



Taking care of detail

Re-roofing Solutions

Hassle free, watertight, membrane overlay solutions





When re-roofing you are faced with the decision whether to remove your old roof before having the new one installed, or overlaying over your existing surface...

Removing your current roof surface incurs labour costs to uplift and dump it (let alone the environmental impact of adding inorganic material to the local land-fill). Depending on the condition of the substrate, you may be in a position to install a new membrane system over your current roof surface thus avoiding these costs and concerns.



Membrane Overlay Solutions

The Viking re-roofing range of membrane systems allows you to install a new membrane over your existing one. This range includes:

Viking Enviroclad

Mesh-reinforced thermoplastic, heat weldable membrane which can be installed over existing butyl or liquid membrane surfaces;

Viking Enviroclad F.B.S. (Fleece-backed system)

Mesh-reinforced thermoplastic, heat weldable membrane with a 1.4mm factory-laminated polyester fleece-backing on its underside which is installed over old bituminous and malthoid roofs; and

Viking Epiclad FBS

EPDM rubber fleece-backed membrane with a 1.4mm factory-laminated polyester fleece-backing which is installed over old bituminous and malthoid roofs.



Cost-effective, hassle-free solution

Overlaying over an existing membrane means there are no costs involved in: stripping the current surface; redesigning, reconditioning or reconstructing the existing roof.

This also avoids the hassle of exposing the interior to adverse weather conditions while the overlay takes place.

Reduction in waste

In many instances, there is no need to dump the old roof surface, as F.B.S. (fleece-backed systems) can be applied over a wide range of existing roof surfaces such as bitumen, malthoid, concrete or tongue and groove sarking roof surfaces.

For butyl rubber roof surfaces that have been incorrectly installed and/or are at the end of their life-cycle, Viking Enviroclad can be applied over the top which saves uplifting and dumping the old membrane.

Durability

Our re-roofing solutions offer maximum resistance from two key factors:

UV

EPDM rubber and TPO possess very high UV resistant properties which are important in New Zealand's high U.V. climate; and

Building and Substrate movement

EPDM's high elongation properties and TPO's reinforcing mesh are extremely forgiving of a structure's flexing and stretching.

Puncture Resistance

The fleece-backing of F.B.S. membranes adds additional puncture resistance to the existing puncture resistance of Viking Epiclad and Enviroclad membrane solutions; the latter already possessing the above-mentioned reinforcing mesh.

"Silk Purse"

This fleece-backing also partially forgives rough substrates into which it "beds" itself; thus rendering a surprisingly smooth membrane surface finish. An unsightly rough substrate would otherwise show through any non-fleece-backed single-ply membrane.

Peace of Mind

Waterproofing is one of, if not the most delicate sector of the construction industry. A BRANZ appraised system provides the assurance that you are choosing a membrane solution tested for New Zealand conditions.

Viking Epiclad F.B.S. and Enviroclad systems are BRANZ appraised. BRANZ performs a rigorous, independent assessment of products by reviewing and testing the quality of the full system; in particular, its ability to meet the New Zealand Building Code requirements.



Masterspec

If you are a member of Masterspec, our re-roofing specifications for Viking Enviroclad, Enviroclad F.B.S. and Epiclad F.B.S. are available on their website at www.masterspec.co.nz. This will assist with council compliance.

Installation

WARNING – If an existing membrane on a plywood substrate has been leaking for a long time, the plywood may be rotten and requiring replacement. Overlaying such a roof with a re-roofing membrane would be irresponsible and potentially dangerous from both building structure and inhabitants' health perspectives....

A dentist assesses whether a decayed tooth requires capping or full replacement with a new artificial one. Likewise, only Viking Roofspec Technical Specialists and/or Viking licensed applicators can make assessments about the condition of a roof's substrate which in-turn will determine the waterproofing methodology to be used.

So, to ensure longevity and a professional, watertight finish, our re-roofing solutions are only ever installed exclusively by Viking Approved Applicators who've been licensed through Viking Roofspec's rigorous 3-stage licensing programme.

Warranties

All Viking membrane systems are backed by a 20 year product warranty. Re-roofing projects over 300m², can seek eligibility for a "Viking Full System Warranty" which covers both the materials and workmanship for the full 20 years under the one document direct from Viking Roofspec to the building owner.



