RENOLIT

Rely on it.

RENOLIT ALKORPLAN

EXCELLENCE
IN ROOFING

Airport station Satolas (France)

Experience in roofing membranes **RENOLIT** ALKORPLAN

The **RENOLIT** ALKORPLAN membranes are based on monomeric PVC-P. Although these membranes are traditionally installed on flat roofs, they are now commonplace on pitched and barrel vaulted roofs due to their flexibility and aesthetic qualities and are used in the waterproofing of new buildings and refurbishment projects.

The **RENOLIT** ALKORPLAN membranes have six main advantages:

Cost-effectiveness

- Economies on the installation costs: one single 30 m^2 roll replaces 6 bituminous rolls in a 2 layer system.
- Economies on the structure costs: the waterproofing is 5 times lighter than the traditional multilayer systems.
- Economies on the maintenance costs: generally limited to bi-annual inspections.

Fire Safety

- No naked flame during installation.
- Fire retardant membrane.

Aesthetic

- Adaptable to most roof substrates.
- A broad colour range.
- Integrity of the seams.

Physical properties

- Vapour permeability.
- Flexibility.
- Static and dynamic perforation resistance.

Durability

- Life expectancy assessed by the BBA (British Board of Agrément) as in excess of 30 years.

Recyclable

- PVC can be recycled and be reintroduced into the production process in order to preserve valuable resources. After their service life, the old PVC roofing membranes can be collected and recycled into new raw material.

  The **RENOLIT** roofing division, aware of its ecological responsibility, participates in the ROOFCOLLECT® collection and recycling programme.

Hardi (Denmark)

Shopping Centre (Russia)

Cost effective

Reduced installation time

As the **RENOLIT** ALKORPLAN waterproofing membrane is a single layer of highly developed material it significantly speeds up the installation process, which will result in identifiable cost savings in installation time.

For example, to replace 1 roll of 30 m^2 of **RENOLIT** ALKORPLAN, at least 6 rolls of a traditional bituminous multilayer membrane are needed.

Light weight

The weight of the product is one of its major advantages. The membrane is between 20 to 40% of the weight of some traditional multilayer systems. The weight ranges from 1.6 kg m^2 up to 3.3 kg/m^2, depending on the thickness of the membrane.

Limited Maintenance

The maintenance required by the **RENOLIT** ALKORPLAN waterproofing system is limited: in most cases, a visual inspection and routine clearing of gutters and outlets is all that is required.

The **RENOLIT** ALKORPLAN membranes provide the building owner with a long term cost effective solution and contribute to the durability of their buildings.

One roll **RENOLIT** ALKORPLAN of 30 m^2 = 6 rolls of tradional bituminous multilayer system

Museum of Art (Denmark)

Aesthetic

The integrity of the seams

The aesthetic benefits of **RENOLIT** ALKORPLAN would be lost if the roofs showed seams and joints similar to those in the majority of traditional systems.

RENOLIT ALKORPLAN provides a very smooth appearance to the roof, which is appreciated by architects and building owners alike.

Selective colour range

RENOLIT has developed a range of colours which provides an opportunity for the architect to create a roofscape which is both distinctive and effective:

Standard colour

Light grey 71004

RENOLIT ALKORDESIGN colours

Lead grey 73321	Charcoal 79851	Terracotta 82119	Copper green 60884

Silver Metallics 40100	Copper Metallics 84040

The colour availability will depend on the geographic location of the building. Please refer to the **RENOLIT** technical department for further advice.

Adaptability to all supports

The **RENOLIT** ALKORPLAN membranes can be adapted to a wide variety of roof shapes. They permit the architect to consider the application and use on buildings where the roofs are of a challenging and architecturally interesting nature.

Rosemount NHS hospital (UK)

Refurbishment & Fire resistance

Vapour Permeability

The **RENOLIT** ALKORPLAN membranes are not only waterproof, but are also permeable to vapour. This allows the roof to "breathe" (upto 15 times more permeable than most other traditional bituminous multilayer systems).

Suited for Refurbishment

Thanks to its vapour permeability , the product is particularly suited for roof renovations. In the majority of cases, instead of having to remove the defective waterproofing, it is often only necessary to install the **RENOLIT** ALKORPLAN waterproofing system over the existing one. A proportion of the water inside the old roofing system will diffuse through the membrane over time

Fire resistant roofing membrane

The **RENOLIT** ALKORPLAN roofing membranes are fire retardant. Further to this, there are no naked flames during the installation. A roof with **RENOLIT** ALKORPLAN waterproofing membranes is installed by means of hot air welding. All activities within the building can in this way be continued without any risk for the people inside .

