



Sika Sarnafil -  
PROVEN PERFORMANCE  
FOR OVER 50 YEARS

**Sarnafil**®



# Sika Sarnafil INTRODUCTION - THE VISION



**OVER 50 YEARS AGO** a man with a vision founded Sarnafil. He wanted to challenge the traditional three layer felt and bitumen flat roofing market with one single membrane.

Today Sika Sarnafil is the specifier's system of choice because we believe in providing the best single ply roofing solutions...

And when we sell a roof, we support our customers for the life of that roof.



## **SARNAFIL MEMBRANE IS BORN**

In 1958, a company called Sarna was formed in Switzerland to develop polymeric products, and in 1962 this small company did something very big. Company chemists developed the first thermoplastic membrane reinforced with fabric, leading to a number of industrial applications and an ever growing roofing membrane market.

This tear-resistant thermoplastic membrane was patented and trademarked "Sarnafil". The discovery would revolutionise the flat roofing industry.

## **STILL GOING STRONG**

Since the 1960's the performance and longevity of Sika Sarnafil roofs has been demonstrated in millions of successful applications worldwide, in every conceivable climate, and many of the early installations are still providing reliable protection today.

Some of Britain's best known buildings feature Sika Sarnafil roofs, and it is the system of choice for applications in education, commerce, retail, leisure, travel, and many other sectors.



# Sika Sarnafil SERVICE



## LONG TERM PERFORMANCE GUARANTEED

We provide functional, practical roofing systems with performance advantages throughout the lifecycle of the roof. Indeed independent British Board of Agrément (BBA) certification confirms a life expectancy, in their opinion, 'in excess of 40 years'. (Refer to BBA certificate for details)

The combination of expert Swiss polymer engineering, continual on-going research and development and market-leading contractor training has created a range of roofing systems that we believe to be the best in the world.

## PROVEN PERFORMANCE

To help demonstrate our longevity claims, in the summer of 2006, samples were taken from the 19 year old Sika Sarnafil roof at London Heathrow Airport and a 20 year old Baptist Church in Bedford. These samples were sent to the BBA for testing.

The membrane samples were artificially aged and tested in accordance with the standards for new membranes, and the results were assessed alongside test data from a 36 year old roof in Switzerland.

Considered together, the test results enabled the BBA to award Sika Sarnafil the longest period durability statement for a single ply roofing system, with the certification for Sarnafil G and S membranes now stating; "... satisfactory retention of properties indicating that a life in excess of 40 years can be achieved with periodic maintenance..."



## SUSTAINABILITY

Whilst every aspect of our business and private lives impacts on these concerns, the construction industry has a unique opportunity to impact positively on most, if not all of these issues. In new construction a holistic consideration of many of these factors can be made, optimising the design of new towns and cities to complement the natural environment.

## REDUCING THE ENVIRONMENTAL IMPACT OF A BUILDING

The buildings within these new urban developments can be more thermally efficient. They can work with nature to manage or utilise rainfall for the benefit of the local and wider community. They can harness the power of nature to generate renewable energy, be it solar, wind or the earth's own heat (geothermal), utilising the energy on site or feeding it back into the National Grid. Overall they can be designed and operated to reduce their impact on the planet, reduce the operational costs to business and provide a better working environment.

## GUARANTEES WITHOUT COMPROMISE

The performance of Sika Sarnafil roof systems is covered by the industry's most comprehensive guarantees - including cover against error in wind uplift calculations which could lead to compromised performance.

Our unique Extended Products Guarantee has been developed to provide single-point cover for all elements within the roof system from the top of the deck upwards, to remove the risk of potential disputes that can arise when individual component manufacturers' guarantees are in operation. This integrated approach is made possible through unique partnership agreements with other major manufacturers in the construction industry.

Also available is the Sika Sarnafil Product Guarantee which covers the primary waterproofing system including Sika Sarnafil fasteners, adhesives, accessories and all Sika Sarnafil products.

The logic behind our guarantees is simple - when you buy a car you expect the manufacturer to guarantee the components included in its construction.

## INDUSTRY LEADING SUPPORT

A key component of every Sika Sarnafil roof is the carefully integrated package of services that initially enabled its installation and subsequently provides life-cycle customer support.

We can provide an almost infinite range of design possibilities, with an unparalleled selection of components and options to suit virtually any kind of new roof or refurbishment project.

We believe that the carefully developed process behind every Sika Sarnafil roof, as well as our product capability, is what sets us apart from our competitors.

