

## SIKA AT WORK NATIONAL ARMY MUSEUM ROOFING SOLUTIONS



**BUILDING TRUST** 

# NATIONAL ARMY MUSEUM, NEW ZEALAND

#### **PRODUCT DESCRIPTION**

The Museum is a dramatic, award winning structure, built next to the Army's main training base at Waiouru 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 snow falls in winter, strong winds and hot summer temperatures.



#### PROJECT REQUIREMENT

For many years the main gallery of the Museum, which houses irreplaceable valour medals, artifacts and displays, had experienced problems with water leaks. Considering the historic value and rarity of the Museum's collections, these leaks were causing concern in both Army and Government circles.

#### CHALLENGES

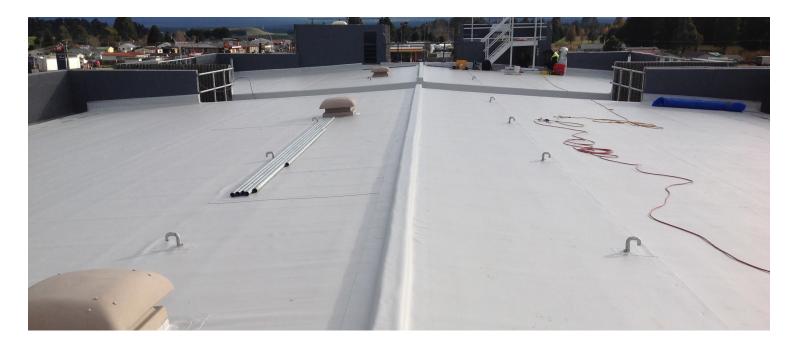
- Extreme weather conditions (application and curing at cold temperatures)
- Installation without disturbing the Museum's day-to-day activities
- A combination of liquid and sheet-applied options to allow for both tricky detailing and ease of installation







Before installation : National Army Museum



#### **SIKA SOLUTION**

The recommendation was to install mechanically fixed Sarnafil S327-20L through the existing membranes 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 priceless exhibits would remain protected during installation
- Heat-welded seams so 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 9°C

### **PROJECT SIZE** 1200m<sup>2</sup>

#### **PRODUCTS USED**

Sarnafil® S327-20 L SikaRoof® MTC 22 (Sikalastic-601 BC/Sikalastic-621 TC) Sarnafil® Walkway Pads Sarnafil® S-UniBase Sarnametal

#### **PROJECT PARTICIPANTS**

Product Specifier: Specialist Contractor: Sika Contact: Sika (NZ) Ltd Boot Mac Contracting Limited Jon Summers











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