Sport Hall (Italy)

Trade entertainment Center (Russia)

Durable

Flexibility

Every building is subject to structural and thermally induced movements. The **RENOLIT** ALKORPLAN membranes will accommodate normal building movements, however in the case of designed movement joints, a specific homogeneous **RENOLIT** ALKORPLAN membrane will be specified.

Durability

The extreme durability of **RENOLIT**'s products has been tested in practice: **RENOLIT** ALKORPLAN has been in use since 1972! Below there are some examples of roofs that have been proven to perform well.

International University Campus (France)

BMW Factory (Germany)

Transport station (Czech Republic)

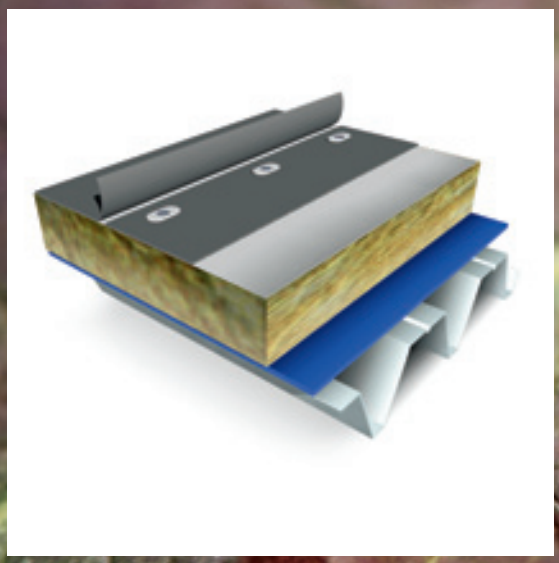
RENOLIT ALKORPLAN systems

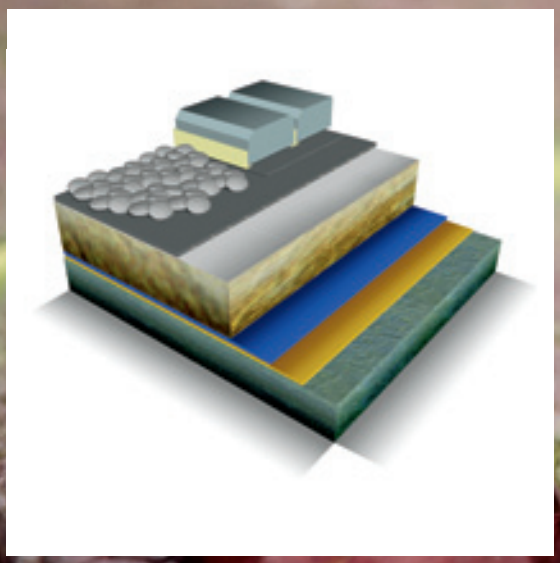
Mechanically fastened system

Pressure plates and screws to approved specification are fastened along the edge of the roof sheet, through the insulation into the roof deck. This system can be used for new build or refurbishment.

Ballasted system

The membrane is covered with protection, separation and drainage layers as necessary and restrained with ballast, paving slabs or green and garden roof planting systems.





Zara (Spain)

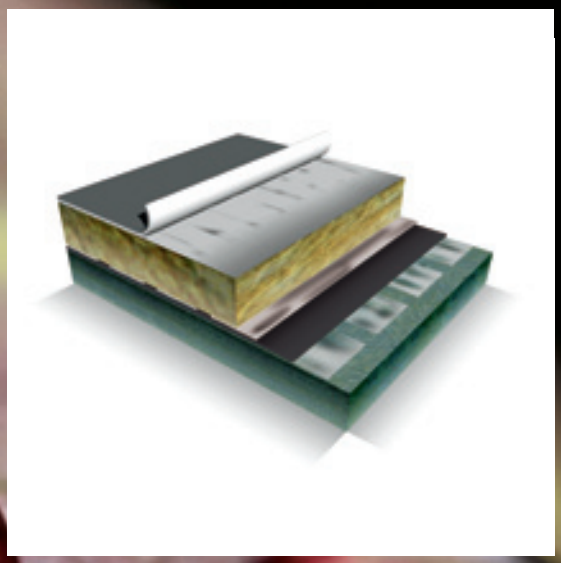
Groothandelsgebouw (The Netherlands)

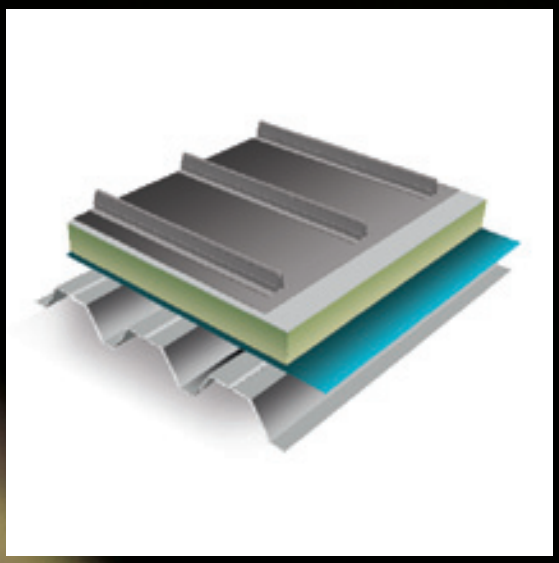
Adhered system

The membrane is fully or partially bonded. It is particularly suited to roof refurbishment as some membranes can be bonded directly onto old bitumen or felt.