# Sika Sarnafil SERVICE



## CONSISTENT QUALITY

A professional team behind every Sika Sarnafil roof is trained to high standards. This applies to our managers, Technical Advisors and Field Technicians. Sika Sarnafil roofs can only be installed by these registered contractors, to ensure that the Sika Sarnafil quality management system is adhered to throughout the process.

Each Registered Contractor is a roofing specialist and works in partnership with us to deliver the completed roof. Installers employed by Sika Sarnafil Registered Contractors each have to carry out hands-on training at our training centre. Here they are able to hone their skills under expert supervision from our Applications Department – The same team will inspect on site.

Facilities at our state of the art training centre allow installers to carry out simulated installations, with particular focus on detailing around roof features. This close attention to detail pays dividends at the final installation stage and ensures adherence to specified standards and working practices.

Sika Sarnafil also provides support throughout every aspect of your roofing project and will be involved at all of the following stages;

- Initial concept
- Specification and design
- Order and logistics
- Installation
- Completion inspection
- Guarantee issue

Furthermore, we are committed to fostering best practice amongst architects and specifiers and offer a programme of comprehensive RIBA approved CPD seminars, design & specification support, accredited details, bespoke NBS specs and BIM objects.



## THE CONCEPT STAGE

Following consultation with the specifier, the Sika Sarnafil Technical Advisor provides design assistance and technical advice, followed by a detailed written specification. They will carry out site visits and/or meetings at customer premises to ensure the project gets off to the right start.

All Sika Sarnafil Technical Advisors are experienced roofing industry professionals who have undertaken appropriate training covering Sika Sarnafil systems. They can advise on concepts and feasibility; system specification; compliance with Building Regulations; detailing; on-site considerations and planning.

## DESIGN SUPPORT

Behind the scenes, our Technical Services Team brings immense technical and application knowledge to every Sika Sarnafil project. This team checks and validates specifications and provides wind uplift calculations using bespoke, specialist software to UK National Annex to EN1991-1-4. These calculations ultimately form part of the information upon which our guarantee is based – an approach that is unique to Sika Sarnafil within our industry.

The Sika Sarnafil technical services team can also assist with the following:

- Drainage
- Tapered design
- U-values
- Condensation risk
- Accredited details
- Drainage calculations using Sika Sarnafil rainwater outlets can also be provided if required.

Throughout the project, the Technical Services Department also checks material orders against the original specification and provides telephone and e-mail support to specifiers and contractors.

## THE INSPECTION PROCESS

Once the project is on site, a dedicated Field Technician will conduct an interim inspection of the work during the project. On completion of the roofing system, the Field Technician then carries out a Final Inspection, ensuring that the work has been completed in accordance with the specification and that it meets the necessary standards for guarantee.

With such an important role for the satisfactory completion of the project, experience is crucial. This is why all of our Field Technicians are ex-single ply roofing installers with a minimum of five years' experience. Together they form our Applications Department, the team is responsible for training Sika Sarnafil's Registered Contractors, checking on-going work and inspecting projects in order to issue the final guarantee.



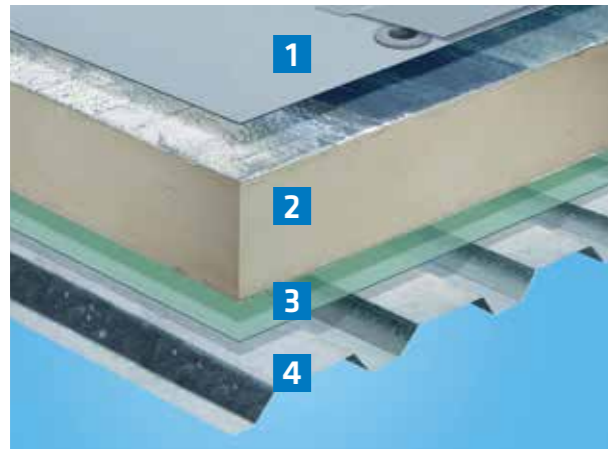
# Sika Sarnafil PRODUCT INFORMATION

Sika Sarnafil is renowned throughout the world for providing high quality, long lasting single ply roofing systems. Any system however is only as good as the components in it. Guarantees can be split by manufacturer which can vary in length and cover. Sika Sarnafil partners with the industry's leading manufactures to provide products, that if purchased as part of the Sarnafil system can be encompassed by the Sarnafil single point, guaranteed for up to 25 years (subject to conditions).

