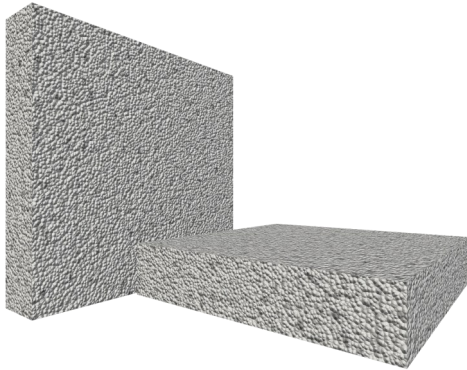




Eco-Friendly Outdoor Sound Absorber



Reapor® - The sound absorber for challenging environments. **Reapor** was developed to maximise noise energy absorption, and resolves issues of fire, weather aging and contamination damage. Simply maintained, constructed from recycled material, and VOC free, **Reapor** panels are easily fixed and worked.

Reapor uses recycled glass as its core component, and by nature, is sensitive to the environment. During manufacturing, the glass is processed to form expanded granules. Each granule acts as an acoustic absorber in its own right.

Through a heating process the granules are fused together to form a homogenous panel which creates a highly efficient acoustic absorber. This process removes the need for binders leaving the product free from out-gassing, developing smoke in a fire and breakdown through binder failure, giving the product the highest non combustible fire rating.

Reapor has a wide range of applications where effective noise reduction is required in outdoor applications or indoor areas of high humidity or fire concerns. Its natural resistance to moisture ensures it will not significantly retain or absorb moisture, unlike traditional porous or open-cell materials.



Reapor panels are bonded using adhesive or mechanically fixed depending on the application and substrate. The panels can be machined and processed using standard wood working equipment and dust protection. **Reapor** panels can be easily painted with water based paint, rendered for a seamless finish or routed to provide varying texture and shadowing effects.

APPLICATIONS

- Outdoor weather affected areas
- High fire safety areas
- Tunnels, vent shafts and exits
- Machinery enclosures
- Schools, hospital, aged care
- Wet areas, car washes
- Plant rooms, substations
- Pools, spas
- Rail tunnels, transport depots
- Interiors: plain, painted or rendered
- Exit ways, smoking areas, stairwells
- Airports, stations, parking exits
- Road barriers, exterior plant fences
- Swimming pools

FEATURES

- Resists weather, water and UV pollution over a extended period of time
- The NRC of a 50mm panel is .90 which is exceptionally high for an outside absorber
- Non combustible
- Easily installed to a C channel making fixing quick and easy or adhesive fixed
- Resistant to chlorides and potassium therefore will survive without further protection in coastal areas
- Fibre free and requires no additional treatment to maintain performance
- Made from 100% recycled glass carrying a very high green rating
- Easy to cut shape to allow for penetrations

Refer to our website www.pyroteknc.com to check you have the latest information page

PRODUCT SPECIFICATIONS

PRODUCT NAME	THICKNESS	TILE SIZES			DENSITY
	(mm)	Length (mm)	Width (mm)	Approximate Weight (kg)	kg/m ³
REAPOR 25/625625	25	625	625	2.5	270
REAPOR 25/1200625		1200	625	5.0	
REAPOR 50/625625	50	625	625	5.0	
REAPOR 50/1200625		1200	625	10.0	

