

# Case Study

## The Background

**Uniting Aldersgate is a comforting aged care home in Lilyfield, in the heart of Sydney's vibrant inner west.**

**GHD was appointed by Stephen Edwards Constructions to undertake a fire engineering assessment for this home.**

## The Challenge

An edge-case scenario had arisen regarding the location and usage of an external fire egress stairway due to the site constraints. The external stairs could become unsafe during fire scenarios involving the underground carpark and/or the bedrooms rooms near the egress. A solution was needed to assist in directing building occupants to an alternative exit.

## The Solution

GHD had developed a Fire Engineering Performance Solution design which utilised the functionality of the CleverEVAC exit signage system. In the scenario where a fire event occurred in the immediate vicinity of the stairwell, the Dynamic Signage helps to guide staff and residents towards an alternative exit, away from the affected stair, using both positive and negative reinforcement.

The research on dynamic signage carried out by the Fire Safety Engineering Group (FSEG) at the University of Greenwich, UK, was a contributing factor to the choice made by GHD engineers to include Dynamic EXIT signage to support the egress solution.

## The Result

The outcome of the solution was a successful application, installation, and commissioning of the CleverEVAC Dynamic EXIT signage solution. It had mitigated the need to undertake the additional design and remedial works which would have been required to address the edge-case scenario.

## Find Out More

**Uniting Aldersgate Aged Care is another quality project delivered by Clevertronics. If you would like further information about this case study or are interested in understanding more about Emergency and Exit lighting within your building, contact Clevertronics for a site audit, demonstration, and cost analysis report.**

### Project Name

Uniting Aldersgate Aged Care

### Location

Lilyfield, NSW, Australia

### Industry Application

Healthcare

### Project Type

Existing Emergency Lighting Upgrade

### Year

2021

### Owner

Uniting NSW.ACT

### Builder

Stephen Edwards Constructions

### Fire Safety Engineer

GHD

### Fire Services Contractor

PFS Herbet Xia

### Products Featured

CleverEVAC, Dynamic RED X, Dynamic GREEN, Cleverfit PRO