Furthermore these systems, subject to build up are:

- Mainly offer A+ in the specification to Green Guide
- Tested for reaction to fire to BS476 Part 3, EN1187 and BS EN 13501-5 and can be used without restriction.
- Help comply with building regulations and meet or surpass the requirements of all relevant standard regulations
- Acoustic sound penetration and reverberation
- Designs can with stand highest wind uplift in the UK

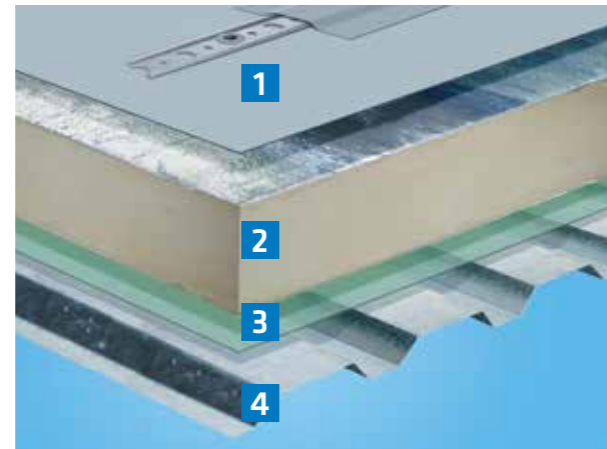
## SARNAFAST MECHANICALLY FASTENED SYSTEM



The Sarnafast System offers speed, security and economy of installation in applications which provide regular fixing centres, typically profiled steel decks. Ideal for applications with the following criteria:

- Location subject to high winds
- Large roof area
- Fastrack installation requirement
- Impracticality of adhered attachment

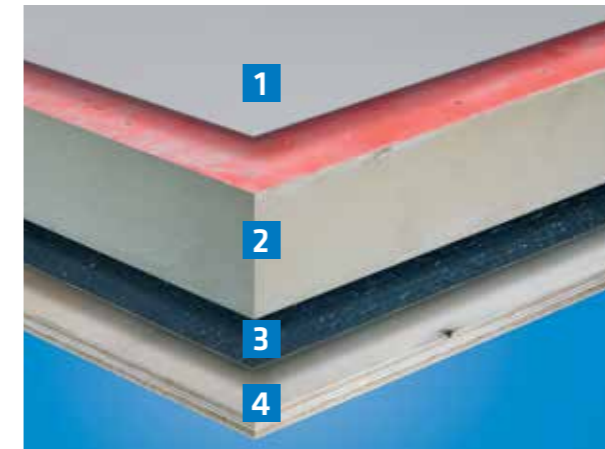
## SARNABAR MECHANICALLY FASTENED SYSTEM



The Sarnabar System features linear fastening bars which are attached at right angles to the direction of the membrane. This versatile system is ideal for use when fixing points are dictated by existing timber joists or channel reinforcement, or for use on concrete roofs where the Sarnafast system is less practical. Ideal for applications with the following criteria:

- Location subject to very high winds
- Concrete Deck
- Irregular or bespoke design
- Impracticality of adhered or Sarnafast attachment

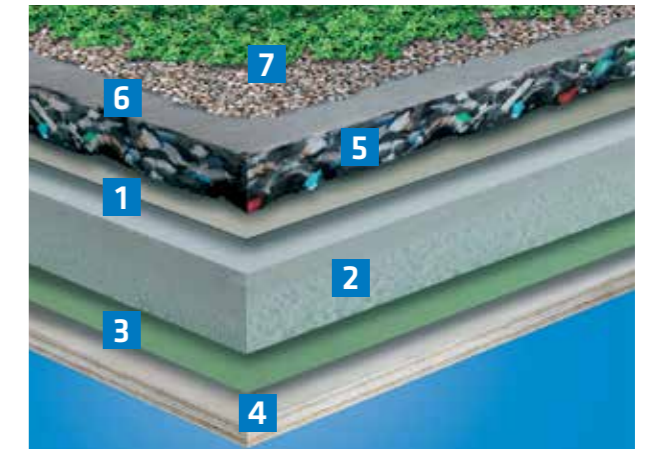
## SARNAFIL ADHERED SYSTEMS



These fall into two categories. Adhered Systems, in which all elements within the roof build-up above the deck are adhered to each other; and Composite Adhered Systems in which the membrane is adhered to a thermal insulation board that is mechanically fastened to the structural deck. Suitable for applications with the following criteria:

- Superior aesthetics
- Reduced noise during installation
- Impracticality of mechanical fastening
- High humidity in building below
- Complex roof shapes

## SARNAFIL BALLASTED & GREEN ROOF SYSTEMS



This broad range of roofing solutions is characterised by an additional top layer of stone ballast, pavers or a planting medium which secures the loose-laid waterproofing membrane. Ballasted/green roofs can be of either warm roof construction (shown above), or inverted construction with moisture resistant insulation. These Systems are specified for a variety of reasons, from fire requirements and acoustics, to amenity provision, aesthetics, drainage and creation of wildlife habitats

### KEY

1. Sarnafil membrane
2. SarnaTherm insulation
3. Sarnavap vapour control layer
4. Structural deck
5. Suitable Protection layer and Drainage Medium
6. Moisture retention fleece
7. Growing medium & planting

# Sika Sarnafil

## PRODUCT INFORMATION

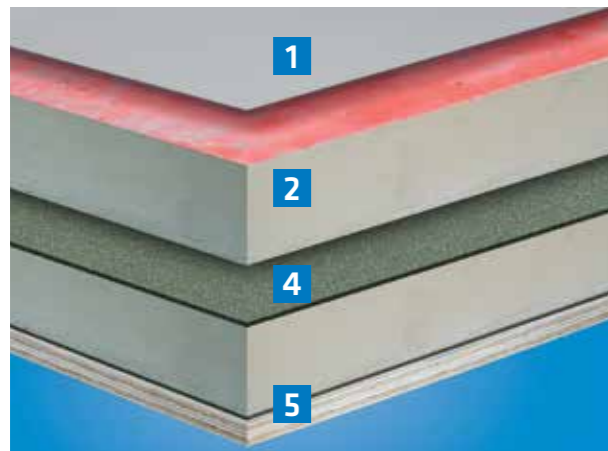
### SARNAFIL REFURBISHMENT OPTIONS

Sika Sarnafil is the leading manufacturer of single ply roofing systems. Essentially our single ply membrane is a strong, flexible PVC material. All permanent joints are fusion welded via a hot air heat welding process. It can be either mechanically fixed, fully adhered or loose laid ballasted to the roof surface. Sika Sarnafil Plus is able to provide building owners and/or their agents with a comprehensive range of refurbishment system options.

Sika Sarnafil Single Ply membranes offer real benefits to our customers:

- Installation without naked flames, removing fire related health and safety concerns
- Improved energy efficiency through thermal upgrading, reducing carbon emissions and whole life cost
- A wide variety of system options, ensuring the best solution for each individual application
- High vapour permeability (Sarnafil G/S membranes), which enables the overlay of existing waterproofing (subject to survey)
- Minimal disruption if an overlay can be used
- BBA life expectancy exceeding 40 years\*
- BRE accredited thermal details to save further energy

### OVERLAY



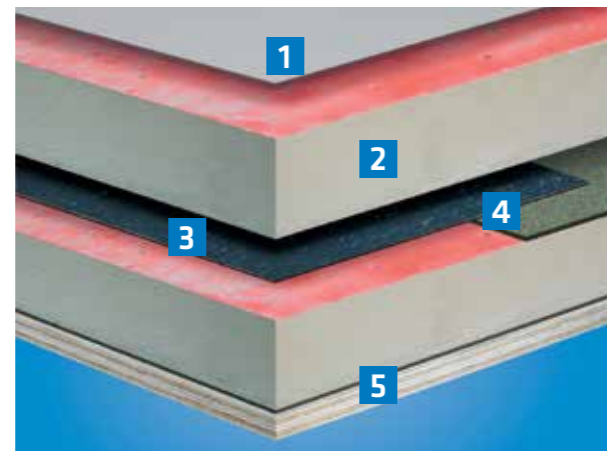
With this option, the existing waterproofing is used as a vapour control layer, subject to a detailed examination and an evaluation of how it is attached to the substrate. This will ensure that the new roof will not fail due to wind uplift. Overlays can be carried out using Sika Sarnafil adhered, mechanically fastened or loose laid ballasted systems.

Examples of where an overlay would be recommended are;

- If the roofing system needs to be upgraded to meet the requirements of Building Regulations Part L (England & Wales), or SBSA Technical Handbooks (Scotland).
- If there is limited moisture in the current system that has not yet affected the roofing system

\*Independently assessed by the British Board of Agrément (BBA) to last in excess of 40 years, in their opinion."