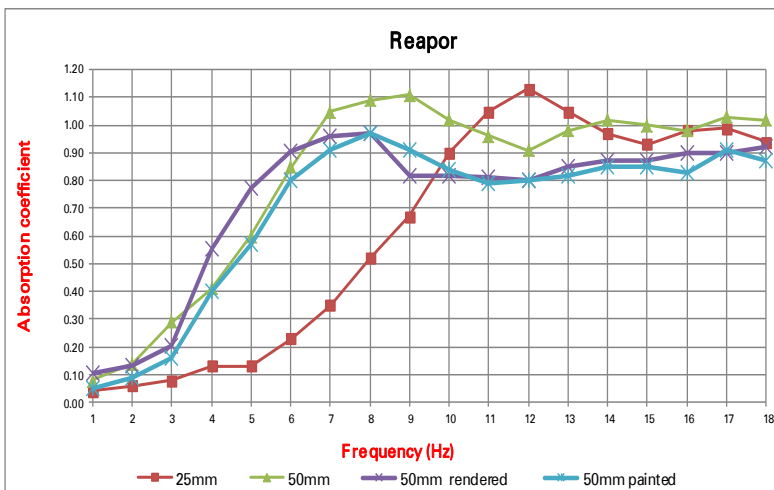
REAPOR PROPERTIES

PROPERTY	REAPOR 25/50mm	TEST METHOD
Compressive Strength	1,2 N/mm ² (± 10%)	DIN 1164
Flexural Strength	0,5 N/mm ² (± 10%)	DIN 1164
Freeze-thaw Resistance	0,25 Loss in M%	DIN 12091
Elastic Modulus (Static)	760 ± 80 N/mm ²	DIN 1048-5
Elastic Modulus (Dynamic)	1.020 ± 50 N/mm ²	DIN 1048-5
Water Vapour Diffusion Resistance	25 g/m ² /d	DIN 52615
Thermal Conductivity	0,08 W/mK	DIN 52612
Fire Resistance	Non-Combustible A1	DIN 4102

SOUND ABSORPTION

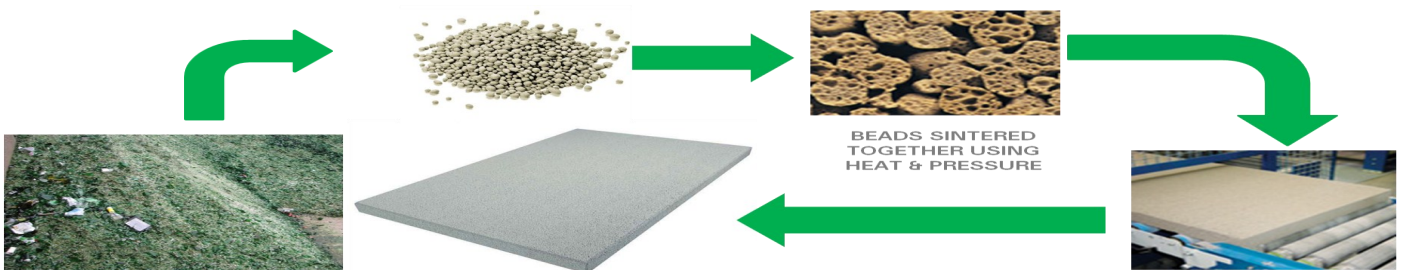
EN ISO 354: 2003 Report MA 39-VFA 2007-1277.01 for 25mm ; DIN EN ISO 354: 2003 Report P-BA 147/2005 for 50mm Fraunhofer-Institut Stuttgart

Frequency (Hz)	25 mm	50 mm	*50mm rendered	**50mm painted
100	0.04	0.08	0.10	0.05
125	0.06	0.14	0.13	0.09
160	0.08	0.29	0.20	0.16
200	0.13	0.41	0.56	0.40
250	0.13	0.60	0.77	0.57
315	0.23	0.85	0.90	0.80
400	0.35	1.05	0.96	0.91
500	0.52	1.09	0.97	0.97
630	0.67	1.11	0.82	0.91
800	0.90	1.02	0.82	0.84
1000	1.05	0.96	0.81	0.79
1250	1.13	0.91	0.80	0.80
1600	1.05	0.98	0.85	0.82
2000	0.97	1.02	0.87	0.85
2500	0.93	1.00	0.87	0.85
3150	0.98	0.98	0.90	0.83
4000	0.99	1.03	0.90	0.91
5000	0.94	1.02	0.92	0.87
NRC	0.70	0.90	0.85	0.80



*Tested at Canterbury University, NZ - ISO 354:2003 08/02/2011
 **Tested at Canterbury University, NZ - Report No. 141 dt 12/08/2010

Reapor: From recycled glass to finished panel. A unique product and process.



Caveats: Specifications are subject to change without notice. The data in this document are typical of average values based on tests by independent laboratories or by the manufacturer and are indicative only. Materials must be tested under intended service conditions to determine their suitability for purpose. The conclusions drawn from acoustic test results are as interpreted by qualified independent testing authorities. Nothing here releases the purchaser/user from responsibility to determine the suitability of the product for their project needs. Always seek the opinion of your acoustic or mechanical engineer on data presented by the manufacturer. Due to the wide variety of individual projects, Pyrotek NC is not responsible for differing outcomes from using their products. Pyrotek disclaims any liability for damages or consequential loss as a result of reliance solely on the information presented. No warranty is made that the use of this information or of the products, processes or equipment to which this Information Page refers will not infringe any third party's patents or rights. DISCLAIMER: This document is covered by Pyrotek standard Disclaimer, Warranty and © Copyright clauses. See www.pyroteknc.com/disclaimer.

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Pyrotek
noise control