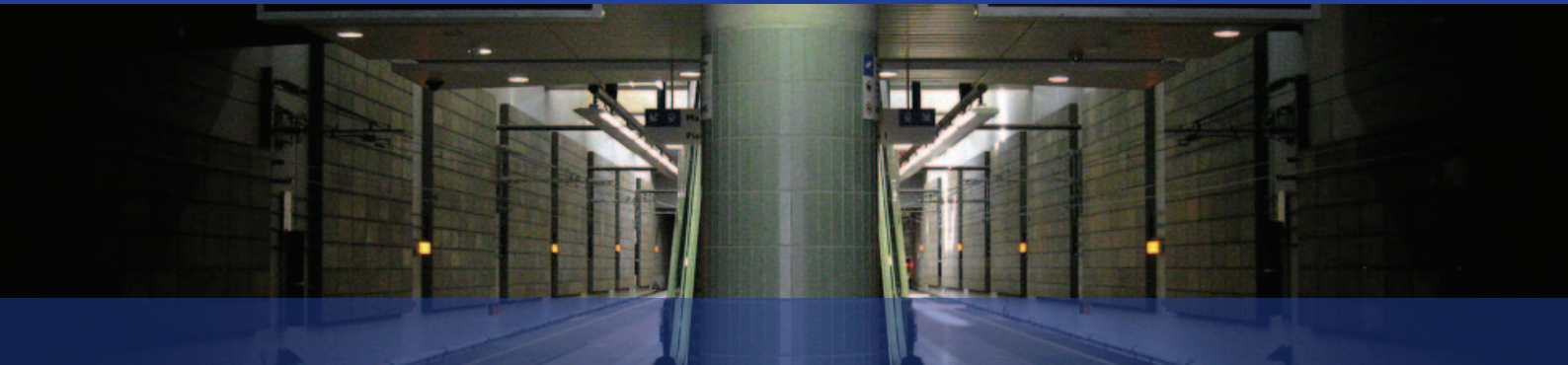


Innovative Acoustics



Project:
Esplanade Train Station, Perth, Australia



Noise control in an acoustically hostile environment

Project:

Esplanade Train Station, Perth, Australia

Material:

Quietstone



Noise reduction in an acoustically hostile environment

Increased attention is being paid to acoustics in train stations. The materials necessary for function are generally hard, reflective surfaces with little absorption to prevent ambient noise build up. When you introduce the noise from trains, general activity and a PAVA system, this can lead to an acoustically hostile environment.

More importantly than this, in the event of an emergency it is vital that speech intelligibility is sufficient to allow members of the public to hear important safety messages clearly.

Quietstone wall panels are suitable for use in this environment as they are far more durable than other stand alone options, have high fire safety rating and are also non toxic or fibrous.

In Esplanade station, the panels were mounted on an aluminium frame which provides an air gap to the rear of the panels. This greatly increases the sound absorption, particularly in the low frequencies, but also provides protection for any services behind.

Installation

The panels were installed on a simple aluminium framework, the type typically used for facade mounting. This framework was fast to install and the panels were attached using Tek, self-drilling screws. This leads to rapid installation as there are no need to pre-drill holes and once the panels are up, mechanical fixings are 'plugged' with the same material to hide the holes. Smaller panels were also installed to hide fixings to the side.



A simple aluminium frame is fixed to the wall.



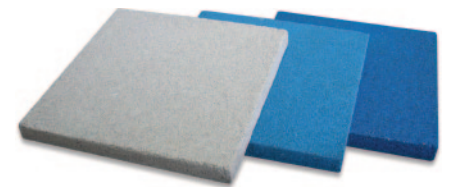
Panels are attached to the frame with Tek, self-drilling screws.

Advantages

- High sound absorption
- Non combustible
- Weather resistant
- Self bearing
- Easily cut on site
- Bespoke sizes available

colours

We can match most RAL colours with our pigments



Smaller panels installed at the sides to hide fixings. Plugs of the same material hide the screw holes.

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