



Sonic-Shield® Presents Pyrotek's Reapor®

An eco-friendly sound absorber for challenging environments

Reapor® Acoustic panels are high performance noise absorbers that look like cut stone.

Constructed from small aerated granules made from recycled glass. The granules are fused together through a patented high temperature sintering process to form a hard, lightweight, fiber-free, non-combustible stone-look panel that can be used indoors and outdoors. The unique material is highly porous, absorbing noise both between and within the granules.

Reapor® panels are simple and easy to install using recommended adhesives (refer to Installation Guide for details). The panels can be cut, drilled and routed using standard wood working tools, enabling easy installation around obstacles.

The panels are suitable for use outdoors. Wet panels will drain freely and dry in the sun, however, this may result in efflorescence where crystalline salts are deposited on the surface of the panel. Efflorescence will not affect acoustic performance. If efflorescence does occur, the salts may be removed using commercial efflorescence cleaners.

Reapor® is a registered trademark of Liaver used with permission by Pyrotek as distributors.

VOC STATEMENT

Reapor® does not contain any Volatile Organic Compounds (VOC) when evaluated to the differing definitions as applied under the Australia National Pollutant Inventory, the EU Council Directive 1999/13/EC or the USA EPA Regulation 40CFR 51.100(s). This product can be classed as low VOC-emitting. The material emissions are less than the threshold of 0.5 mg/m²/hr as specified in Green Building Council of Australia 'Green Star' credit IEQ-13. Formaldehyde compound emission rate is less than the threshold of 0.1 mg/m²/hr as specified in 'Green Star' credit IEQ-14.

SPECIFICATIONS

Color	Light grey (standard)
Packaging	.984" x 24.6" x 47.24"
	1.968" 24.6" x 49.21"
	custom depending on MOQ



APPLICATIONS

- Rail and motorway tunnels, vent shafts and noise fences
- Outdoor cafes, bars and restaurants
- Interior walls and ceilings of offices, retail space, hospitals, schools and aged care facilities
- Fire exits and stairwells
- HVAC and gen-set plant rooms
- Industrial noise enclosures
- Shooting ranges

FEATURES

- Resists weather, water and UV exposure over an extended period
- Non-combustible, with zero smoke emission
- Exceptionally high NRC of 0.95 (50 mm panel)
- Easy to cut, drill and rout using standard wood working tools
- Great natural 'stone like' look
- Made from recycled glass
- Lightweight
- Fiber free

For other product information, technical assistance or ordering, please call
Sonic-Shield at 888-769-0766 or on-line at
www.sonic-shield.com



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PRODUCT SPECIFICATIONS

Product name	Thickness (mm)	Panel size		
		Length (mm)	Width (mm)	Approximate weight (kg)
Reapor® 25/625625	25	625	625	2.5
Reapor® 25/1200625		1200		5.0
Reapor® 50/625625	50	625		5.0
Reapor® 50/1200625		1250		10.0

Tolerances: Dimensions ± 0.5 mm, Density: $\pm 10\%$

MATERIAL PROPERTIES

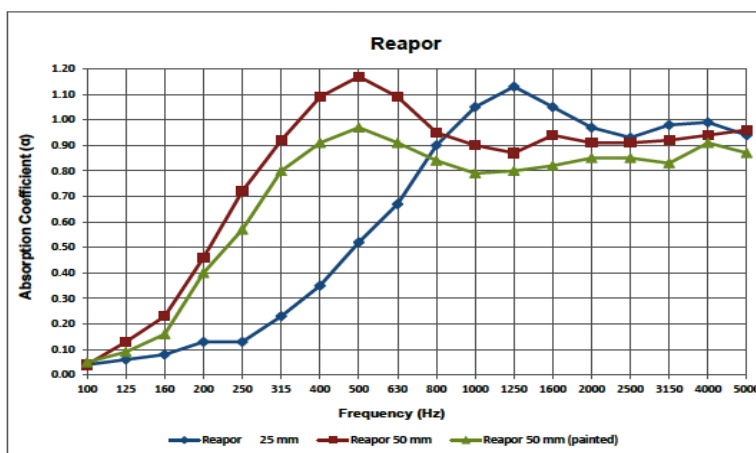
Test method	Property	Results	
DIN 1164	Compressive Strength	1.2 N/mm ² ($\pm 10\%$)	
DIN 1164	Flexural Strength	0.5 N/mm ² ($\pm 10\%$)	
DIN 1048-5	Elastic Modulus (Dynamic)	760 N/mm ² (± 80 N/mm ²)	
DIN 52612	Thermal Conductivity	0.08 W/mK	
AS/NZ 3000-2007 (Report no. 9765)	Electrical Conductivity	Non-Conductive	
DIN 4102	Fire Resistance	Non-Combustible A1	
AS1530.1 / ISO 1182 (Report no. NC7567-C11639)	Fire Resistance (AS)	Non-Combustible	
AS1530.1 / ISO 1182 (Report no. FNC11641)	Fire Resistance (as system with Pyrotek CB Adhesive)	Non-Combustible	
AS1530.3 (Report no. 16-000832)	Method for fire tests on building materials, components and structures	Ignitability	0
		Spread of flame	0
		Heat evolved	0
		Smoke developed	1
ASTM D5116 (Report no. CV130829)	TVOC Specific area emission rate	0.026 mg/m ² /hr	
ASTM D5116 (Report no. CV130829)	Formaldehyde compound emission rate	<0.005 mg/m ² /hr	

ACOUSTICAL PERFORMANCE

Frequency (Hz)	25 mm	50 mm	50 mm painted
100	0.04	0.04	0.05
125	0.06	0.13	0.09
160	0.08	0.23	0.16
200	0.13	0.46	0.40
250	0.13	0.72	0.57
315	0.23	0.92	0.80
400	0.35	1.09	0.91
500	0.52	1.17	0.97
630	0.67	1.09	0.91
800	0.90	0.95	0.84
1000	1.05	0.90	0.79
1250	1.13	0.87	0.80
1600	1.05	0.94	0.82
2000	0.97	0.91	0.85
2500	0.93	0.91	0.85
3150	0.98	0.92	0.83
4000	0.99	0.94	0.91
5000	0.94	0.96	0.87
NRC	0.65	0.95	0.80
SAA	0.67	0.91	0.79
α_w	0.45 (MH)	0.90	0.85

Tested to ISO 354:2003 at Research Institute of the City of Vienna & University of Canterbury, New Zealand.
Report Number: MA 39 - VFA 2007-1277.01, 140 & 141.

Building Code	NCC : 1	ISO 5660, AS/NZ 3837 (Report no. FH5964-TT)
	NZBC : 1S	



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