

Scion Group Limited.

## Scion Innovation Hub



### Project Summary

Scion's new Innovation Hub, Te Whare Nui O Tuteata, is believed to be a world first for a wooden diagrid structure of its size. The 2000m<sup>2</sup> office building comprises a ground floor cafeteria and reception with two levels of open plan office, all connected by an open atrium.

The building is of heavy timber construction with LVL beams and CLT floors, staircases, and lift shaft panels, with much of the timber exposed to view. The timber is selected to provide an inherent fire resistance rating sufficient to prevent fire spread or structural failure.

### Crossfire Value to Project

Crossfire developed a performance based design to assess the spread of fire and smoke throughout the building. Using Computational Fluid Dynamics Crossfire was able to assess the conditions within the building and provide a fire safety strategy to protect the life safety of occupants in the building.

Crossfire carries out assessments of fire severity within the building, and specified a fire resistance rating for the timber structure. Fire separations were specified within the building to limit the spread of fire throughout the wider facility.

Crossfire carried out construction monitoring to review the works and provided advice on passive fire solutions and worked with the construction team to develop buildable and effective details for fire separations.

Client  
**Scion Group Limited**

Architect  
**RTA Studio Ltd**

Date  
**Early 2021**

Project Value  
**\$18m**