



THE ARCHITECT HAD FAITH IN THE AGE-OLD, PROVEN METHOD OF TORCH-ON APPLICATION TO PROTECT THE SUB-STRUCTURE AND EXPOSED ROOF.

TORCH-ON PROTECTS HOME BELOW-GROUND AND ABOVE – EAST AUCKLAND

CHALLENGE: A NEW HOUSE WAS BEING BUILT IN AN EXCLUSIVE AUCKLAND SUBURB. THE HOUSE HAD BEEN DESIGNED BY A HIGH-PROFILE ARCHITECT, SO THE FINAL LOOK OF THE HOUSE WOULD NEED TO DO JUSTICE

TO THE ARCHITECT'S DESIGN FLAIR AND WATERPROOFING EXPECTATIONS. THE PROPERTY WAS IN AN EXPOSED COASTAL ZONE, SO THE ROOFING SYSTEM HAD TO DEAL WITH HIGH WINDS AND SALT SPRAY. THE DESIGN OF THE ROOF WAS

ALSO COMPLEX, WITH A SERIES OF CURVES AND UPSTANDS (ALL POTENTIAL LEAK POINTS), WHICH WOULD REQUIRE SOME ROBUST DETAILING.

Solution

The architect, builders and waterproofing applicators sought Viking Roofspec's expertise. The decision was made for both the roof and sub-structure to be waterproofed in modified bitumen membrane torch-on systems. Viking Bituclad two-layer torch-on was used for the roof, and Viking Bituclad4 torch-on for the sub-structure.

Viking Bituclad is a two-layer torch-on system comprised of a 3mm base-sheet and a 4mm thick mineral-chip cap-sheet. Viking Bituclad was chosen due to the fact that it is a tried and tested solution, having successfully waterproofed hundreds of buildings over the years. Viking Bituclad is ideal for coastal conditions, which was a necessity for the chosen roofing solution. The roof had a large amount of detailing, curves and upstands – areas which can be tricky to waterproof. Because Bituclad is torch-applied, it can be

easily manipulated by heat to waterproof these difficult areas. To add to this pristine finish, Bituclad in black was chosen, suiting the design of the rest of the house.

Bituclad's CodeMark certification was a source of further confidence to the owners and architect. It also made the process easier as a CodeMark certification assists specifiers and Councils by providing the highest level of assurance, reducing delays and additional information requests when submitting a consent application.

CodeMark certification means that compliance for the purpose of the building consent is guaranteed if Viking Bituclad is installed in accordance with the criteria of the CodeMark certificate.

Viking Bituclad4 was chosen as the tanking solution to waterproof the sub-structure. It is a blend of reinforced polyester and fiberglass APP (atactic polypropylene) modified bitumen –

torch-applied to a compatibly primed surface.

The architect had faith in the age-old, proven application method and at 4mm thick, was reassured by the high puncture resistance offered by the membrane.

As the tanking membrane would be covered with back-fill once installed, there was only one opportunity to get this right. The fact that Bituclad4 is torch-applied for maximum adhesion meant the owners were more confident in the membrane's impermeability.

Result

The age-old, proven methodology of using torch-on membranes for waterproofing above and below the ground, provided peace of mind, but at the same time, they had been tastefully installed. The aesthetically-pleasing roof provided satisfaction for the owners who were also reassured that the membrane systems had been backed by warranties of substance.

**Note : Viking Bituclad has now been replaced with Viking GM Gemini APP
Viking Bituclad4 has not been replaced with Viking GM Mercury FC**

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