



Quietstone wall panels are clearly visible down either side of the rail tracks.

## Esplanade Station, Perth, Australia.

Noise reduction in an acoustically hostile environment.

Quietstone wall panels were used to reduce ambient noise build up and improve speech intelligibility, an essential factor in areas where public announcement systems are in operation for safety.

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 PA/VA 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.

During Installation. Aluminium framework is still visible.



### Advantages of using Quietstone

- |                         |  |
|-------------------------|--|
| • High sound absorption |  |
| • Non toxic             | will not release harmful fibers or toxins                            |
| • Weather resistant     | impervious to frost and rain   |
| • Durable               | can withstand impact, strong pressure changes and be cleaned         |
| • Ease of installation  | their durability means these panels can be mounted without coverings |
| • Non combustible       | As in any public space, fire safety is of utmost importance          |

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