



## Protan Roof Renovation

Your design – Our solution



# Stop and think!

Renovation of your roof is a greater challenge than when it was first constructed. There is no set system for re-roofing. Upgrading every old roof presents its own unique problems.

That's why Protan advise you to "Stop and Think" before deciding on your solution.

Choose wisely, protect your investment!

## Protan

Protan single ply polymeric materials offer the most comprehensive solutions for the discerning designer. The selection of a suitable and durable roof covering is crucial to the design of the overall roof construction.

More than 100 million square metres of Protan roofing membranes have been installed in Europe since 1971.

Based on Protan's own installation experience, the company's focus is on the lifespan of the product, waterproof integrity of the roof and safe installation, particularly during renovation.

Reduction of fire risk



Slip resistance as standard



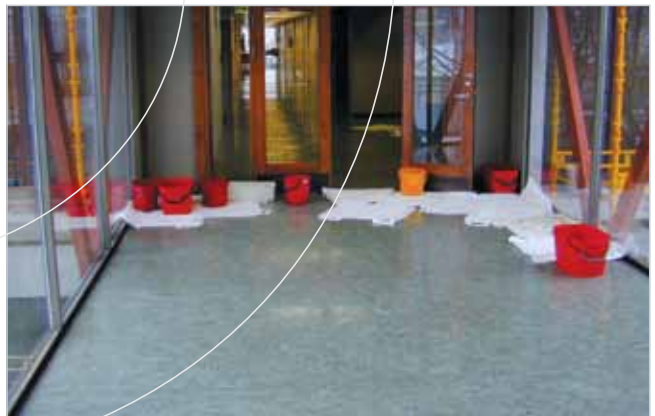
Independent verifications for quality assurance in accordance with ISO 9001 and for environmental protection in accordance with ISO 14001 proves Protan's constant commitment to our customers.

The Protan Company has been built on real values, with a reputation for quality and friendly service, and provides technical support from concept, through installation and beyond.



**What causes problems?**

- leaking
- peeling (coated metal)
- bad workmanship
- lack of maintenance
- change of use
- poor material



# Stop!

## INVESTIGATE - What's wrong?

### Possible causes

- Unexpected ageing
- Unsatisfactory product qualities
- Poor or lack of maintenance
- UV-degradation
- Pollution
- Ice-movement
- Wind damage/delamination
- Excessive structural movement
- Deck failure
- Incorrect specification
- Incorrect dew-point calculation causing water vapour to be trapped
- Poor workmanship
- Poor detailing
- Ponding water (careful to use this one)
- Mechanical damage
- Trapped water



# Think!



**Don't make the same mistakes twice!**

**Use the opportunity wisely.**

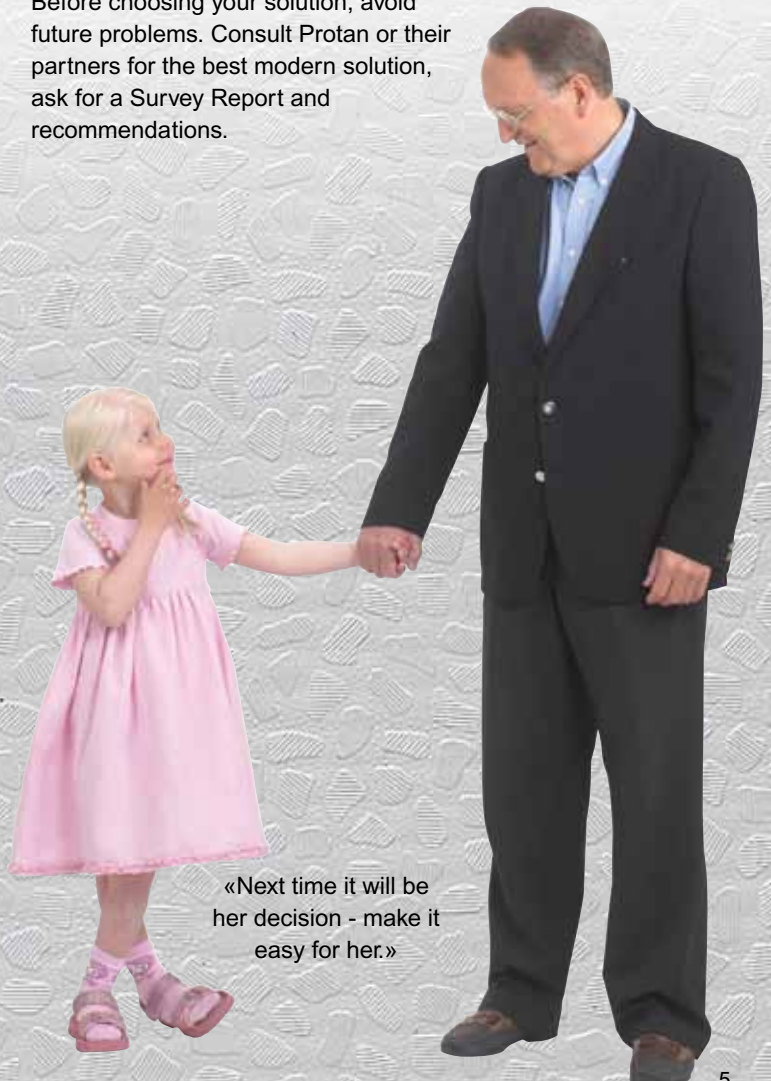
Possible considerations:

