

CURTIN UNIVERSITY - BUILDING 204

DECK REMEDIATION AND WATERPROOFING

LOCATION

Bentley, Perth, WA

CLIENT

Hoskins Contracting

PROJECT MANAGER

Marc Cugini

DESCRIPTION

Building 204 of the Curtin University's Bentley Campus, which houses the Engineering General Facilities, experienced ongoing water ingress issues to the roof deck of level 3 of the building. The 60-year old deck, covering an area of approximately 206m², was leaking water into classrooms below and causing extensive damage to the classrooms and their contents.

Hoskins Contracting engaged the services of BUSS' to design and install a suitable waterproofing system that would solve the water penetration issues and protect against a reoccurrence.

BUSS completed demolition works to the deck area, this included the removal and storage of the fixed furniture, removal of the upper 40mm of topping of a double layer torch-on membrane and 70mm of structural topping. New overflows were then installed to the perimeter of the parapet wall, matching those of the surrounding buildings, as well as four new flange drains. Following the installation of a new structural topping, a five-layer waterproofing system was applied. Upon its' installation, the membrane was covered by a two-tone architectural granolithic concrete topping, with each slab section poured independently to prevent the topping from cracking. To suit the varied heights of the deck topping, new tapered flashing was instated and a deck access change, from stairs to ramp, carried out.

PRODUCTS USED

- Sikalastic 560
- New 36MPa Structural Topping
- New Granolithic Topping

POINTS OF INTEREST

- 15-year durability product warranty;
- Works completed via scaffolding system
- Project completed to tight schedule; and
- High level of public protection in place.



Fig.1 Completion of the five-layer waterproofing system



Fig.2 Concrete slabs - pour one, of two pours, completed



Fig.3 Newly completed deck refurbishment