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Project Ref: JB14345

WGC, 18/08/2014

Suggested Sarnafil Specification for 18 Park Road, Holbeach, Lincolnshire

Dear Simon,

Please find enclosed the proposed specification for the roofing works at the above named project. Contained within the specification you will find comprehensive information regarding the proposed roof build up(s), detailing, project preliminaries, guarantees, workmanship and maintenance.

The proposed specification includes details of the design against wind uplift, which is covered by Sika Limited's design insurance. A drainage design calculation can be provided based on the use of Sarnafil rainwater outlets, if you would like us to provide this service, please do not hesitate to contact the undersigned or go to our website www.sarnafil.co.uk to request a drainage evaluation pack.

Sarnafil systems have comprehensive Factory Mutual (FM) listings in the Approvals Guide and on the RoofNav web tool, which means that the systems have been tested and verified as having high wind uplift resistance and excellent fire performance.

As the first single ply roofing brand to become **Building Information Modelling (BIM)** ready on the NBS National BIM Library, Sika Sarnafil have over 20 BIM objects available for our typical Sarnafil flat roofing systems. These are available for download in the majority of software packages at www.nationalbimlibrary.com/sika-sarnafil.

Another area we would also draw your attention to is the insulation specification. If SarnaTherm has been specified this will ensure the insulation is covered under the Sarnafil guarantee and the cover matches that for the Sarnafil membrane. Where SarnaTherm is not used the insulation is not covered and in the event of an insulation failure the insulation manufacturer's terms and conditions may differ and may not cover the replacement cost of the Sarnafil membrane.

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The detailing recommendations utilise Sarnafil Accredited Standard Details, modelled by the Building Research Establishment (BRE) in order to provide calculated values for heat loss and condensation risk, as well as reduce air permeability. The calculated heat loss (Ψ value) figures can also be entered into the SBEM (Simplified Building Energy Model) building modelling tool without incurring the penalties outlined in Part L for non-calculated designs. These details can be downloaded via our website or sent on a USB device. As with the wind uplift calculations, the details are covered by Sika Limited's design insurance.

I am sure that you will find the enclosures self-explanatory, however please do not hesitate to contact us should you require clarification of any of the details in this specification.

Yours sincerely





Jonathan Bunn
Technical Advisor

Kevin Murray
Technical Services Advisor

Specification



Suggested Sarnafil Specification for:

18 Park Road, Holbeach, Lincolnshire

Our Reference:

JB14345

Date:

18/08/2014

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Sarnafil Specification Contents

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Specification Revisions / Summary of Changes

Rev No	Date	Summary of Changes
-	18/08/2014	First Issue

Project Ref: JB14345
Date: 20/08/2014

Suggested Sarnafil Specification for Roofing Works at
18 Park Road, Holbeach, Lincolnshire

1.0 General Overview

Mono Pitch Roof Areas

Area: 125m²
Height: 3500mm
Building Use: Residential

1.1 An adhered system is to be installed using Sarnafil G410-15ELF Lead Grey with integral 300g/m² polyester fleece as the main roof sheet and Sarnafil G410-15EL Lead Grey or S327-15EL Lead Grey for all detail work flashings.

1.2 **Deck** Plywood, minimum 18mm thick

Humidity Class 3

VCL Sarnavap 1000E polyethylene, loose laid

Insulation Sarnatherm Polyisocyanurate mechanically fastened

Membrane G410-15ELF Lead Grey with décor profiles

Guarantee This build up will achieve a 15-year Sarnafil, insurance backed extended product guarantee

1.3 **Fixing Summary**

Monpitched Roof Areas	
Insulation	**4no** fixings per board (600x1200)
	8no fixings per board (1200x2400)
Membrane	Adhered as per relevant clause in Section 2.

No allowance has been made for any shadow zones caused by other separate buildings.

NB: For the detailed specification, including fastener information see Section 2.

2.0 Detailed Roof Build up

Mono Pitch Roof Areas

2.1 Windforce and perimeter zone width calculations have been carried out in general accordance with BS EN 1991-1-4, UK National Annex Method, using the following criteria.

