

CASE STUDY 1.

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. Two 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.

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