

# Quietstone Light

For Isolation of Airborne Noise

## APPLICATION

QuietstoneLight tiles are a rigid, durable absorber made from recycled glass. The material is suitable for external use, indoor use and settings which require high impact resistance and sound absorption. Panels can be either mechanically fixed and/or bonded.

This unique combination of qualities allows for QuietstoneLight to be simply installed without further treatment or protection making it extremely cost effective when calculating overall site costs.

Typically used absorptive noise barriers, providing noise attenuation for outdoor areas, swimming pools, spas, sportshalls, train stations, schools and childcare.

## FEATURES

- High sound absorption
- Sustainable, made from upcycled glass
- Weather resistant
- Group 1 fire compliant
- Non-toxic and VOC free
- Won't show efflorescence like sintered panels



50MM QUIETSTONE LIGHT PANEL

## PRODUCT GUIDE

Physical Properties	
Standard Thickness	25 & 50mm
Width	600mm
Length	1200mm
Weight at 25mm	8kg/m <sup>2</sup>
Colours	Various options available
Other sizes are available on request	

## TESTING

Technical Information	Fire safety
Fire Safety	BS476: Part 6: 1989 - Class 1 BS476: Part 7: 2007 - Class O
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 $\alpha_p$						EN-ISO 11654 $\alpha_w$	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/m <sup>2</sup>	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

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## INSTALLATION GUIDELINES

Quietstone Light tiles can be mechanical installed using a range of fixing types, dependent on substrates, fixed within channel extrusions, suitable screws/washers and/or adhesive bonded.

The tiles can be machined, cut, or drilled using standard carpentry equipment which enables fitting around penetrations or obstructions.

When used in outdoor settings where potential exposure to high weather, a flashing should be considered to reduce migration of moisture to the rear of the tiles, with the bottom tiles installed to allow for drainage and or to prevent the wicking of water.

## FINISH

Quietstone Light panels are supplied as standard and are suitable for most weather conditions. A range of painted or treated finishes can be supplied to order.

## TECHNICAL ASSISTANCE

Please contact Embelton for further assistance on the use of this product in specific applications.

## CONDITIONS OF SALE

These products are sold subject to the published Embelton General Conditions of Sale, copies of which may be inspected on request.

## SPECIFICATION

Specifications are subject to change and the latest data should be confirmed. Materials must be tested under proposed usage conditions to determine they are fit for purpose. The technical information presented is typical of average values and are indicative only. The purchaser/user should determine the suitability of the product for their application or project. When reviewing a project, seek the opinion of a suitably qualified professional engineer on data presented to ensure the product is suitable.

Embelton is not responsible for differing outcomes when using their products and therefore disclaims any liability for damages or consequential loss because of reliance solely on the information presented due to the diverse nature of projects.