Grid Ref:	TF360249
Type of eaves:	Drip Edge
Degree of roof pitch:	5°
Profile of Roof:	Mono Pitch
If Hipped:	No
Basic wind speed V_b:	21.9m/s (10 min.)
Building height:	3500mm
Altitude factor C_{alt}:	1.005
Orography Factor C_o:	1.019
Exposure Factor √C_e:	1.333
Direction Factor C_{dir}:	1.000
Longest building length:	TBC

Calculations using these data generate a q value of **0.530kN/m²**

These criteria are assumed and must be checked by the Specifier. The Sarnafil Technical Department should be notified of any discrepancy.

2.2 **Deck**

Install a plywood deck to suit the loads and span of the joists.

The plywood is to be a minimum 18mm thick and certificated to conform with BS EN 1995-1-1: Eurocode 5 – 'Design of timber structures. General. Common rules and rules for buildings' and the appropriate grade according to BS EN 636: Plywood Specifications. A minimum Service Class 2 "plywood for use in humid conditions" should be used, however higher Service Class plywood may be required, depending on climatic conditions, and should therefore be defined by the specifier.

The deck is to be securely fastened to the substructure using screw fasteners or galvanised annular ring shanked nails (as appropriate) to suit the specific application and climatic conditions. Heads of nails or screws to be punched or countersunk flush with the surface of the deck. Please note that if the Sarnafil membrane is applied directly to the plywood deck, then the board joints should be level with no step and galvanised annular ring shanked nails would not be acceptable.

Should this plywood be part of a SIPS panel it is the responsibility of the specifier to ensure that the proposed SIPS panel is suitable for use in flat roofing applications and that all the necessary condensation risk calculations have been carried out.

2.3 In accordance with BS 5250 Code of Practice for control of condensation in buildings (Table D7) the suitability of the vapour control layer specified below is based on the Humidity Class 3.

Should the specifier require a different Humidity Class to be used for this design, then Sika Limited should be notified. A change of Humidity Class will probably require a change to the specification for the vapour control layer.

2.4 **Vapour Control Layer**

Over the structural deck loosely lay a Sarnavap 1000E flame retarded, polyethylene vapour control layer. **All side and end laps to be a minimum of 100mm and continuously sealed with Sarnavap jointing tape. To provide continuity of the vapour control layer the Sarnavap should have fully supported laps and is to be sealed to the abutment at the perimeter of the roof and around all penetrations. The surface of the abutment should be smooth to allow an adequate airtight seal of the Sarnavap.**

For the Sarnafil guarantee to include the vapour control layer, the appropriate Sarnavap must be used.

2.5 **Insulation**

Install FM Approved SarnaTherm G CFC and HCFC free polyisocyanurate insulation providing zero Ozone Depletion Potential (ODP) and low Global Warming Potential (GWP) to achieve the required 'U' value of **0.18Wm²K**. The insulation is to be in accordance with BS EN 13165 and the SPRA Design Guide.

The insulation is to be laid in a staggered bond pattern with all board joints lightly butt jointed and level, fastened with Sarnafil SBIW-70x70 pressure plates and SBT telescopic screw fasteners.

For 600mmx1200mm board size there should be a minimum of 4no. fasteners per board throughout the roof.

For 1200mmx2400mm board size there should be a minimum of 8no. fasteners per board throughout the roof.

All fixings and washers must be in an even pattern (see Sarnafil "Typical Fastener Layouts for PIR Insulation" drawing for further information) and located >50mm and <150mm from the edges and corners of the board and not overlap board joints.

Sarnafil thermally broken fasteners must be installed with the appropriate tooling.

When using Sarnacol 2170 it is not a technical requirement to cover all SarnaTherm board joints with self-adhesive aluminium tape. However, please note that when using non-fleece backed membrane omitting the tape may increase the 'ghosting' of the insulation board joints through the membrane.

