

CASE STUDY

CENTRAL CITY STUDIOS

DURRA™

The challenge was to design and build a state-of-the-art, high performance film, and television studios in a very challenging construction environment.

The studio land was situated on the Yarra River flood plain with no solid foundation material to work with. Further, a multi-lane express way was located next to the proposed complex at roof level. A high performance and light weight acoustic shell was to be the key to a successful project outcome.

The project design team specified the use of Ortech Acoustic Ceiling and Durra Wall Systems, to form an acoustic 'envelope' throughout each studio complex.

This proved to be an innovative and lightweight acoustic solution that field tested to perfection - an NR 15 filming environment despite heavy trucks, cars and buses passing by at roof level during the film shooting process.

The Ortech Acoustic Ceiling System comprised of two Durra Panel acoustic membranes in a disconnected configuration with internal cavity damping. The resultant acoustic performance was the equivalent of some 60cm (24") of solid concrete.

The Durra Acoustic Wall System comprised a single layer of Durra Panel in a disconnected format from precast concrete with cavity damping.

Central City Studios in Docklands is a Landmark Project for the state of Victoria and an excellent example of innovative acoustic design.



Building System

- Ortech Acoustic Roof and Ceiling
- Durra Acoustic Wall

Project Size

- 26,000m²

Ratings

- STC 60 - 70+
- NRC 0.95
- NR 15

Benefits

- Enhanced worker safety
- Compressed build time
- Reduced construction costs
- Eliminates Birdcage scaffolding
- High performance reverberation & low noise frequency control
- Thermal insulation
- Impact Resistance
- Low Maintenance



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www.ortech.com.au

ortech@ortech.com.au

Ortech Industries Pty Ltd

Unit 18, 1-7 Canterbury Rd
Braeside VIC Australia 3195

Tel: +61 3 9580 7766

Fax: +61 3 9587 1628