



# SIKA AT WORK

## CARLAW PARK STUDENT ACCOMODATION CAMPUS

SEALING & BONDING: SikaHyflex-250 Façade

BUILDING TRUST



# CARLAW PARK STUDENT ACCOMMODATION CAMPUS



Early stage - preparations for where the façades will be placed



SikaHyflex-250 Façade was used for the joint sealant throughout the whole building



## PROJECT DESCRIPTION

The new University of Auckland student accommodation campus is located at Carlaw Park, adjacent to the Auckland Domain. The student accommodation campus has direct pedestrian connections to one of Auckland's most beautiful natural parks. With an abundance of generous open space in the Auckland Domain, private open spaces have also been designed between the campus buildings to strengthen the community/student realm for residents.

The 433 room development is designed as self catered, naturally ventilated apartment units in configurations of 2, 3 and 4 bedroom options. At the centre of the campus is a common lounge, study, laundry and games facilities building with basement car parking.

## PROJECT REQUIREMENT

The façade on this project is a new design from Warren and Mahoney which delivers higher movement capacity for seismic requirements.

This design features concrete precast panels and windows which are connected and made weathertight by a series of flashings, air seal and weather joint sealants. During the design process it was discovered that the currently specified **Sikaflex AT-Façade** would not deliver the movement capacity required for this unique façade design. This is despite the joints being detailed at between 20mm and 30mm wide!

The new **SikaHyflex-250 Façade** featuring +100/-50% movement capacity was offered as the solution. The joint sealant for this project is vital for the façade weather tightness whilst maintaining movement.

Because of this the façade system with **SikaHyflex-250 Façade** installed was tested at Aluminium Systems Ltd purpose build façade test booth to verify performance and suitability at extreme wind load pressure.

This successful testing was then backed up with detailed installation instructions from Sika with an installation quality assurance program agreed by all parties. The joint sealant installation was carried out by a Sika approved and trained contractor, MPM Waterproofing who have a long history of quality installation of Sika joint sealant and waterproofing. Watertight the Waterproofing People Limited also played a large role in this project.

The Carlaw Park Student Accommodation Campus project is the first commercial construction project to be completed in the Asia Pacific region with Sika's new **SikaHyflex i-cure** technology. **SikaHyflex-250 Façade** offers New Zealand's construction market greater piece of mind in seismic conditions and confidence of long term weather tightness.

## SIKA SOLUTION · SIKA PRODUCT

### ■ SikaHyflex-250 Façade

## PROJECT PARTICIPANTS

Developer/Main Contractor: Hayden & Rollett  
Product Specifier: Warren and Mahony, Mott MacDonald, Hayden & Rollett  
Consultant: Mott MacDonald  
Specialist Contractor: MPM Waterproofing  
Watertight the Waterproofing People Ltd  
Sika Organisation: Sika (NZ) Ltd

## SIKA (NZ) LTD

PO BOX 19192  
Avondale · Auckland  
1746 · New Zealand

## Contact

Phone 0800 745 269  
Fax 0800 745 232  
www.sika.co.nz

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