Sika Limited strongly recommends that the specifier and/or the client should confirm the suitability of the thermal insulation suggested in this specification with the insurer(s) of the building and its contents prior to adopting this proposal. Sika Limited will assume that the specification is deemed suitable if it is then used as the basis for tendering purposes to procure the works.

NB: For a combined Sarnafil integral product guarantee on Sarnafil membrane and insulation, SarnaTherm insulation must be used.

2.6 **Membrane**

Adhere Sarnafil G410-15ELF Lead Grey fleece backed glass fibre carried roofing membrane to the substrate using an appropriate Sarnacol adhesive. Hot air weld minimum 80mm side laps and end coverstrips. Fleece backed Sarnafil membrane is butt jointed at roll ends and weathered with Sarnafil G410-15EL Lead Grey coverstrip, welded on each side of the roll end.

Sarnafil reinforced membranes are manufactured by extrusion coating at a state of the art manufacturing plant in Switzerland to ISO 9001 & 14001. Manufactured with a dirt repellent lacquered top coat and treated with fire retardants, it provides a self-extinguishing, dimensionally stable and vapour permeable waterproofing membrane certified by the BBA as having a 'life expectancy in excess of 40 years - see BBA for details.

Sarnacol 2142S adhesive is not suitable for use in temperatures remaining below 5°C for prolonged periods and on roof pitches >10° without additional restraints.

In the main area of the roof use a water filled, foam covered roller to ensure that the membrane achieves intimate contact with the substrate. For sloping, vertical and detail work a lambswool roller should be used.

Install Sarnafil peelstops to the perimeter of the roof, at all internal angles of roof detail and around all roof penetrations. Peelstops should be fastened into the structural deck where at all possible. If fixing into upstands, kerbs or other substrates, ensure these are suitably fixed to the structure. Fix at maximum 250mm centres with appropriate thermally broken SBT screw fasteners.

Sarnafil thermally broken fasteners must be installed with the appropriate tooling and the membrane must be pre-punched with the Sarnafil SMP tool.

2.7 **Décor Profiles**

Install **Lead Grey** Sarnafil Decor Profile hot air welded to the main field sheet at 400mm centres to coincide with the laps of the Sarnafil membrane. The general layout should be determined by the Specifier.

For a mechanically fastened membrane system, the membrane has been designed to withstand the wind uplift on this project. However due to the live nature of a mechanically fastened membrane under high wind uplift, the installation of intermediate rows or the use of 1m wide sheets should be considered.

3.0 Detail Work

Detail work generally is to be in accordance with the appropriate Standard Details on www.sarnafil.co.uk including published Sarnafil technical advice/recommendations and the Specifier's drawings.

Upstand heights

NB: The upstand flashings must be a minimum height of 150mm above the finished roof level in accordance with BS 6229:2003 Section 7.1.

Sarnametal Flashings

Perimeter edge trims and upstand termination flashings should be completed using Sarnametal flashings, which are manufactured using 0.6mm thick galvanised steel sheets factory laminated with 1.2mm thick Sarnafil membrane, all as per the Sarnafil standard details. For Sarnametal trims with a face depth >55mm the Sarnametal drip is to be either face fastened or restrained with galvanised cleats in accordance with the recommendations for Sarnafil systems.

Sarnafil Liquid Detailing System

The Sarnafil Liquid Detailing System can be considered for very difficult detailing situations and where considered should be installed in strict accordance with the Sarnafil Liquid Detailing Method Statement and all relevant Product Data Sheets.

Health & Safety / Access

To assist in compliance with the latest CDM regulations the SarnaTred walkway is recommended for known access routes across the roof and the Sarnafil Constant Force post fall arrest/Sarnafil Versirail freestanding guardrail system should also be considered for rooftop safety.

Lightning Protection

Building lightning protection required on the Sarnafil roof should be attached with Sarnafil Heat Weldable Lightning Conductor Clips.

Drainage

The Sarnafil Double L insulated rainwater outlet should be considered for its high drainage capacity and to ensure air tightness and thermal insulation continuity at the deck opening. Sika Roofing Technical Services Department can provide drainage calculations.