RENOLIT ALKORDESIGN system

The **RENOLIT** ALKORDESIGN system simulates the appearance of standing seam and lead roll roofs without the weight and expense of aluminium, zinc, copper or lead, and the heavy duty roof structure required to support them.
The profiles are welded to the **RENOLIT** ALKORPLAN roofsheet, providing the aesthetic appeal of a seamed or rolled metal roof with all the advantages of single ply.





Hospital (Belgium)

Dogs Trust (UK)

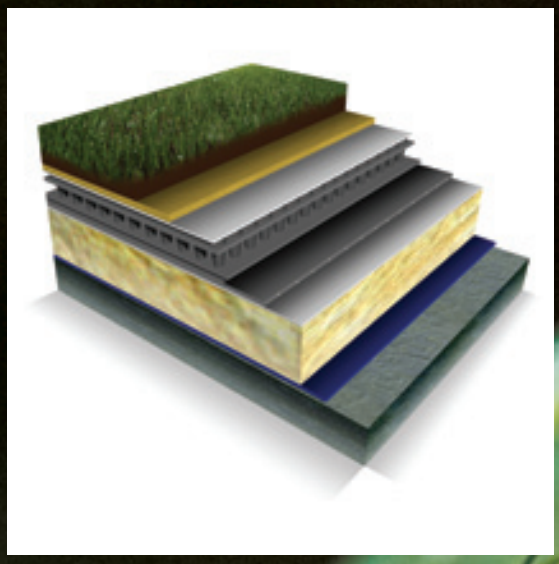
RENOLIT ALKORPLAN systems

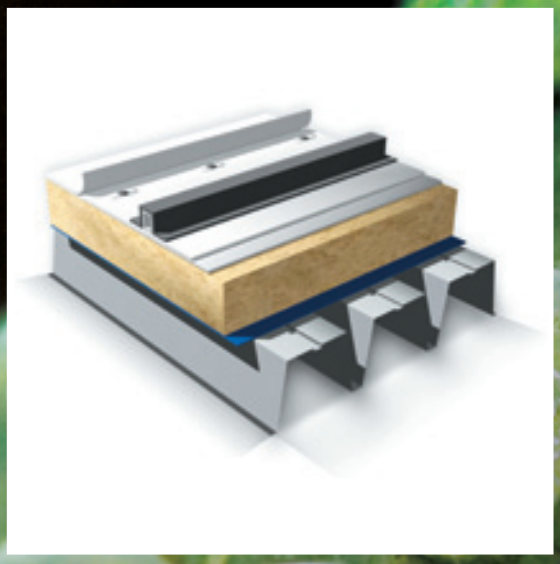
Green roofs

Over the substructure you have an adhered vapour control layer, a bonded insulation board, followed by the waterproofing membrane which is also adhered. Then follows a gliding layer, drainage layer and water retention layer. The substrate layer is then added ensuring both feeding substances and water supplies of vegetation and the oxygen and anchoring of the roots to the layer of plants that finish this system.

RENOLIT ALKORSOLAR

The ultra light **RENOLIT** ALKORSOLAR fixing system makes it possible to attach solar panels onto the roof without the need of extra ballast or perforation of the roofing membrane. The development of the system has taken into account the abilities of PVC roofing membranes to have compatible elements welded directly to them. The method allows a variety of different solar panels to be installed quickly and cost effectively. The white reflecting roofing membrane **RENOLIT** ALKORBRIGHT will lead to a lower air temperature around the photovoltaic modules, which will in turn lead to an increased return.





