

Case Study



CARDNO Fit-out, Brisbane Green Square North Tower Sound Escape System

Building type and overview

Green Square North Tower is a 12 storey, 23,800m² office building that achieved a 6 Star Green Star – Office Design v2 rating representing World Leadership in Environmental Sustainability. The CARDNO Fit-out spans 4 levels (9-12) of the Green Square North Tower and utilises a 4 level, non-isolated, interconnecting stairwell.

Challenges

- Prevent occupants using the non-isolated stair in the event of an evacuation.
- Guide occupants to the correct fire isolated stairs in the event of an evacuation.

Solution

- Install Clevertronics *Sound Escape* system, an emergency lighting system in which the exit signs incorporate directional sound enabling faster evacuation of occupants and better utilization of fire isolated stairs.
- A *Sound Escape* EXIT sign has been positioned at each fire isolated stair exit on each of the 4 levels. 2 *Sound Escape* Exit signs per floor, 8 in total.
- *Sound Escape* has been interfaced to the building's fire detection and EWIS systems to activate the directional sounders in the event of an alarm. The *Sound Escape* Exit signs are an integrated part of the Zoneworks, addressable, emergency and exit lighting system installed throughout the building.

Results

- The CARDNO fit-out utilises *Sound Escape* as part of an Engineered Solution to cater for the 4 level, non-isolated, interconnecting stairwell.
- This Engineered Solution is cost effective because the *Sound Escape* Exit signs are an integrated add-on to the Zoneworks Emergency Lighting System installed throughout the building.
- The *Sound Escape* Exits and emergency lighting system are automatically tested and capable of real time off site monitoring thus further enhancing compliance and safety features.