

## CASE STUDY

# HILTON HOTEL - M. AIRPORT

# DURRA™

The construction of a multi storey Hilton Hotel next to the Melbourne International Airport Terminal was a challenge to all. The project brief was to build the quietest Hilton in Australia, in one of the country's most severe acoustic environments.

The project design team specified the use of an Ortech high performance Roof and Ceiling System to stop low frequency aircraft noise from entering the internal building environment.

The Ortech Acoustic Roof System was installed using the Durra Lifting Frame. Durra Panel ceiling modules of 90m<sup>2</sup> in area were assembled at ground level and crane hoisted onto the primary steel roof structure, twelve storeys in the air.

The Durra Panels were supplied with a weather resistant finish to further enhance the practical usage and convenience of this system during the building process.

The construction of completed ceiling system modules at ground level eliminated the need for extensive and costly on site birdcage scaffolding. With the majority of work being undertaken at the ground level, contractors risk issues were minimised. The trafficable nature of the Durra System greatly enhanced the issue of a safe workplace environment during the construction process.

The correct choice of building materials and construction techniques is of vital importance when considering design of a building located in an airport environment. The external isolation of low frequency noise generated by aircraft on take off and landing is a must to ensure a successful, livable project.



### Building System

- Ortech Trafficable Acoustic Roof and Ceiling

### Project Size

- 5,200m<sup>2</sup>

### Ratings

- Rw 52

### Benefits

- Enhanced worker safety
- Compressed build time
- Reduced construction costs
- Eliminates Birdcage scaffolding
- High Acoustic performance
- Isolate Low noise frequencies
- High Thermal insulation



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