



SIKA AT WORK

RE-ROOFING OF THE NATIONAL ARMY MEMORIAL MUSEUM, NZ

ROOFING: Sarnafil® S327-20 L · Sika® UniBase · Sikalastic®-621 TC

NATIONAL ARMY MEMORIAL MUSEUM



The award winning National Army Museum is located in one of the most extreme weather regions of New Zealand.



Sikalastic-621 TC, part of the SikaRoof MTC System has been used to waterproof the stairwell.



Sarnafil and SikaRoof MTC systems on the Museum's roof.

PROJECT DESCRIPTION

The Museum is a dramatic, award winning structure, built next to the Army's main training base in the Central Plateau area of the North Island. Located only a few kilometers from three huge active volcanoes, it is subject to extreme weather conditions including heavy snowfalls in winter.

The Museum was designed to function as a memorial; to acquire, preserve and display aspects of New Zealand's military history; and to serve as a research and teaching facility, hence there is an extensive military hardware collection, including military vehicles, tanks and field guns from all over the world. The Museum is also involved in a range of military equipment restoration projects, assisted by an enthusiastic group of volunteers who help to preserve these historic military artefacts for future generations to enjoy.

PROJECT REQUIREMENT

For many years the main gallery of the Army Museum, has long experienced problems with water leaks. Considering the historic value of the Museum's collections, these leaks were causing considerable concern in both Army and Government circles. The suspect of the leaks were a combination of failing sheet rubber membrane, which had been over-coated with a failing liquid acrylic membrane.

SIKA SOLUTION

Sika Sarnafil and **SikaRoof MTC Systems** were the solution for the leaky roof. **Sarnafil S327-20 L** was installed through the existing membranes (1000m²) and into the timber purlins of the roof structure.

The advantages for the Museum included:

- No removal of the existing membrane, which meant that exposure to the weather was minimal and the exhibits would remain protected during installation
- Heat-welded seams, meaning that the laps of the membrane would not let go as the failing rubber membrane had
- Great thermal stability, especially at low temperatures, which was important for a site which gets heavy snowfalls in winter and an average temperature of just 9C.

SikaRoof MTC was used on the guttering (200m²) and also used to waterproof the walls of the stairwell and the treads of the stairs. An additional layer of **Sikalastic-621 TC** was installed with an aggregate cast into it, providing required slip resistance.

This project also allowed Sika to supply NZ's first installation of **Sika UniBase** pads, to isolate the new metal staircase from the Sarnafil membrane.

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