SINCE 1928
Valli Zabban
RUBBER TECHNOLOGIES

AETOLIA

ISOLNOISE AE 4

THE HIGH DENSITY ELASTIC-RESILIENT PANEL MADE OF VULCANIZED AND PRESSED RUBBER GRANULES.

Ecological membrane for impact sound noises acoustic insulation made of a 750 kg/m^3 density mat made up of natural and synthetic elastomeric compounds, coming also from the recycling of ELT (end of life tyres), bound by mass-polymerized polyurethanes.

ACOUSTIC PERFORMANCES

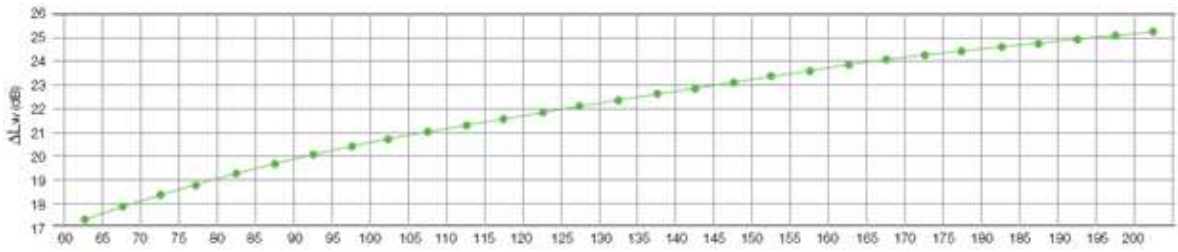
DESCRIPTION	SYMBOL	M.U.	VALUE	NORMS	NOTES
Apparent dynamic rigidity	(s'_t)	MN/m^3	66	UNI EN 29052-1	Cert.n° AE-107004-MG-B
Resonance frequency	(f_0)	Hz	91	UNI EN 29052-1	Cert.n° AE-107004-MG-B
Impact sound noise attenuation level	(ΔL_w)	dB	21	UNI EN 12354-2	Screed weigh 115 Kg/m^2

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

m' kg/m^2	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
ΔLw dB	17,4	17,9	18,4	18,8	19,3	19,6	20,0	20,4	20,7	21,0	21,3	21,6	21,9	22,2	22,4	22,7	22,9	23,1	23,3	23,6	23,8	24,0	24,2	24,4	24,5	24,7	24,9	25,1	25,2

Lodging screed weight

Δ_{LW} VARIATION IN RELATION TO SCREED WEIGHT



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

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TONON GROUP building inspiration

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THERMAL PERFORMANCES

DESCRIPTION	SYMBOL	M.U.	VALUE	NORMS	NOTES
Thermal conductivity	(λ)	W/mK	0,1226	UNI EN 12667:2002	Cert.n° 079-09-the TR
Thermal resistance	(R)	m^2 K/W	0,025	UNI EN 12667:2002	Cert.n° 079-09-the TR
Thermal transmittance	(U)	W/m^2 K	40	UNI EN 12667:2002	Cert.n° 079-09-the TR

PHYSICAL-MECHANICAL PERFORMANCES

DESCRIPTION	M.U.	VALUE	TOLERANCES
Rubber density	Kg/m^3	750	± 7 %
Rubber thickness	mm	4	± 10 %

DESCRIPTION	M.U.	VALUE	NORMS
Elongation percentage at break	%	27	
Heat resistance	°C	Up to + 80	
Cold resistance	°C	Up to -30	
Fire rating		B2	DIN 4102
SHORE A hardness		50	

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

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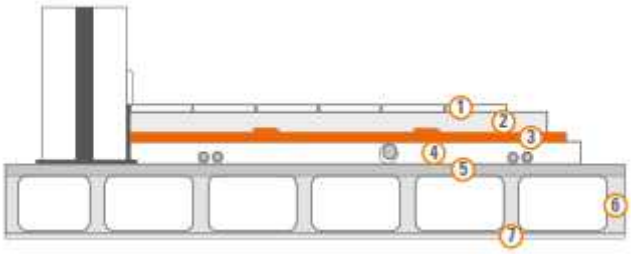
SPECIFICATION

Impact sound noises acoustic insulation obtained by carrying out a floating floor over a suitable de-coupling layer in elastic-resilient material laid after having carried out the levelling lightened screed.
The material is formed of a 750 kg/m^3 (± 7%) density mat made up of natural and synthetic elastomeric compounds, coming from the recycling of ELT (end of life tyres), bound by mass-polymerized polyurethane, 4 mm. thickness, with an attenuation rating index of impact sound noise pressure level of ΔL_w = 21 dB with a 115 kg/m^2 load, dynamic rigidity equal to 66 MN/m^3 and a 91 Hz resonance frequency such as ISOLNOISE AE 4 by VALLI ZABBAN.

APPLICATION – FLOOR



1) Finishing
2) Lodging screed
3) ISOLNOISE AE
4) Lightened trimming screed
5) Concrete layer
6) Floor
7) Plaster

After having installed the fixtures and the levelling with lightened screed, before the lodging screed.

APPLICATION METHOD

1. Decouple at the base all the vertical partitions (walls) with ISOLBAEND cut wall band.
2. Decouple the lightened screed from the wall with AEFLEX band.
3. Lay the acoustic insulation ISOLNOISE AE 4 over the lightened screed and all over the floor getting as near as possible to the walls. Seal the junctions between mats by overlapping the selvages of the rolls margins and tape.
4. Carry out the complete decoupling of the floating screed from the external vertical partitions applying the AEFLEX adhesive band between ISOLNOISE AE 4 and the wall making all the overlaps.

DIMENSION AND PACKAGING

SIZE	M.U.	VALUE
Thickness	mm	4
Roll height	m	1
Roll length	m	12
Weight per m^2	Kg/m^2	3
Number of rolls per pallet	piece	16
Total area per pallet	m^2	192
Pallet dimension	cm	100x120x100+10 cm

Rev. 5 - 10/20

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