SINCE 1928
Valli Zabban
RUBBER TECHNOLOGIES

AETOLIA

ISOLNOISE AE 5

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	53	UNI EN 29052-1	Cert.n° AE-107005-MG-B
Resonance frequency	(f_0)	Hz	82	UNI EN 29052-1	Cert.n° AE-107005-MG-B
Impact sound noise attenuation level	(ΔIIC)	dB	28	ASTM E989	
Impact insulation class	(IIC)	dB	54	ASTM E989	
Impact sound noise attenuation level	(ΔL)	dB	21	UNI EN ISO 10140-3 UNI EN ISO 717-2	Cert.n° 001-2017-ICS
Impact sound noise index level	($L_{n,w}$)	dB	56	UNI EN ISO 10140-3 UNI EN ISO 717-2	Cert.n° 001-2017-ICS

THERMAL PERFORMANCES

DESCRIPTION	SYMBOL	M.U.	VALUE	NORMS	NOTES
Thermal conductivity	(λ)	W/mK	0,1226	UNI EN 12667:2002	Cert.n° 050-09-the TR
Thermal resistance	(R)	m^2 K/W	0,042	UNI EN 12667:2002	Cert.n° 050-09-the TR
Thermal transmittance	(U)	W/m^2 K	23,809	UNI EN 12667:2002	Cert.n° 050-09-the TR

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PHYSICAL-MECHANICAL PERFORMANCES

DESCRIPTION	M.U.	VALUE	TOLERANCES
Rubber density	Kg/m^3	750	± 7 %
Rubber thickness	mm	5	± 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

SPECIFICATION

Impact sound noises acoustic insulation obtained by carrying out a floating floor over a suitable de-coupling layer in elastic-resilient material laid directly on the concrete floor or 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, 5.0 mm. thickness, with an attenuation rating index of impact sound noise pressure level of ΔL_w = 21 dB, dynamic rigidity equal to 53 MN/m^3 and a 82 Hz resonance frequency such as ISOLNOISE AE 5 by VALLI ZABBAN.

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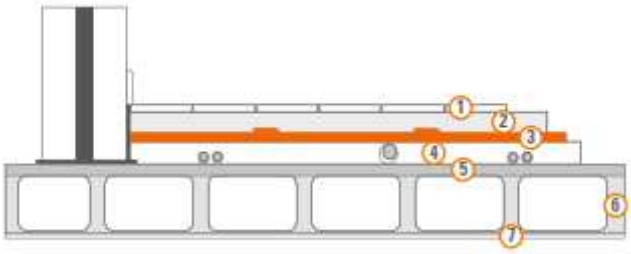
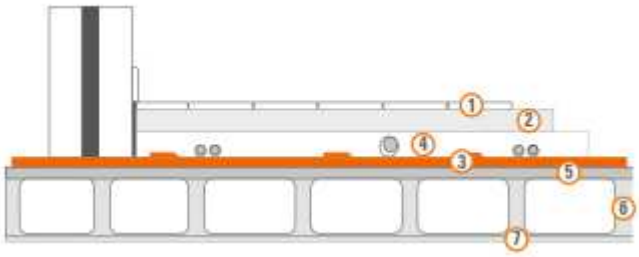
APPLICATION – FLOOR



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



1) Finishing
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After having installed the fixtures and the levelling with lightened screed, before the lodging screed, or directly on the concrete floor before the lightened screed.

APPLICATION METHOD (AFTER LIGHTENED SCREED - 1°IMAGE)

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 5 over the lightened screed and all over the floor getting as near as possible
4. Carry out the complete decoupling of the floating screed from the external vertical partitions applying the AEFLEX adhesive band between ISOLNOISE AE 5 and the wall making all the overlaps.

APPLICATION METHOD (BEFORE THE LIGHTENED SCREED – 2° IMAGE)

1. Over the unrefined floor, after having built the external walls, before the internal walls, lay the ISOLNOISE AE 5 acoustic insulation on the entire floor.
2. Seal the junctions between the mats by overlapping the selvages of the rolls margins and tape with suitable tape.
3. Carry out the internal vertical partitions (internal walls) directly on the elastic panel.
4. Carry out the plumbing and wiring systems directly on the elastic panel.
5. Carry out the complete decoupling of the external vertical partitions by overlaps with ISOLBAEND band.

DIMENSION AND PACKAGING

SIZE	M.U.	VALUE
Thickness	mm	5
Roll height	m	1
Roll length	m	10
Weight per m^2	Kg/m^2	3,75
Number of rolls per pallet	piece	16
Total area per pallet	m^2	160
Pallet dimension	cm	100x120x100+10 cm

QUALITY SYSTEM ISO 9001 · ENVIRONMENTAL SYSTEM ISO 14001 · SAFETY SYSTEM ISO 45001 · SOCIAL ACCOUNTABILITY SA 8000
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