Grand Hotel Kalidria (Italy)

RENOLIT Factory (Belgium)

RENOLIT ALKORPLAN reference list

Zara	(Zaragoza, Spain)	2002
Plaza de Toros	(San Sebastian, Spain)	1998
City Hall	(London, UK)	2001
Métro Supermarket	(Istanbul, Turkey)	2000
IKEA	(Hanau, Germany)	1998
BMW	(Hams Hall, UK)	1999
Cherrybank Gardens	(Perth, UK)	2002
Brighton Eye	(Brighton, UK)	2003
Da Vinci College	(Gorinchem, The Netherlands)	2000
Day-care Centre	(Stockholm, Sweden)	2000
Surgery in psychiatric hospital	(Stockholm, Sweden)	2000
Lawyers' office "Droogbak"	(Amsterdam, The Netherlands)	1998
School	(Saxmundham, UK)	1998
Royal Vet College	(Herts, UK)	2003
Elf Total service station	(Séverac le Château, France)	1998
ING Bank	(Amersfoort, The Netherlands)	1998
New Generation Centre	(Newhaven Edinburgh, UK)	1999
Day-care Center	(Stockholm, Sweden)	2000
Ferrybanks School	(Waterford, Ireland)	2001
Office building	(Capelle aan de IJssel, The Netherlands)	2005
Ravenswood School	(Ipswich, UK)	2002
Private houses Weideklaver	(Spanbroek, The Netherlands)	2002
Keighley Market	(Keighley, UK)	2004
Edenhall Tennis village	(Cork, Ireland)	2005
Dorey Centre	(Guernsey, UK)	2000
Appartments	(Bovenkarspel, The Netherlands)	2002
Office building	(Tønsberg, Norway)	2000
Panorama Museum	(Bad Frankenheim, Germany)	1996
Airport station Satolas	(Lyon, France)	1995
Sainbury's	(Calcot, UK)	2004
Sport City Living	(Cork, UK)	2004
ING Centre	(Budapest, Hungary)	2002
Tour Pléiade	(Bruxelles, Belgium)	1992
Futuroscope	(Poitiers, France)	
Sainsbury's	(Twickenham, UK)	1998
Siemens AG	(Görlitz, Germany)	1988
Trade-entertainment centre Europark	(Moscow, Russia)	2004-2005
Lyric House	(Guernsey, UK)	2004
Park Theatre	(Hoorn, The Netherlands)	2003
Old people's home Freising	(Germany)	1981
BMW Factory	(Dingolfing, Germany)	1986
Chassé theatre	(Breda, The Netherlands)	2002
Sport Hall	(Livorno, Italy)	2003
Silos	(Cestas, France)	1996
Swimming pool	(Besançon, France)	
Teatro real	(Madrid, Spain)	1993
Halkade offices	(Ijmuiden, The Netherlands)	1999
Ryde Pavilion	(Isle of Wight, UK)	1992
Jehovah's Witnesses Church	(Sweden)	1999
Lyon Auditorium	(Lyon, France)	1999
City Business Park	(Plymouth, UK)	2000
Student Centre	(Cork, Ireland)	2005
Blackwells	(Oxford, UK)	2002
Office building Strogoff	(Schagen, The Netherlands)	1998
Auchan	(Moscow, Russia)	2003
Airbus	(Toulouse, France)	1993
Bluecoat School	(Liverpool, UK)	2003
Sporthall De Wolfskamer	(Huizen, The Netherlands)	1998
Safeway	(Coventry, UK)	1991
Ford Motor Company	(Golcuk-Kocaeli, Turkey)	1998
Folleli theatre	(Folleli, France)	1994
Tesco	(Inverness, UK)	1997
Olympic Centre	(Warsaw, Poland)	2004
Saab	(Glasgow, UK)	1999
Gazet van Antwerpen	(Antwerp, Belgium)	1994
McDonalds	(Moscow, Russia)	2003-2004
Swimming pool Het Keerpunt	(Zoetermeer, The Netherlands)	1998
La Charotterie	(Guernsey, UK)	2003
Appartments Development	(Cork, Ireland)	1992
Finance Centre	(Antwerp, Belgium)	1990
Restaurant Deleuil	(Lacanau, France)	2001
Private houses	(Damascus, Syria)	1984
RTVE	(Madrid, Spain)	1981
Private house	(Lewisham, UK)	2003
Ilot 6	(Brussels, Belgium)	1992
Holiday Inn	(Antwerp, Belgium)	1995
Hotel Kalidria	(Italy)	2001-2002
Banco di risparmiento	(Lucca, Italy)	1984
Montserrat Monastery	(Barcelona, Spain)	2000-2004
Euroclear	(Brussels, Belgium)	1990
International School Campus	(Lyon, France)	1993
Flanders Expo	(Ghent, Belgium)	1986-1990
Hydor	(Gentbrugge, Belgium)	1992
Peterhead Academy	(Peterhead, UK)	2004

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The British Board of Agrément have assessed the life expectancy of **RENOLIT** ALKORPLAN F used in the United Kingdom to be in excess of 30 years.

RENOLIT ALKORPLAN roofing products and systems have a standard guarantee of 10 years, and are installed by approved contractors and installers who are trained and assessed by **RENOLIT**.

All **RENOLIT** waterproofing membranes for roofing are part of the ROOFCOLLECT® collection and recycling programme.

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