Services

Where cables or pipework pass through the roof consider the use of the Sarnafil 110mm Cable Bend.

4.0 Workmanship

All work is to be carried out in accordance with the Single Ply Roofing Association Design Guide, in strict accordance with the recommendations for Sarnafil systems and where relevant, BS 8217:2005 Code of Practice for Built-up Felt Roofing and BS 6229:2003 Code of Practice for Flat Roofs with Continuously Supported Coverings.

Sarnafil roofing systems may only be installed by Sarnafil Registered Contractors authorised by Sika Limited. All hot air welding of the membrane is to be undertaken by operatives with a valid Sarnafil LINK Card or Experienced Workers Card.

Roofing refurbishment works is legally notifiable to LABC unless the installing contractor is registered under a self-assessment programme such as the CompetentRoofer scheme. Contact NFRC for details.

5.0 General

5.1 The details contained within this proposal are based on information available at the time of writing. It covers the installation of Sarnafil materials and the preparation work necessary to provide a suitable substrate. Sika Limited cannot be held responsible for unknown site conditions or for the performance of materials within the system other than those manufactured, supplied and branded as Sarnafil products.

A detailed method of work statement and programme of works should be agreed with the Sarnafil Registered Contractor before the commencement of the works.

The requirements of all relevant British Standards, Industry Codes of Practice and current Sarnafil guidelines should be complied with at all times. A bibliography is available upon request.

All materials shall be applied strictly in accordance with Sika Limited's current technical & product information and all relevant health and safety guidelines. The successful Roofing Contractor shall afford Sika Limited every facility to enable them to carry out periodic site visits. This service does not absolve the contractor of his responsibility to carry out all work strictly in accordance with the specification.

5.2 All Intellectual Property in the drawings, designs, specifications, plans, software and any other documents or materials in any medium which have been created and/or developed by Sika Limited in relation to this project remain vested with Sika Limited.

5.3 This specification is intended to conform with the requirements of the 2013 edition of Building Regulation Part L1 and L2, effective in England on plans submitted after 6th April 2014, Building Regulations Part L1 and L2 Wales 2014, effective from 31st July 2014 and Section 6 of the SBSA Technical Handbooks (Scotland). The sections highlighted in bold refer to specific Part L issues.

The 2013 (England) edition generally requires 9% CO_2 savings over the 2010 regulations for non-dwellings and 6% CO_2 savings for dwellings.

Sika Limited and its partners use the Combined Method for establishing the U-value of the roof system and most detailing as described in BS EN ISO 6946 – Building components and building elements – Thermal resistance and thermal transmittance – Calculation method and BRE Paper BR443 – Conventions for U-value calculations. This method is advocated in the Part L guidance although it should be noted that it is unsuitable for constructions where repeating metal elements bridge between metal sheets – not usual in single ply flat roofing. In these cases, the thermal bridging effect may be greater than predicted by BS EN ISO 6946 (Amendment 1) because the heat flow is very non-linear.

5.4 Sarnafil G/S membranes are manufactured by a state-of-the-art extrusion coating process ensuring each membrane type can be specifically engineered to meet particular requirements.

They are dimensionally stable, vapour permeable and UV resistant. They are unaffected by common airborne pollutants and are available in different grades of thickness and colour.

5.5 Sika Limited complies with current Control of Substances Hazardous to Health (COSHH) Regulations. For certain products, Material Safety Data Sheets (MSDS) may be required; these are available upon request or visit www.sarnafil.co.uk.

5.6 Sarnafil G/S membranes have again been recognised by the British Board of Agrément for their weathering longevity. Sarnafil G/S membranes have been given by the BBA, in their opinion, a life expectancy of **'in excess of 40 years'** for exposed applications, with periodic maintenance as stated below.

"A planned maintenance cycle, and inspections by the Sika Roofing Application Department under the Sarnafil Quality Management System at minimum intervals of every 5 years, should be introduced if an extended service life is required. Sarnafil can advise methods of extending the service life. This could include the use of thicker membranes, specific maintenance requirements, for example maintenance coating or localised replacement or repair."

