

CASE STUDY GOLD COAST CONVENTION & ENTERTAINMENT CENTRE

DURRA™

A challenging project with a highly complex roof geometry. A Land Mark 14,000m² Project for Queensland and the Gold Coast. With this project being in close proximity to residential areas, acoustic design was critical. The building had to perform both as a sound proof shell, while at the same time delivering a high degree of internal noise reverberation control for concert performances.

Speed of construction was again an essential element for the fast track nature of this project.

Ortech presented a high performance engineered acoustic roof/ceiling and wall system solution that was specifically designed for the project. A system that would stop break out noise while at the same time deliver internal reverberation control equal to symphony concert halls.

The challenge again was how to install the acoustic ceiling system quickly without the need for expensive and restrictive internal scaffolding at a height of almost 40m above ground level. The Durra Lifting Frame installation method solved these problems.

With the magnitude of this project it was not possible to site measure the Ortech product dimensions. All Ortech products were manufactured from computer generated models even before primary steel work was erected in order to compress the build time.

The Ortech products were delivered to site and assembled into large modules at ground level. Completed modules were then crane hoisted into position and bolted to the primary structure. The Durra Panel ceiling was then used as a work platform while metal roofing was fixed to the Durra Beams.



Building System

- Ortech Trafficable Roof and Ceiling
- Durra Acoustic Wall

Project Size

- 14,500m²

Ratings

Roof and Ceiling

- STC 53
- NRC 1.05

Wall

- STC 53
- 0.49

Benefits

- Pre-finished and delivered to site
- High thermal insulation
- High acoustic performance
- Reduce time and costs
- Enhance worker safety
- Low maintenance cost



Durra is a Registered Trademark of Ortech Industries.

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