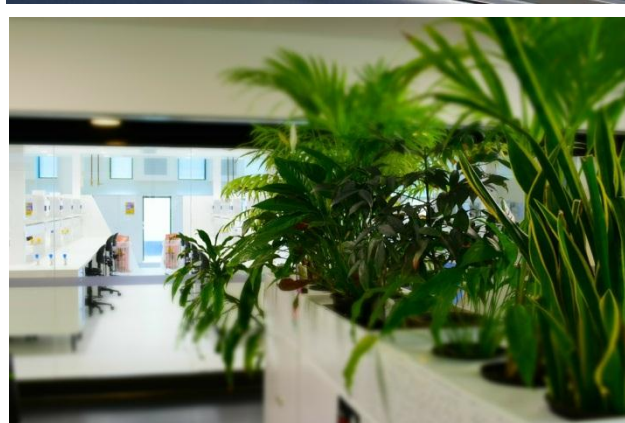
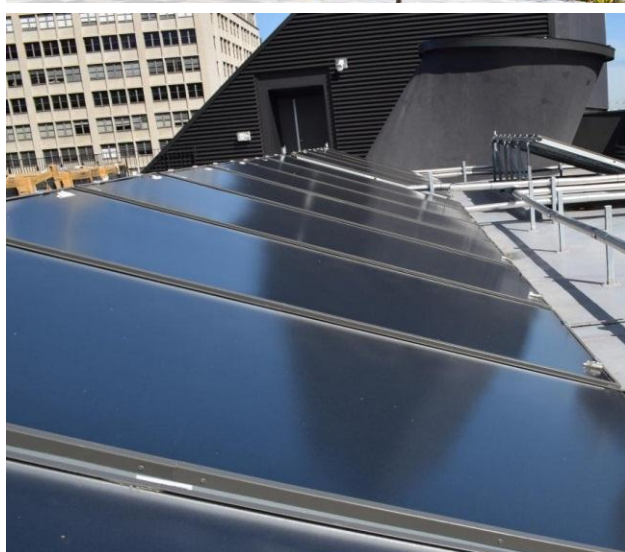
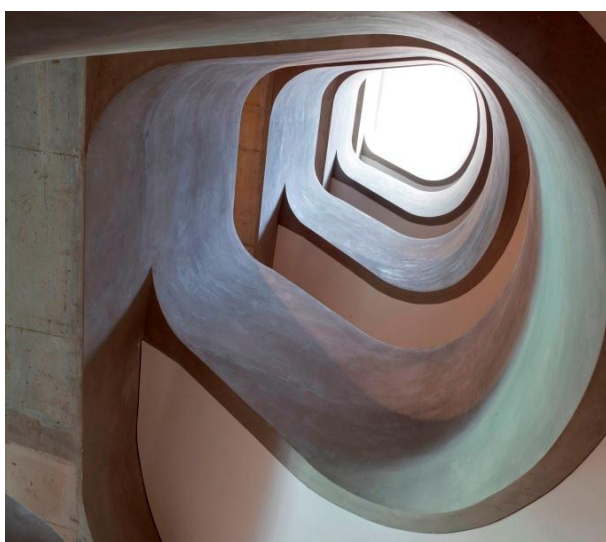


Faculty of Science and Graduate School of Health Building (CB07)



SUSTAINABLE DESIGN FEATURES

- Awarded a **6 Star Green Star Design** rating Certified by the Green Building Council of Australia.
- **Natural daylighting** provided via innovative architectural solutions e.g. portholes, skylights, oculus, light well.
- **High performance glazing**; insulated double glazing with low emissivity coating to reduce heat transfer.
- **Adjustable blinds** minimise glare.
- **Building cladding made from over 75% recycled glass.**
- **Energy efficient building services**; air handling units & fan coil units with Carbon Dioxide & Volatile Organic Compound (VOC) sensors, timers & individual controls. **Efficient floor displacement ventilation** in the lecture theatre.
- **Thermal labyrinth** around Library Retrieval System cools fresh air for supply to basement plant room, reducing running costs.
- Heated & chilled water supplied from CB01 **Central Thermal Plant.**
- **Roof-top solar hot water** technology.
- **Energy efficient LED & T5 lighting**, zoning & controls.
- **Highly visible internal staircases** function as “bump space” to connect people, reduce lift energy use & improve health & wellbeing.
- Energy & water sub-meters connected to **campus-wide Energy Management System.**
- The building is a “**living lab**”; students are able to access data from **meters & sensors** monitoring indoor air quality & part of the Level 8 roof is dedicated to tree research.
- **Real-time sustainability performance data linked to digital screens** in public areas.
- **Water bottle refill stations & drinking fountains** on every floor.
- **Water efficient fixtures** e.g. toilets, hand basin taps, waterless urinals.



SUSTAINABLE DESIGN FEATURES

- **Green roof** provides recreational space, insulates the building, improves air quality, provides habitat for plants & animals, & absorbs, filters & cleans stormwater run-off.
- **Rainwater capture, treatment & re-use** to supply the building's toilets, green roof & landscaping.
- **Capture, treatment & re-use of fire system test & maintenance drain-down water.**
- **Improved Indoor Environment Quality** through selection of materials, furniture, flooring, paints, adhesives & sealants & carpet with zero or low VOCs & use of composite wood products with zero or low formaldehyde content.
- **Low environmental impact flooring, joinery & loose furniture.**
- **Timber re-used, recycled or from certified sustainable sources.**
- **Steel sourced from environmentally responsible steel manufacturers.**
- **Green concrete**; a proportion of cement substituted with flyash (a waste product from power stations).
- **Polyvinyl Chloride (PVC) products avoided where possible.**
- **Zero Ozone Depleting Potential refrigerants & insulants.**
- **98% of construction waste recycled.**

PROJECT TEAM

OWNER

University of Technology, Sydney

PROJECT MANAGERS

Savills + University of Technology, Sydney

ARCHITECT

Bligh Voller Nield /
Durbach Block Jagers

ESD / GREEN STAR + MECHANICAL + ELECTRICAL

Steensen Varming

CONTRACTOR

Richard Crookes Constructions

FAST FACTS

SIZE

Gross Floor Area	13,800m ²
Useable Floor Area	8,900m ²
8 levels	3 basement + 5 floors + plant + roof

COST

Project cost	\$154M (includes Alumni Green + Library Retrieval System)
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DATES

Start date (demolition)	December 2007
Early works completion	October 2012
Main works completion	October 2014
Official opening	27 th April 2015

green building council australia



Education Design v1 2015