



Wallbarn - Technical Datasheet

Rubber Crumb 5mm Acoustic Pad



Wallbarn Ltd
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IMS.T.434.v2

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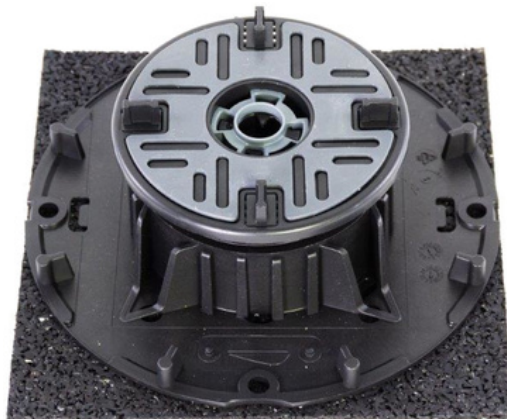
PRODUCT DESCRIPTION

Wallbarn's 5mm Rubber Crumb Acoustic Pad is designed to provide acoustic insulation against vibrations generated by walking and human activities on raised floors. These vibrations can be transmitted to the underlying floor through our supports. To counter this, the acoustic pad is placed between the pedestal base and its support surface.

The acoustic pad is an ecological membrane that effectively mitigates impact sound noises. It is crafted from a 750 kg/m³ density mat comprising natural and synthetic elastomeric compounds, some of which are sourced from the recycling of ELT (end of life tyres). These components are securely bound using mass-polymerized polyurethanes, ensuring a durable and environmentally conscious solution for acoustic insulation.

FEATURES

- Excellent mechanical protection of the waterproofing membrane.
- Easy to install with no bonding required.
- Immediately trafficable after installation.
- Excellent mechanical resistance to the impact by blunt materials.
- Strong resistance to abrasion and tearing.
- Rot-proof, resistant against mold and moisture.
- Eco-friendly because it is made with recycled rubber.
- Cost effective, thanks to its ease of installation.
- Protects from compression and point loading from the paving or decking system and associated pedestrian traffic.
- Reduces surface noise to deck or patio



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TECHNICAL DATA

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	(f0)	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	(Ln,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 KW	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

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