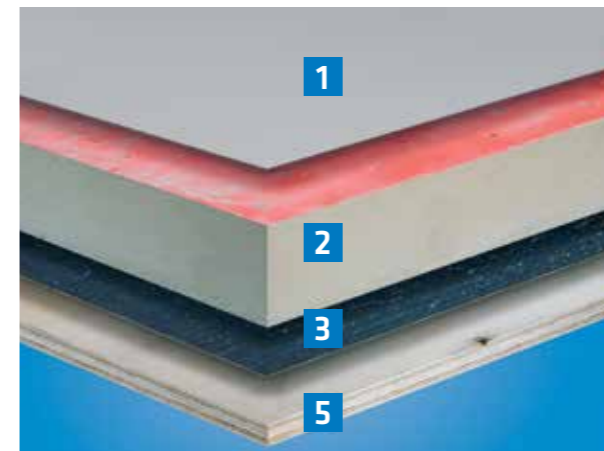
### PARTIAL STRIP



If the roof has been leaking in a specific contained area, or the type of roofing used originally can be removed without damage to the thermal insulation or structure, a partial strip may be recommended to prepare the roof for refurbishment. Examples of where a partial strip would be recommended are;

- If the roof elements are individually attached
- If localised removal and replacement can take place
- If elements of the original roof build-up can be utilised without compromising the integrity of the system

### COMPLETE STRIP



If the roof has been leaking for some time or previous attempts to repair a leaking roof have failed, a complete strip may be required to remove wet thermal insulation or deck. Where insulation is wet or excessively 'damp', leaving it in place will have a negative effect on any attempts to replace the waterproofing. It will provide little or no thermal benefit and will increase the risk of premature failure. A complete strip may also be required if a major component has failed and is beyond repair.

Examples of where a complete strip would be recommended:

- If wet/saturated insulation has affected the bond quality of the existing system
- If the material used for the original deck is no longer performing due to water ingress
- If the thermal properties of the insulation have created a cold bridge
- If a steel deck has corroded and needs to be replaced
- If the structural deck is unable to perform as designed

### FUNCTIONAL UPGRADES



As part of a Sarnafil Plus roof refurbishment project, we can upgrade the functionality of your roof to provide thermal upgrades, green roofs and solar PV arrays.

#### KEY

- 1. Sarnafil membrane
- 2. SarnaTherm insulation
- 3. Sarnavap vapour control layer
- 4. Existing roof covering
- 5. Roof deck

# Sika Sarnafil

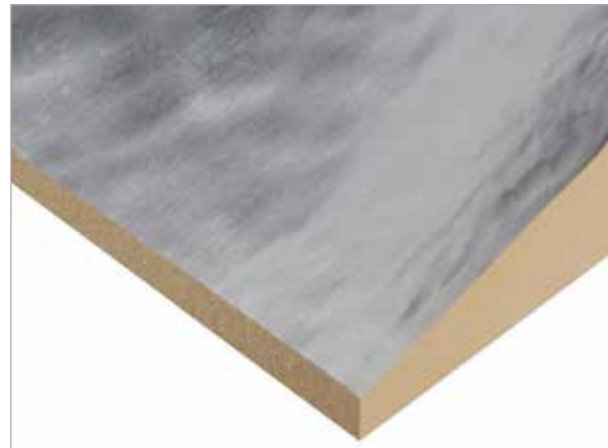
## PRODUCT INFORMATION

### VAPOUR CONTROL LAYERS



The Vapour Control Layer (VCL) needs to effectively manage the passage of water vapour through the building envelope and comply with EN 13984 and be specified to in accordance with BS 5250: Code of Practice for Control of Condensation. Sarnavap vapour control layers can meet with both these requirements. Another separate, but very important, function of a VCL is that of an Air Leakage Barrier. By preventing the unwanted movement of air, convective energy losses can be minimised. Using Sarnavap VCLs means that this critical element is fully compatible with the system with a guaranteed performance and no split in the liability.

### SARNATHERM INSULATION



The mandatory requirement for the thermal efficiency of buildings, is set out in "The Building Regulations Approved Documents" - Part L for England and Wales in Section 6 of the SBSA Technical Handbooks for Scotland.