Solution	Viking Enviroclad	Viking Enviroclad FBS	Viking Epiclad FBS
Thickness	1.14mm and 1.5mm	2.5mm (1.4mm of fleece-backing)	2.5mm including the fleece
Roll width	3.0m wide or 3.66m wide	3.6m wide	3.0mm
Roll length	30.4m long (sold cut to length)	30.4m long (sold cut to length)	15.2m long
Colour	Grey and White (Tan available on indent)	Grey and White (Tan available on indent)	Black (White available on indent)
Code	STP110 (1.14mm) Grey STP100 (1.14mm) White STP510 (1.5mm) Grey STP500 (1.5mm) White	STP204	SEH203
Material	Thermoplastic polyolefin	Laminated polyester fleece-backed thermoplastic polyolefin	Laminated polyester fleece-backed membrane of EPDM – Ethylene Propylene Diene Terpolymer
Key features	Heat Reflectivity - White and grey are highly reflective (eg: The white membrane reflects over 90% of the solar radiation that hits it), thus directly contributing to a reduction in a building's and cooling costs. Heat weldability - Heat weldable technology (including accessories) negates the need for oil-based splicing systems like lap tapes and primers. Recyclability - Enviroclad is 100% recyclable due to absence of chlorinators and plasticisers		Provides extra cushioning for enhanced puncture and tearing resistance; Wide sheets results in a minimum number of joints on large areas for the ultimate watertight finish; and High tolerance for flexing and stretching over a wide range of temperatures for greater durability and watertightness.

CaseStudy



Historical Building Gets a Facelift – Hania Street, Wellington

Challenge

21 Hania St is the address of a 71 year-old building designed during the Depression by architect Edmund Anscombe. The building served as a centre to aid returned servicemen and women in their reintroduction to civilian life during World War II. It also became a factory for the manufacture of prosthetic limbs for disfigured soldiers.

Its flat roof had been waterproofed several times using a bitumen based liquid membrane, the layers of which had become brittle and cracked over the decades and had started to leak water through to the old sarking beneath.

3 years ago, the building struggled to attract a purchaser because of the perceived exorbitant costs associated with re-cladding the 1300m2 leaking flat roof (with next to no pitch). A church group eventually purchased the building with a view to embarking on its refurbishment.

21 Hania Street's heritage classification by the Historic Places Trust meant that the Wellington City Council required a resource consent for any exterior work with a view to keeping the building as close to the original design as possible.

Originally a quantity surveyor was commissioned to explore the option of pitching the roof for metal roofing which would require engineered designed fixings to the original structure. This proved too expensive and troublesome, and as the building was occupied, opening the roof up meant too much cost and disruption. So another option was explored which involved a three layer torch-on system with the base sheet being mechanically-fastened. But Viking Roofspec put forward a better option...

Solution

The Property Manager Ian Kearney, eventually chose the Viking Enviroclad F.B.S. (Fleece backed System) for several reasons:

- It is designed to go over old membranes without having to tear them up. This means (i) minimal disruption, none of the building's occupants would need to be re-located during the roofing process (ii) labour and dumping costs would

be saved (iii) the local landfill would be saved from 1300m2 of asphalt.

- Removing all of the existing bitumen membrane in gutters. This allowed a more thorough inspection to take place in these key areas whilst drying out any potential dampness and replacement of rotten substrate.
- Performing carpentry in a number of degraded areas including relining parapets, skylight plinths and new timber bracing for the high parapets.

The team at Esterno then set about installing 1300m2 of Enviroclad F.B.S. with its 3.6m x 30.4m (109.8m2) rolls and F.A.S.T. adhesive system.

An additional insurance policy was adopted of mechanically fastening "Piranha" plates with screws, (aluminium discs with teeth on the underside to grip the membrane) through to the original sarking just in case the bond between the old asphalt and sarking substrate wasn't as strong as perceived in some areas. These were installed at 300mm centres underneath the welded Laps, and at 1.8m centres throughout the middle of the sheet.

To allow any residual moisture in the sarking to escape, no expense was spared on venting the roof. One-way, pressure release vents were installed and flashed with proprietary TPO pipe seals.

Result

In short, the 71 year old building's roof had been given a "birthday". The owners were thrilled with the transformation of their tired; leaking; ugly; charcoal; asphalt roof into a fully warranted; dove grey; cost-effective, but most importantly watertight roof that would prolong the life of this lovely old lady. They can have peace of mind seeing technical representatives from Viking Roofspec will be inspecting the roof not only post installation, but on the 1st, 2nd, 5th, 10th and 15th years of the 20 year warranty period – all as part of the Viking Full System warranty process.



Auckland Office
80 Alexander Crescent, Otara
PO Box 14-541, Panmure
Auckland 1741, New Zealand

Christchurch Office
2 Nazareth Avenue, Middleton
PO Box 9117, Tower Junction
Christchurch 8149, New Zealand

T. 0800 845 464
F. 0800 845 460
orders@vikingroofspec.co.nz
www.vikingroofspec.co.nz