Should the maintenance cycle not be followed Sarnafil G/S membranes have been given by the BBA, in their opinion, a life expectancy of 'in excess of 35 years'.

5.7 On most projects, once work has commenced on site, a Sika Roofing Field Technician will conduct an interim inspection of the work during the project and a final inspection prior to authorising the release of the Sarnafil guarantee.

Upon completion of the roofing system, the Field Technician will carry out a 34-point Final Inspection, ensuring that the work has been carried out in accordance with the specification and that it meets the necessary standards for issue of the guarantee.

With such an important role for the satisfactory completion of the project, experience is crucial, which is why all Roofing Field Technicians have a minimum 5 years installation experience.

Together, the 11 strong team of Roofing Field Technicians for the Sika Roofing Applications Department, are responsible for training the Sarnafil Registered Contractors, inspecting on-going work and carrying out final inspections for guarantee.

6.0 Project Preliminaries

6.1 To prevent damage to the Sarnafil membrane ensure that finished areas of work are not used for the storage of materials, as building platforms or as access routes for other trades. Should any such use be unavoidable, adequate and appropriate protection should be provided for the entire construction period.

To protect the Sarnafil membrane care must be taken to avoid spillages of bitumen or other contaminating materials over the membrane. Finished areas of work must be kept clean and free from any contamination, which may be generated by roofing or other site operations.

6.2 In accordance with BS 6229:2003 Flat Roofs with Continuously Supported Coverings – Code of Practice and the SPRA Code of Practice it is recommended that; "*Single ply membrane roofs should have a minimum finished fall of 1:80. To ensure the minimum falls are achieved allowance should be made for deflection of the structural members and decking under dead and imposed loads and for construction tolerances. The falls assumed for design should, therefore, be steeper than the recommended finished falls. In the absence of a detailed analysis, a fall of twice the finished fall should be assumed for design purposes".*

The specifier is advised that the Sarnafil Agrément Certificate may be invalidated if no fall is provided, as this is in contravention of good practice.

If the minimum recommended falls cannot be achieved ponding may occur. However, Sarnafil membranes are unaffected by standing water and this will have no detrimental effect on the membrane guarantee.

6.3 At roof access points and where regular foot traffic is envisaged across the finished roof, recycled SarnaTred G/S walkway tiles should be installed, with permanent additional insulation protection for areas that may be heavily trafficked during the service life of the roof, and/or with temporary protection during the construction period.

6.4 **Insulation boards should be stored undercover and on a dry platform**. The insulation shrink wrapping is not adequate for weather protection.

6.5 On this project if the appearance of the membrane is visually important, patches should be avoided, the following aesthetic precaution should be adopted. If the Sarnafil field membrane should be for example damaged and it is necessary to be repaired with a Sarnafil patch, then a full width of Sarnafil membrane should be used.

6.6 Whilst Sika Limited endeavour to carry out BS 476 Part 3: 2004 fire tests for the most commonly specified Sarnafil roof build up's, not all permutations can be tested. It is the responsibility of the specifier to ensure that the roof construction complies with the building regulations and relevant insurance requirements.

6.7 Upstands should conform to the recommendations of BS 6229:2003: Flat roofs with continuously supported coverings – Code of practice: Section 7.1 concerning the minimum height of upstands.

"The design of drainage falls should ensure that the continuity of the waterproof covering is maintained for a vertical height of 150mm above the finished roof level at all abutments, door openings and parapets. For inverted roofs, those overlaid with paving, or garden roofs, the finished roof surface is the upper surface of the ballast, paving slabs or growing medium."

Please note that entry of water over any detail of less than 150mm in height, above the finished level, would not be covered by the Sarnafil guarantee.

6.8 The application of some products within this specification, e.g. adhesives, primers, sealants and cleaners may be limited to temperatures above +5°C and therefore installation may be affected during colder months. Please observe information provided in the Sarnafil Product Data Sheets, which can be found at www.sarnafil.co.uk.

7.0 Proposed Guarantee

Sarnafil G/S membranes are certified by the British Board of Agrément to have a life expectancy "in excess of 40 years*".