The SarnaTherm range of Sika Sarnafil insulation encompasses uniform and tapered products suitable for use in adhered, mechanically fastened, loose laid ballasted and green roofing applications that have been tested for compatibility with other Sarnafil roofing components (critical in adhered applications). They meet a wide variety of fire resistance, acoustic and design requirements.

Sika Limited's unique Sika Sarnafil Branded Product Supply Agreements, with the industry's major thermal insulation manufacturer, ensures that specifying SarnaTherm provides the peace of mind of guaranteed product compatibility, without the risk of splitting the roofing system guarantee liability between the primary waterproofing and the thermal insulation manufacturer. Sika Sarnafil roofing membranes are very versatile and therefore ideal for almost any kind of roofing project from new extensions, to replacement or refurbishment of existing roof coverings, to bay windows and garages

### SARNAFIL MEMBRANES



Sika Sarnafil PVC and FPO membranes are manufactured in Switzerland, a country renowned for quality. The production facilities are state of the art with quality control to ISO 9001 and the membranes are CE marked to BS EN 13956 : 2005. The Swiss production plants also operate OHSAS 18001 Occupational Health and Safety. The impact on the environment is managed with ISO 14001. Sika Sarnafil membranes also have independent British Board of Agrément (BBA) certification stating life expectancy 'in excess of 40 years' for PVC and 25 years for FPO. (See BBA certificate for details). Sika Sarnafil systems have factory mutual approval.

Sika Sarnafil membranes are dimensionally stable due to the reinforcement, meaning that they do not shrink or lose their shape. Sika Sarnafil membranes are UV resistant and need no chippings to protect them from the sun's UV rays. Sika Sarnafil membranes are in fact tested for UV ageing to the highest international standard for waterproofing membranes, a test which requires exposure to 5,000 hours of UV testing. While this is a tough test in itself, Sika Sarnafil membranes are tested to withstand 10,000 hours of UV exposure.

Furthermore Sika Sarnafil membranes have a unique lacquered top coating, provide better resistance to industrial/biological waste and air pollution.

Sika Sarnafil membranes are treated with a fire retardant and are self-extinguishing and are tested in common build ups for reaction to fire to BS476 Part 3, EN1187 and BS EN 13501-5 and can be used without restriction.



Sika Sarnafil membranes are vapour permeable, small amounts of moisture trapped beneath the membrane can travel through and evaporate, preventing blistering or slumping as can be common in traditional flat roofs. Sika Sarnafil membranes are cold applied and do not require the hot works - naked flames and bitumen boilers associated with other types of roofing products. Very often specifiers, clients and contractors are unaware that their insurance will not cover dangerous hot works. Also they cannot provided the extra special health and safety provisions required for works using naked flames and explosive flammable gasses.

Along with compliance with an ISO 14001 Environmental Management System, Sika Sarnafil membranes have a low environmental impact and when used in conjunction with a high performance thermal insulant can significantly improve the energy performance of a building.

Sika Sarnafil PVC membranes have been used to obtain Ecopoint profiles and BRE Green Guide ratings for membrane roofs, a rating which can be used to obtain credits towards an overall environmental rating for a building using BREEAM. Sika Sarnafil membranes come in a range of colours, thicknesses and types. Some are peel and stick self-adhered or cold bonded, ballasted or mechanically attached. Subsequently Sika Sarnafil has an extensive range of primers, adhesives, protection layers and mechanical fasteners.



# Sika Sarnafil PRODUCT INFORMATION

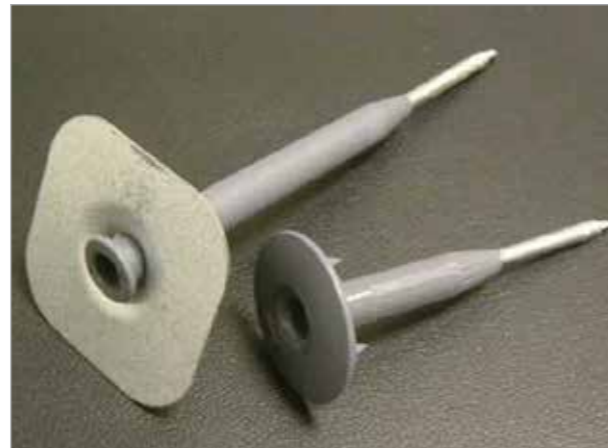
## ADHESIVES AND PRIMERS



Sika Sarnafil has over 50 years expertise with adhesive and primers and the Sika Sarnafil range has products that have been rigorously tested and can subsequently be used with confidence for the specific application. The variety of substrates found in roofing, particularly in refurbishment is vast and Sika Sarnafil has experience of bonding to most of these. This is when expert knowledge is crucial as the ability of the roofing system to resist the wind uplift is critical. However we know that there comes a point when it is no longer possible to adhere a system and mechanical attachment is the only option. This is something that may well be disregarded if the responsibility for this crucial consideration is not clear and overlooked. This could well have catastrophic consequences.

