

Refurbishment of Failed Flat Roofs

**Maximise your Investment with the
Right Waterproofing Solution**



The refurbishment of a failed flat roof is the most common waterproofing problem that the building industry is coming across. Taking all the variables into consideration when specifying a waterproofing solution is not an easy process.

Here are a few steps to consider when undertaking a roof refurbishment project:

STEP 1

Diagnose the problem

Setting the scene

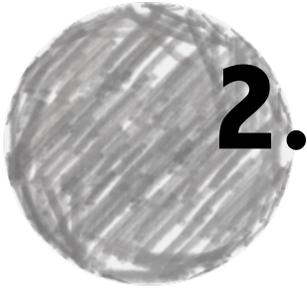
Water ingress due to failure of the roof components or due to the shortcomings of the roof construction can have a dramatic effect on the building occupier, resulting in water ingress and the loss of thermal performance of the insulation material (if any insulating is installed).

In addition the financial burden associated with the roofing works necessary to reinstate the integrity of the roof waterproofing can be significant.

Diagnosis of the problem may not be straightforward. Water could be collecting within the roofing layers due to several reasons.

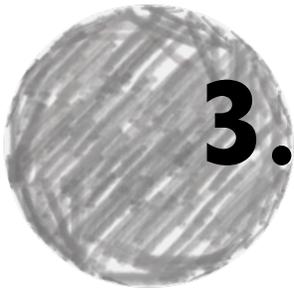
1. **Poor Perimeter Detailing/ Failure at upturn.**





2.

**Failure of
the
outermost
weathering
layer.**



3.

**Inadequate
& Poor
Detailing
around
Penetrations**



Step 2

Environmental Responsibility

When undertaking a roof refurbishment project, the use of WOLFIN products can lower your costs because you save the expensive component of stripping up & disposing of the old failed membrane. By avoiding construction waste, you can also actively help to preserve the Environment.

One of Wolfin many unique characteristics:

Unrivalled Bitumen Resistance

The refurbishment of old existing bitumen based & liquid applied membranes represent the majority of all roofing rectifications.

Unrivalled bitumen resistance

Compared to other thermoplastic roofing and waterproofing membranes, the bitumen resistance of WOLFIN membranes is truly unique. Independent tests prove conclusively that the resistance of WOLFIN by far exceeds the requirements stipulated by the relevant standards. WOLFIN membranes show practically no changes due to swelling or weight loss. The advantages are obvious:

- No separation layers are required between WOLFIN and bituminous membranes. Whether new or old bitumen, WOLFIN can be in direct contact with both:



WOLFIN membrane and bitumen in direct contact.

- Diffusing flux oils can migrate through the WOLFIN membrane without damaging it.



Flux oils escape but do not damage WOLFIN membranes.

- Bitumen on craftsmen's shoes and clothing does not harm WOLFIN membranes.



- Emissions from power stations, steelworks, cars and factory chimneys do not harm WOLFIN membranes.



- Asphalt and bitumen dust that may deposit when recycling roads do not harm WOLFIN membrane.



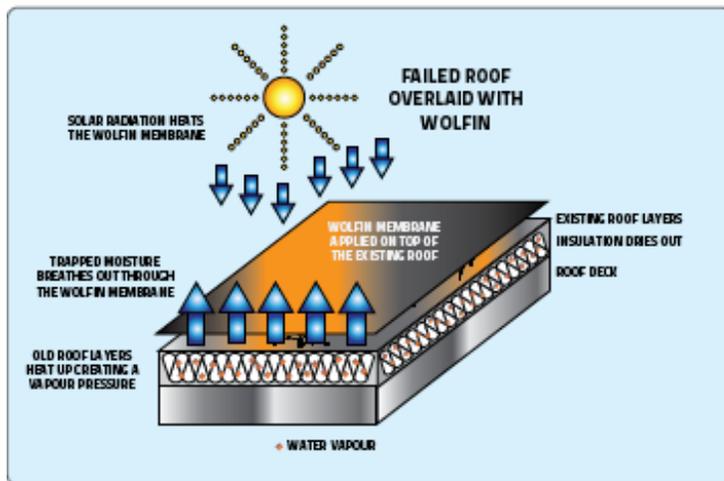
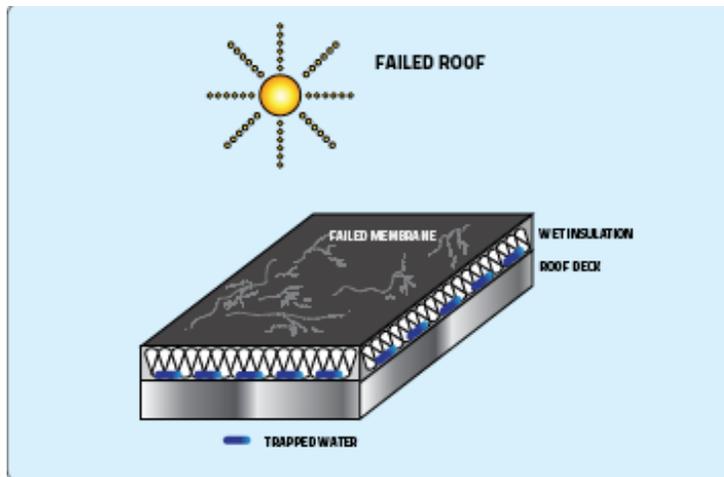
Step 3

Select your Waterproofing Solution Wisely

Refurbishment with Wolfin roofing & waterproofing membranes has been a tried & trusted solution for more than 50 Years on all continents of the globe, covering millions of square metres of flat roofs, green roofs & building surfaces.

In most cases the old membrane is retained & the new Wolfin Membrane is installed directly over the existing failed membrane (including bitumen)

Of all the Thermoplastic roofing & waterproofing membranes in the market, WOLFIN offers the highest water vapour diffusion permeability, which allows the trapped moisture in the roof layers to completely dry out.



Benefits of a Wolfin Installation/Refurbishment

- Warranty issued by the supplier (Labour & Materials)
- Saves you money
- Reduces the programs duration
- Service Temperature Range -25C – +85C
- No open flame
- Reduces the environmental impact (no disposal of the old failed roofing membrane components)
- On-site Technical assistance
- Manufactured & Engineered in Germany
- Can be left exposed- UV Stable
- Highly Flexible
- Bitumen Compatible

With over 50 years of experience in the single ply membrane market, WOLFEN set out to develop a roof refurbishment solution that minimised the cost to the client, that guaranteed the prolonged performance of the existing roofing materials and which reduced disruption to the building occupier.

WOLFEN based their solution around the ability to keep the majority of existing roofing materials, which formed part of the failed roof construction in place, whilst providing a new overlay membrane, which dried out the moisture within the failed roofing layers.

Of all the waterproofing membranes available in the market the WOLFEN membrane offers the lowest vapour resistance and as a consequence achieves the highest vapour permeability.

Case Study

[Click here](#) to read about the 9000sqm flat area refurbishment completed at The National Library of Australia in Canberra.



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