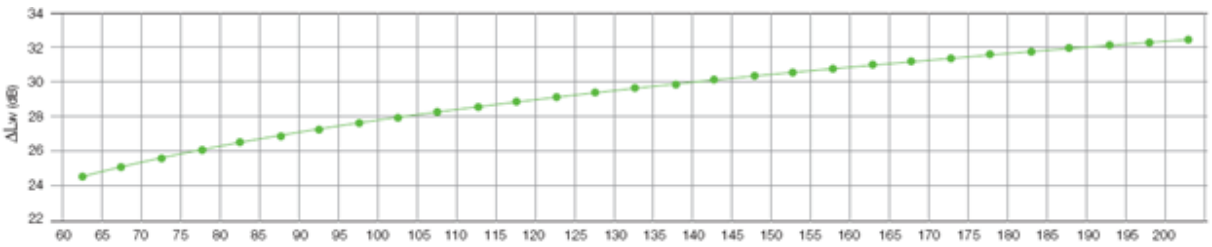
DESCRIPTION	SYMBOL	M.U.	VALUE	NORMS	NOTES
Apparent dynamic rigidity	(s')	MN/m^3	22	UNI EN 29052-1	Cert.n° AE-086002-MG
Resonance frequency	(f_0)	Hz	53	UNI EN 29052-1	Cert.n° AE-086002-MG
Air flow resistance		$kPa*s/m^2$	>100	UNI EN 29053	Cert.n° 1191.11UN0010/12
Impact sound noise attenuation level	(ΔL_w)	dB	28	UNI EN 12354-2	Screed weight 115 Kg/m^2

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

Δ_{LW} VARIATION IN RELATION TO SCREED WEIGHT



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

SINCE 1928
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RUBBER TECHNOLOGIES

AETOLIA

THERMAL PERFORMANCES

DESCRIPTION	SYMBOL	M.U.	VALUE	NORMS	NOTES
Thermal conductivity	(λ)	W/mK	0,0339	UNI EN 12667:2002	Cert.n° 039-09-the TR
Thermal resistance	(R)	m^2 K/W	0,147	UNI EN 12667:2002	Cert.n° 039-09-the TR
Thermal transmission	(U)	W/m^2 K	6,802	UNI EN 12667:2002	Cert.n° 039-09-the TR

PHYSICAL-MECHANICAL PERFORMANCES

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

DESCRIPTION	M.U.	POLYURETHANE VALUE	NORMS
Resistance to 40 % compression	KPa	Min 10,0	DIN EN ISO 3386/1
Elongation percentage at break	%	Min 60	DIN EN ISO 1798 AS 2282.6
Heat resistance	°C	Up to + 120	
Cold resistance	°C	Up to -40	

DESCRIPTION	SIYMBOL	M.U.	VALUE	NORMS	NOTES
Deformation to compression	(d_L)	mm	5,1	UNI EN 12431	Cert.n° 1191.11UN0050/12
Deformation to compression	(d_F)	mm	4,6	UNI EN 12431	Cert.n° 1191.11UN0050/12
Deformation to compression	(d_B)	mm	3,9	UNI EN 12431	Cert.n° 1191.11UN0050/12

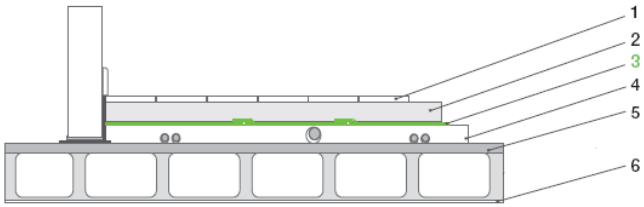
CHEMICAL PERFORMANCES

CHARACTERISTIC	PERFORMANCES
Chemical interactions	Highly resistant to acids and alkaline detergents, rot proof, 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 insulating mat obtained by carrying out a floating floor over a suitable decoupled layer of elastic-resilient material laid after having made the lightened trimming screed. The product is made up with the agglomeration of flexible expanded polyurethane foam flakes coming from the recycling of production scraps or end of life products bound by mass-polymerized polyurethanes, 5 mm. thickness, with an attenuation rating index to impact sound noise pressure level of ΔLw = 28 dB with a load of 115 kg/m^2, dynamic rigidity equal to 22 MN/m^3, and resonance frequency of 53 Hz such as AEMIX PUR by VALLI ZABBAN.

APPLICATION – FLOOR



1) Finishing
2) Lodging screed
3) AEMIX PUR
4) Lightened screed
5) Load bearing floor
6) 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 AE
2 Decouple from the walls the lightened screed with AEFLEX band.
3 Lay over the lightened screed the acoustic insulation product AEMIX PUR 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 and tape.
4 Carry out the complete decoupling of the floating screed from the perimeter vertical partitions applying the self-adhesive band AEFLEX between AEMIX PUR and the wall carrying out all the overlaps.

DIMENSIONS AND PACKAGING

SIZE	M.U.	VALUE
Thickness	mm	5
Roll height	m	1,55
Roll length	m	30
Roll surface	m^2	46.5
Insulating surface	m^2	45
Total area per pallet	m^2	270
Pallet dimension	cm	120x80x155+10 cm

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