- Customer requirements
- Alternative roof style and usage
- Modernisation
- Purely waterproofing
- Upgrade insulation value vs. weight
- Mechanical attachment of existing build-up to prevent future delamination
- Counter-flashings at walls and penetrations
- Reinstallation of metal flashings
- Weather restrictions
- Visual effect
- Low future maintenance
- Lifetime cost considerations
- Durability
- Local regulations
- Insurance requirements
- Environment and Recycling possibilities
- Landfill costs in the future



**Consider fire danger - bigger risk on renovation than new building**

Before choosing your solution, avoid future problems. Consult Protan or their partners for the best modern solution, ask for a Survey Report and recommendations.



«Next time it will be her decision - make it easy for her.»

# Protan solution

*Protan's care and attention to detail means that you can be confident that you have chosen the best solution for your flat or pitched roof, and therefore avoid future problems.*

## **Protan's Renovation Concept:**

- Preparation is the key to successful roof renovation
- Tried and tested modern system specifications
- Professional installation by trained and approved contractors
- Final inspection

Protan has developed its Roofing Systems based upon the practical experience of its own Roofing Contracting Divisions. Reassuringly - it works.

## **Advantages of Protan:**

- Modern roofing concept
- Superior waterproofing integrity
- Tough and durable
- Long life expectancy, more than 30 years experience
- Homogenous welded seams
- Installed in a wide variety of weather conditions
- Fire resistant and no use of open flame during installation
- Appearance, can be compatible with traditional materials, like lead, zinc, aluminium, copper etc.
- Lightweight
- Attractive finish including architectural profiles
- Environmentally sustainable
- High slip resistance
- Repairs and future tie-ins easily achieved
- Quick and cost effective installation
- Prefabricated details
- Superior UV-resistance
- A wide range of warranties available on request



The highest standards of design and workmanship are achieved through the skills and experience of both Protan's personnel, and those of our Partner Contractors. All of our Partner Contractors have attended intensive training courses in design and application.

Protan's Technical Team provides a comprehensive design service, including Wind-load calculations, site support and inspections.



Protan has developed systems for both exposed and protected membrane roofs:

## Exposed Membrane Roof



- **Protan Mechanically Attached Roofing Systems.** The most common solution, quick and easy to install and therefore cost effective in most cases.
- **Protan Adhered Roofing System.** To secure the membrane against wind uplift, fully adhering is commonly used in countries where weather conditions favour installation
- **Protan Vacuum Roofing System.** The exposed membrane is ballasted by the atmosphere. Excellent system for avoiding noise during installation.

(For more information about these systems, please consult the Protan Exposed Membrane Roof brochure)



## Protected Membrane Roof

Traditionally gravel/paved or planted roofing has been selected for reasons of wind loading, aesthetics, improved fire resistance and additional protection to the waterproofing membrane.

(For more information about these systems, please consult the Protan Protected Membrane Roof brochure)

In accordance with clients wishes, changing from a protected roof to an exposed roof can be easily achieved, but adding weight to form a protected/recreational roof may cause over-loading.



Veg Tech's moss-sedum roof vegetation

Additional information and local contact details available on Protan's International web-site: [www.protan.com/roofing](http://www.protan.com/roofing)

## Other application areas

Protan Exposed Membrane Roof

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Protan Feature Roof

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Protan Protected Membrane Roof

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Protan Terraces and Balconies

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