*See BBA certificate for details

The Sarnafil Product Guarantee term is determined by the membrane thickness, for a 15 year guarantee for Sarnafil products, with the exception of Sarnaplast which is a 10 year maintenance item, a 1.5mm thick exposed membrane should be specified. Ballasted/green roofs require a minimum 1.5mm thick membrane and the appropriate Sarnafil protection/drainage layer. The Guarantee for any details waterproofed using Sarnafil Liquid Detailing is limited to 15 years only. All Sarnafil products directly supplied by Sika Limited are backed by an XL Insurance Switzerland product liability policy which includes cover for direct consequential damages (cover details available by request).

The Sarnafil Product Guarantee is for the benefit of the Customer and cover includes all Sarnafil products supplied by Sika Limited including membrane, vapour control layers, filter and separation fleeces, fasteners, adhesive, outlets, etc. It is possible for the specifier to further enhance the cover of the Sarnafil Product Guarantee by specifying any combination of Sarnafil approved products manufactured by Sarnafil Branded Product Partners for thermal insulation (SarnaTherm), rooflights (SarnaLite) and fall arrest/fall restraint systems (Sarnafil Constant Force post, Sarnafil Green Roof Constant Force post, Sarnafil VersiRail freestanding guardrail) etc. Specifying these additional products provides a single point Sarnafil Extended Products Guarantee for all Sarnafil products and any Sarnafil Branded Product Partner approved products(s) actually used on the project. Sika Limited provides the client the additional comfort of direct loss cover for the approved products, which is not commonly available, from the Sarnafil Branded Product Partners. The Sarnafil Extended Products Guarantee will state which for Sarnafil or Sarnafil Branded Product Partners will not be covered by the Sarnafil Guarantee.

The 15 year Sarnafil Product Guarantee is supported by workmanship assurances provided by the Sarnafil Registered Contractor for the period of the Sarnafil Guarantee and whilst the contractor is trading. Due to the Financial Services Authority (FSA) now enforcing the EU Insurance Mediation Directive Sika Limited, like most construction product manufacturers, are no longer able to offer contractor workmanship or insolvency cover. If you do require to remove the risk of the workmanship cover not being in place in the event of insolvency on the part of the roofing contractor, due to unforeseen circumstances causing their liquidation within the guarantee period, then Sika Limited can provide contact details of an FSA approved insurance broker that can offer contractor insolvency insurance.

Sarnafil Product and Extended Products Guarantees are only issued after a final inspection of the works by the Sika Roofing Applications Department (the number of site visits is dictated by the size and complexity of the project and the experience of the installers) and Sika Limited also requires payment in full of all the project invoices. The final inspection is requested by the Sarnafil Registered Contractor on practical completion of the roofing contract. Additionally for ballasted/green roof projects an inspection must be requested and then

carried out by the Sika Roofing Applications Department prior to the covering of the Sarnafil membrane.

The Sarnafil Guarantee can be assigned by the holder, provided that Sika Limited is notified in writing, subject to conditions.

Sample copies of the various guarantee types are downloadable at www.sarnafil.co.uk

NB: The specifier, Client or Main Contractor should always request the Sarnafil Guarantee from the Sarnafil Registered Contractor and where a ballasted or green roof is specified they should ensure the Sika Roofing Applications Department is given the opportunity to inspect the roof membrane before it is covered.

8.0 Maintenance of Sarnafil Roofing Systems

Sarnafil membranes provide maintenance free roofs which are unaffected by standing water, accumulations of dirt or normal airborne concentrations of chemicals. The only maintenance required is the usual good husbandry of cleaning rainwater outlets and inspection for evidence of physical damage from outside sources. It is strongly recommended that there is an annual inspection of the roof, plus in late Autumn if the roof is near trees, an additional clear up of leaves and cleaning of the roof, as necessary. It is a guarantee requirement that the roof is inspected for damage after adverse weather that may reasonably have been suspected to have caused building damage. It is also advisable to inspect after work is carried out on the roof by other trades.

