

## Acoustic tunnel Lining.

### What makes **QUIETSTONE** DIFFERENT?

#### **We manufacture unrivaled products for environmental acoustics and tunnels.**

The demands on materials in tunnels, including high fire safety, impact resistance, ease of installation, weather resistance and non toxicity make finding a sound absorption material very difficult. We can offer products which meet these requirements.

#### **Our products can be tailored to meet your needs.**

Quietstone FMS for example, was designed specifically for a project which required high sound absorption, heat resistance to 1150°C, high durability and protection to services behind, all in one standalone panel. We can alter sizes to fit engineers mounting parameters and mould to specific shapes when necessary.

## Products

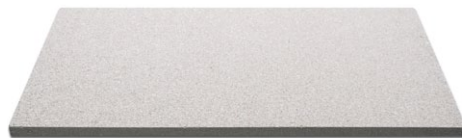
### **Quietstone<sup>®</sup>**

Rigid sound absorption panels, durable enough to be mounted without covering. Non combustible and impervious to the elements. Can be pigmented to suit the environment.



### **Quietstone FMS<sup>®</sup>**

All the features of Quietstone, but capable of withstanding temperatures of up to 1150°C. Suitable for protecting services behind in the event of a fire.



### **Quietstone Light<sup>®</sup>**

Rigid, lightweight sound absorption panels made from recycled glass. Non combustible, easy to cut and impervious to moisture and frost.

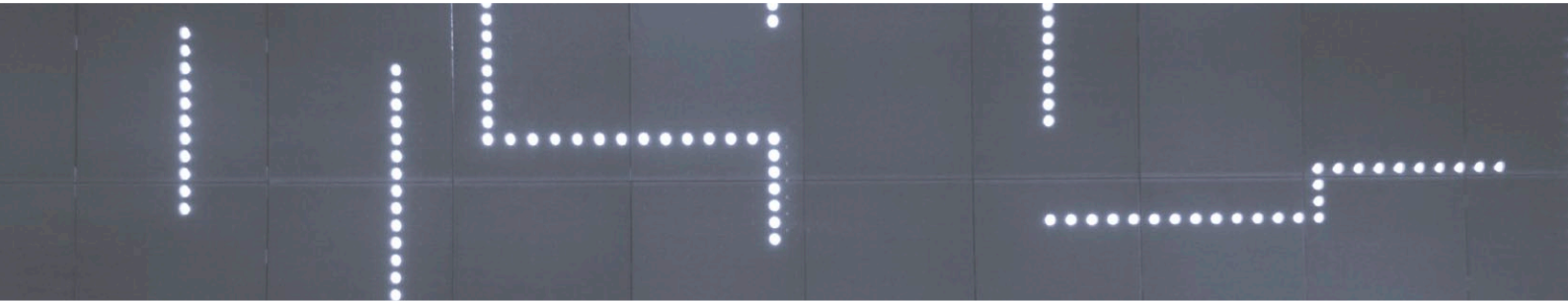


**SOUND ABSORPTION UK LTD.**

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## Projects

### A4 Burgerveen, Netherlands

This is our largest tunnel project to date. 30,000m<sup>2</sup> of Quietstone FMS are to line this tunnel which has ceiling sections cut out, exposing nearby residents to noise from the road. Our panels will be supported by a steel structure and are also required to protect services behind in the event of a fire. Quietstone FMS was designed as a bespoke sound absorber for this project and has now become a standard product.

Material used: **Quietstone FMS<sup>®</sup>**



### Epping to Chatsworth rail tunnel, Australia

25Km of Quietstone was used between the rail tracks to reduce noise build up as a result of rolling noise generated by the train wheels and track. The panels were moulded to form 'feet' underneath providing high sound absorption and a suitable height for workers to walk across.

Material used: **Quietstone<sup>®</sup>**



### Dublin Port Tunnel, Ireland

Noise build up caused by hard, reflective surfaces of the tunnel interior was controlled with the use of Quietstone. As the tunnel is used by many large lorries, a lining material needed to be able to sustain the pressure changes as vehicles enter the tunnel. As Quietstone has an inherent flexibility, it can move in sympathy with these kind of pressures.

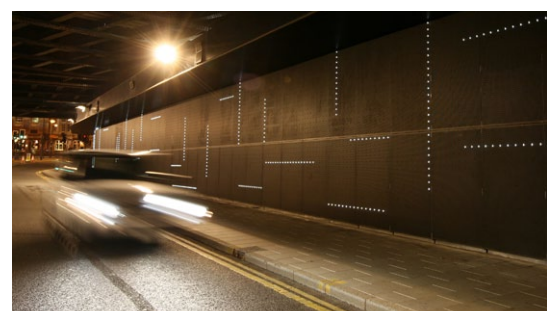
Material used: **Quietstone<sup>®</sup>**



### Neville Street, Leeds, UK

As part of a brave investment to provide a gateway to the City of Leeds, Quietstone light was moulded into perforated metal caskets which also housed LED lights to create a unique aesthetic appeal. A sound system was also installed to play urban music as passengers drive through. Our material helped in reducing noise levels from traffic and creating suitable acoustics for the music in a usually hostile environment.

Material used: **Quietstone Light<sup>®</sup>**



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