To ensure that every Sika Sarnafil system is designed to stay on the roof the Sika Roofing Technical Services Team carries out the wind uplift calculations, using software specially developed by the BRE. The results of these calculations are included in every project bespoke Sika Sarnafil specification, which provides the Sika Sarnafil Registered Contractor with the information they require for tendering and installing the roofing system.

This information is also used by the Sika Roofing Field Technician, to check the on-site installation against the original specification, for guarantee purposes.



When mechanically attaching single ply membranes to a structure, the long term performance of the fastener is critical in determining the ability the roofing system to resist wind uplift. All of the fasteners used in Sika Sarnafil systems have been rigorously tested and are used in the Sarnafil designer specification, calculated to BS EN 1991-1-4 Actions on structures, Wind actions, incorporating the UK National Annex.

To ensure the correct fasteners are used in every Sika Sarnafil roofing system, Sika Limited supply a range of Sika Sarnafil fasteners including stainless steel, carbon steel, thermally broken tube fasteners, pressure plates and fasteners, manufactured to our specification by SFS Intec Ltd. This enables Sika limited to provide a Sika Sarnafil guarantee that covers the roofing system and its attachment, for both product failure and resistance to wind uplift, backed by Product Liability and Professional Indemnity Insurance.

## ROOF ACCESS CONSIDERATIONS



A flat roof offers the designer many benefits, including the provision of an area to mount plant and equipment vital to the function of the building. Access for maintenance such as clearing gutters and drainage points etc. In situations such as this, it is vital to adhere to the full range of legislation. These are the Work at Height Regulations (WAHR), the Construction (Health, Safety and Welfare) Regulations 1996 (CHSWR), the Workplace (Health, Safety and Welfare) Regulations 1992 and the Construction (Design and Management) Regulations (CDM) that consider the safety of workers is adhered to. To assist the designer in meeting their obligations under Health & Safety legislation, Sika Limited offers three Sika Sarnafil products specifically designed with this in mind:

- VersiRail® edge protection
- Sarnafil Constant Force® post fall arrest/restraint system
- SarnaTred® walkway tile that are low risk to BS7976.

Where you need to restrict exposure to the hazard, the VersiRail® product offers an aesthetically-pleasing, durable aluminium and corrosion-resistant free standing protection solution. VersiRail® is tested and certified in accordance to EN 13374 and EN 14122-3. There is no need to drill or penetrate the roof and is available in three style choices; straight, curved or inclined.



The Sika Sarnafil Constant Force® systems offer a complete fall protection solution for both fall restraint and fall arrest. The simplicity of the fixings allows a quick and easy installation providing safe solutions where workers are exposed to a fall hazard.

SarnaTred® walkway tiles manufactured from high quality PVC or Polyolefine from new factory waste. Provide a simple yet durable slip resisting walkway to BS 7976-2 (Low: wet & dry conditions) for roof maintenance or access of Sika Sarnafil roofs.



# Sika Sarnafil PRODUCT INFORMATION

## ROOFLIGHTS



Sika Sarnafil offers a comprehensive range of SarnaLite rooflights allowing architects, specifiers, contractors and building owners to incorporate natural daylight as an integral design feature of the building. SarnaLite Rooflights not only achieve the architectural vision of the project but can completely satisfy current building regulations and sustainability targets. Harnessing natural daylight with SarnaLite rooflights will reduce energy usage and CO2\*. Using SarnaLites will ensure that the rooflights are also covered by the Sika Sarnafil guarantee.



\* National Association of Rooflight Manufacturers - Designing with Rooflights and Controlled Artificial Lighting to Reduce CO<sub>2</sub> emissions - supporting the requirements of Building Regulations Part L2A & L2B.

