



constructive solutions

CASE STUDY

High performance waterproofing for UQ's Herston campus

Herston, Queensland

CUSTOMER: DM2 Architecture
CONTRACTOR Concrete Seal and Waterproofing
SECTOR Education
DATE 2023

PRODUCTS

- Primer 24
- Proofex Torchseal A600
- Proofex Torchseal A825
- Nitoseal MB175
- Proofex Torchseal Pressure Seal Flashing



A triple-layer torch-on sheet membrane system provided a highly durable, UV-stable, long lasting waterproofing solution for the University of Queensland's Health Sciences building in Herston.

THE PROJECT

After more than a decade exposed to the elements, the existing bitumen waterproofing membrane covering the expansive roof of the Health Sciences building had deteriorated and required replacing.

THE SOLUTION

Fosroc ANZ recommended a triple-layer, torch-on sheet membrane solution using Proofex Torchseal A600 and Proofex Torchseal A825.

Step one: The existing waterproofing membrane was removed and the substrate ground back to bare concrete.

Step two: The roofing surface was primed with Primer 24 at a rate 0.13 litres per m2. The primer was left to dry for at least 30 minutes, until touch dry.

Step three: The first layer of Proofex Torchseal A600 was applied using a gas torch, maintaining at least a 100mm overlap between adjoining sections. Special attention was paid to ensure joints occurred in suitable locations. Nitoseal MB175 was used to seal terminations of the membrane.

Step four: A second layer of Proofex Torchseal A600 was applied to provide increased, longer lasting protection.

Step five: A top layer of Proofex Torchseal A825 was applied using a gas torch, again maintaining sufficient overlap between adjoining sections.

Step six: On completion of the membrane installation, all exposed perimeter edges were terminated under pressure seal flashing and sealed with Nitoseal MB175.

The entire process took a team of trained expert installers approximately one month to complete.

THE BENEFITS

The double layer of Proofex Torchseal A600 provided a durable, long lasting waterproofing solution, guaranteed for more than 15 years.

The Proofex Torchseal A825, with an upper side encrusted with a layer of grey slate granules, provided additional UV resistance ideal for this exposed rooftop.

The triple layer system, not only ensured a water tight roof but provided additional insulation for the building, reducing the energy consumption for heating and cooling.

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