Maintenance of Sarnafil Extended Products

The specific published maintenance requirements of each Sarnafil Branded Product must be followed for continuity of that product's guarantee within the system. The Building Owner must ensure that the Sarnafil Constant Force post fall arrest system or the Sarnafil VersiRail freestanding guardrail systems (where applicable) are correctly maintained and inspected annually by an independent assessor and must not be used without such annual certification.

Product Information

The Material Safety Data Sheets (MSDS) for Sarnafil products are according to Regulation EC No 1907/2006 (REACH) and can be found at www.sarnafil.co.uk.

Cleaning

If required the membrane may be washed using a domestic detergent solution applied with soft brooms and rinsed well using fresh water. No other treatment is necessary.

Where a ballasted roof has been installed the ballast may accumulate dirt and algae growth. As commercial cleaners or fungicides may contain chemicals detrimental to Sarnafil products, their make-up should be carefully checked against the appropriate Sarnafil membrane chemical compatibility chart before use. If in any doubt consult the Sika Roofing Technical Services Department (Tel: 01707 358500).

Chemical Spillages

On roofs where plant is installed chemical spillage is always a possibility. In the event of such an accident the area should be well washed down with a domestic detergent solution and flushed with fresh water until all traces of the chemical have been removed from the membrane surface. If in any doubt consult the appropriate Sarnafil membrane chemical compatibility chart or contact the Sika Roofing Technical Services Department.

Mastic Joints

Sarnaplast silicone mastic sealing to upstands or other details may need replacing as the joints fatigue or weather, typically after 10 years. Such work must be undertaken by a Sarnafil Registered Contractor, removal of all of the old mastic and the correct priming of the surfaces to receive the new Sarnaplast is essential.

Sarnafil Liquid Detailing System
Additional top coat of the Sarnafil Liquid Applied Detailing System can be installed to prolong the life beyond 15 years. Such work must be undertaken by a suitably trained Sarnafil Registered Contractor and correct preparation of the surfaces to receive the coating, is essential.

Physical Damage
In common with any other roof finish, Sarnafil membranes are liable to physical damage if abused. On Sarnafil membranes however, this damage can be easily located and permanently repaired by a Sarnafil Registered Contractor. An up-to-date list of such Sarnafil contractors can be obtained from Sika Limited (we recommend that the original installing contractor should be used whenever possible to avoid split responsibility for workmanship).

Obviously it is not always possible to arrange an immediate repair by an outside agency. Under normal conditions the following first aid action will provide temporary protection until permanent repairs can be effected.

1. Clean off the area surrounding the damage and dry well.
2. Apply self-adhesive tape (e.g. Sarnafil foil tape) over the damaged area.

The minimum acceptable size of Sarnafil repair should be 300mm x 300mm membrane with rounded corners.

NB: Under no circumstances should repairs be attempted using bitumen based products.

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9.0 List of Registered Contractors

GHB Roofing Contractors, Unit 68, Claydon Business Park, Ipswich, Suffolk IP6 ONL, Tel: 01473 830865, Fax: 01473 831849, E: Michael@ghb-roofing.co.uk

Roofing Contractors (Cambridge) Ltd, Unit 5 Winship Road, Winship Ind Est, Milton, Cambs CB24 6BQ, Tel: 01223 423059 Fax: 01223 420737, E: Dave@rcc-cambridge.co.uk, dan@rcc-cambridge.co.uk, info@rcc-cambridge.co.uk.

Voland Asphalte Co Ltd, The Old Highways Depot, Twenty Pence Road, Cottenham, Cambs CB4 8SP Tel: 01954 250044 Fax: 01954 252455, E: velena@volandroofing.co.uk

Companies are selected, trained, monitored and listed as Sarnafil Registered Contractors based on our knowledge and experience which does not confer the suitability of any contractor for all, or any, particular project. It is the responsibility of users of this list to undertake their own evaluation of the suitability and commercial probity including insurance cover of any contractor before entering into contractual arrangements.

Sika Limited are members of the Single Ply Roofing Association and abide by its Code of Conduct.