## LIGHTNING PROTECTION



Provision for lightning protection to BS EN 62305 can be met with a proprietary Sika Sarnafil lightning protection clip. These special clips are installed by a Sika Sarnafil Roofing Contractor or Sika Sarnafil trained and registered lightning protection installer and subject to the agreement of the Sika Sarnafil Roofing Contractor (who has contractual responsibility for the roof), the specially designed Sika Sarnafil lightning protection clips are simply hot air welded directly to the Sika Sarnafil membrane. Welding a strip of any old membrane to retain conductor tape or using more traditional type arrangements as is the custom with some manufacturers is simply not the Sika Sarnafil way.

## DRAINAGE



It is always good practice to try and ensure that a roof drains as efficiently as possible and meets the industry recommendations for minimum falls. For green roofs this prevents the accumulation of airborne dirt and dust and the risk of ponding water affecting plant life. To assist the designer in the provision of a suitable gravity drainage system and in accordance with BS EN 12056 - 3: 2000 'Gravity drainage Systems' inside buildings. Part 3 Roof drainage, layout and calculation and the Building Regulations Approved document Part H, Sika Sarnafil offer a drainage calculation service based on our standard rainwater outlet range. This has been tested to BS EN 1253 : 2000, to enable the accurate provision of these calculations. Complimenting this service is a comprehensive range of roof drains, scuppers and couplings. Guidance can be given on siphonic drainage.

## AESTHETIC PROFILES



Over the past 50 years Sika Sarnafil single ply membranes have been used to waterproof a wide variety of special roof designs, from stunning domes and curves to hyperbolic paraboloids and listed buildings; and whether a special roof design or a standard flat roof, Sika Sarnafil membranes can be supplied in a range of colours. The extensive range also allows the ability to reproduce the appearance of traditional metal roofing systems such as Lead, Copper or Aluminium, at a fraction of the cost, by incorporating Sika Sarnafil Decor or Batten profiles.

### DECOR PROFILE

Decor Profile reproduces the appearance of traditional metal standing seam roofing systems. It is available as standard in Lead Grey, Copper Patina, Copper Brown and Light Grey.

### BATTEN PROFILE

The larger Batten Profile simulates the appearance of a traditional lead batten roll and is therefore available in lead grey only. Both profiles are suitable for use on projects of any design, shape.

The above is a fraction of the products in the Sika Sarnafil portfolio that we are confident is the most comprehensive in the industry. Only with such a vast product range and unique branded product partnering can Sika Sarnafil offer the market leading roofing systems and guarantees that it does.



# CASE STUDIES



## **PARKWAY NEWBURY**

PRODUCT: SIKA SARNAFIL SINGLE PLY G410-12ELF IN LEAD GREY

SIZE: 500M<sup>2</sup>

# CASE STUDIES



## **LEEDS ARENA**

PRODUCT: SIKA SARNAFIL S327-18EL

SIZE: 7,500M<sup>2</sup>



# SIKA FULL RANGE SOLUTIONS FOR CONSTRUCTION:



**WATERPROOFING**



**CONCRETE**



**REFURBISHMENT**



**MERCHANT**



**SEALING AND BONDING**



**FLOORING**



**ROOFING**



**INDUSTRY**

## WHO WE ARE

Sika Limited and Sika Ireland Limited are part of the global Sika Group, specialising in the manufacture and supply of chemical based products for construction and industry. Sika is a world-leader in its field with subsidiaries in 90 countries around the world and manufactures in over 160 factories. With approximately 17,000 employees Sika generates annual sales of CHF 5.6 billion (£3.9bn). We are also committed to providing quality, service, safety and environmental care.

In the UK and Ireland, we provide market-leading solutions for concrete, waterproofing, roofing, flooring, refurbishment, sealing & bonding, and industry, and have manufacturing sites in Welwyn Garden City, Preston, Leeds and Dublin with more than 700 employees and a turnover of more than £190 million.

The information, and, in particular, the recommendations relating to the application and end use of Sika® products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Product Data Sheet for the product concerned, copies of which will be supplied on request..



FM 12504



EMS 45308



OHS 585274

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## SPRA

The Single Ply Roofing Association (SPRA) represents membrane manufacturers, associated component manufacturers and specialist sub contractors and aims, through a quality assured partnership, to ensure the delivery of best value single ply roofing systems. By specifying products and specialist installation by SPRA Manufacturer, Associate and Contractor members you can be assured that all parties meet strict quality criteria. Compliance with these criteria and with the Code of Conduct is assessed at application, by annual audit and by random spot checks.

For further information, and to obtain copies of the SPRA Design Guide and other documents, go to [www.spra.co.uk](http://www.spra.co.uk) or call 0845 154 718.



**Sarnafil®**

