

Balwyn Library Redevelopment



Photo provided by Croxon Ramsay

Client

City of Boroondara

Architect & Interior

Croxon Ramsay

Builder

Kane Construction

Budget

\$6.4 mil

Year

2016/2017

Project:

The original Balwyn Library was built and established in 1978 and was designed by Daryl Jackson, a significant Melbourne architectural practice. The extension and redevelopment of the 40-year-old building has created a contemporary library with enhanced services and community facilities. This also includes intelligent and energy efficient building services, while retaining its heritage features. The natural lighting and indoor air quality are improved. The work includes installation of a new green roof which forms a part of the vertical extension.

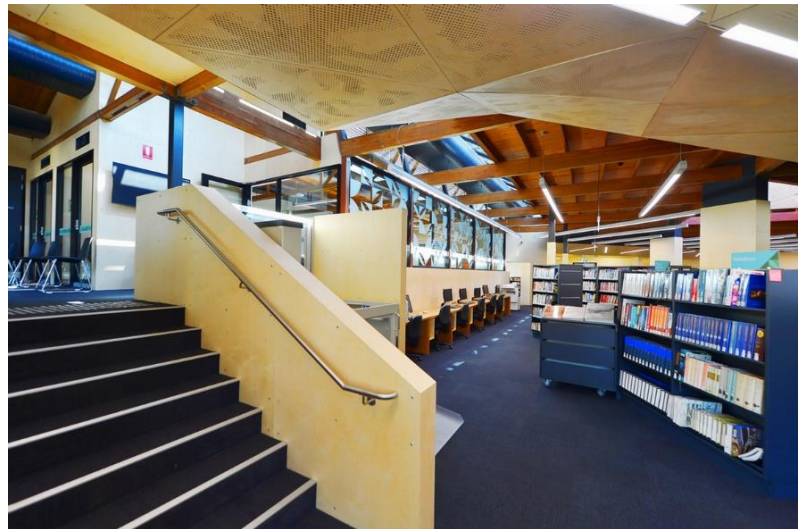


Photo provided by Croxon Ramsay

BE Contribution:

BE has provided its building services engineering to accommodate all aspects relating to services: aesthetic, functional, comfort and ESD regulations. This project sees the interface between Croxon Ramsay Architects and Braird Engineers across the whole building to the level of every detail. BE collaborated with complex architectural details especially the feature ceiling exposing partial existing timber roof and blending in modern geometry ceiling at changing levels.

BE designed a sophisticated building automation system (BAS) to provide a high level of comfort as well as minimising energy use. The lighting design has incorporated organic response lighting controls and energy efficient LED lighting. In addition to the normal use of harvested rainwater to irrigate and flush toilets, BE designed an automatic roof cooling system utilizing the stored rainwater.

BE's engineering solution also continuously evolves with the ever-changing building environments and regulations, while also incorporating the introduction of NBN telecommunication services and removal of existing essential services such as dedicated fire alarm.

Referees

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