EMBELTON
NOISE AND VIBRATION ISOLATION

QuietstoneLight™

Sustainable, versatile sound absorbers.

Rigid, lightweight panels for harsh environments

QuietstoneLight is made from upcycled glass. This is the glass that could not be recycled and would otherwise go to landfill. It is processed to form expanded glass beads and the beads are then bonded together. The result is a porous panel with sound absorption like a fibrous material, but with the added benefits of being weather resistant, easy to cut, non fibrous, inert and sustainable.

Advantages

- High sound absorption
- Group 1 fire compliant
- Weather resistant
- Lightweight
- Non fibrous
- Non toxic and VOC free
- Long life span
- Sustainable
- Easy to cut on site
- Self bearing
- High durability
- Won't show efflorescence
- Can be simply mechanically fixed

Applications

- Absorptive noise barriers
- Base for seamless acoustic plaster finishes
- Outdoor areas
- Swimming pools, spas
- Sports halls
- Ducts
- Health care
- Animal enclosures
- Plant enclosures
- Site noise
- Facades
- Outdoor generators
- Machinery enclosures
- Train stations
- Smoking areas
- Schools
- Childcare

Physical Properties	
Standard Thickness	25 & 50mm
Width	600mm
Length	1200mm
Weight at 25mm	8kg/m²
Colours	Panel can be painted without effecting performance
Other sizes are available on request	

T: 1800 339 638

www.embeltonengineering.com

QuietstoneLight™

Installation

Working with QuietstoneLight

One of the many advantages of **Quietstone**Light is the ease of installation. Panels can be worked using normal woodwork equipment and a dust mask.

Installation can be achieved using either adhesive or mechanical fixing depending on substrate and setting. The rigidity of the panels provides much greater durability and reduces system price due to ease of installation.

As Quietstonelight can be fitted with mechanical fastenings, fixing on battens is easy it will increase acoustic performance, allow for an uneven sub-straight and prevent any condensation issues.

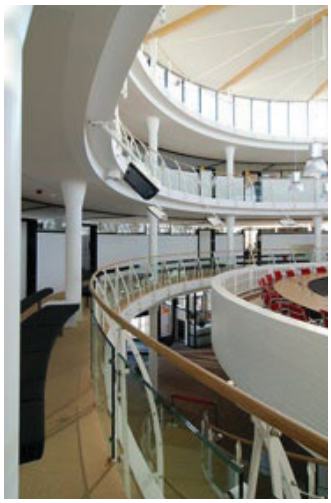
A range of fixing methods are available. Please refer to **Quietstone**Light's Installation guide for further information.

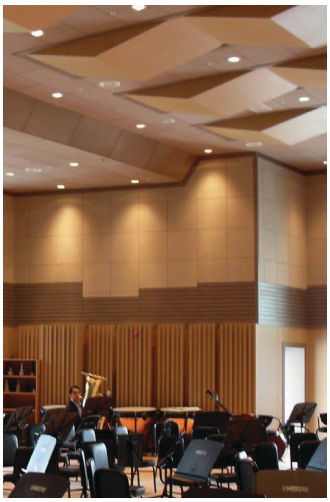
Improving Noise Barriers

QuietstoneLight makes a perfect addition to noise barriers. pre-installed reflective noise barriers can be made absorptive by simple fixing the panels to them. The panels are resistant to weather, impact, animal infestation and have a long lifespan without any additional treatment.

Acoustic Plaster For A Seamless Finish

A specialist acoustic plaster can be used to provide a seamless, monolithic appearance. Very easy to use, the plaster comes in 3 grades, fine, medium and coarse. Produced as standard white but can be tinted to suit colour requirements.





Technical Information	
Fire Safety	BS476: Part 6: 1989 - Class 1 BS476: Part 7: 2007 - Class O AS1530.3:1999 0, 0, 0, 1. Results AS/NS 3837:1988 Group 1 (Does not ignite) Compliant
Moisture Resistance	Will not sag or stain as a result of moisture exposure, no efflorescence.
Acoustic Performance	Sound absorption data provided by the University of Salford, School of Computing, Science and Engineering. Tested to the BS EN ISO 354: 2003 standard

Mounting Parameters	Sound absorption coefficients α_p						EN-ISO 11654 α_w	Comments relating to EN ISO 11654:1997 reference curve
	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz		
25 mm, 50 mm air gap	0.10	0.30	0.75	0.85	0.65	0.90	0.60 (M)(H): class C	Higher by at least 0.25 in 2 frequency bands
25 mm, 50 mm Rockwool 80Kg/m²	0.55	1.05	1.10	0.90	0.80	0.90	0.90 (L): class A	Higher by at least 0.25 in 1 frequency bands
50 mm, flush	0.10	0.35	0.85	0.95	0.85	0.85	0.65 (M)(H)(H): class C	Higher by at least 0.25 in 3 frequency bands
50 mm, 25mm air gap	0.20	0.65	0.90	0.90	1.00	1.00	0.85 (M)(H)(H): class B	Higher by at least 0.25 in 3 frequency bands