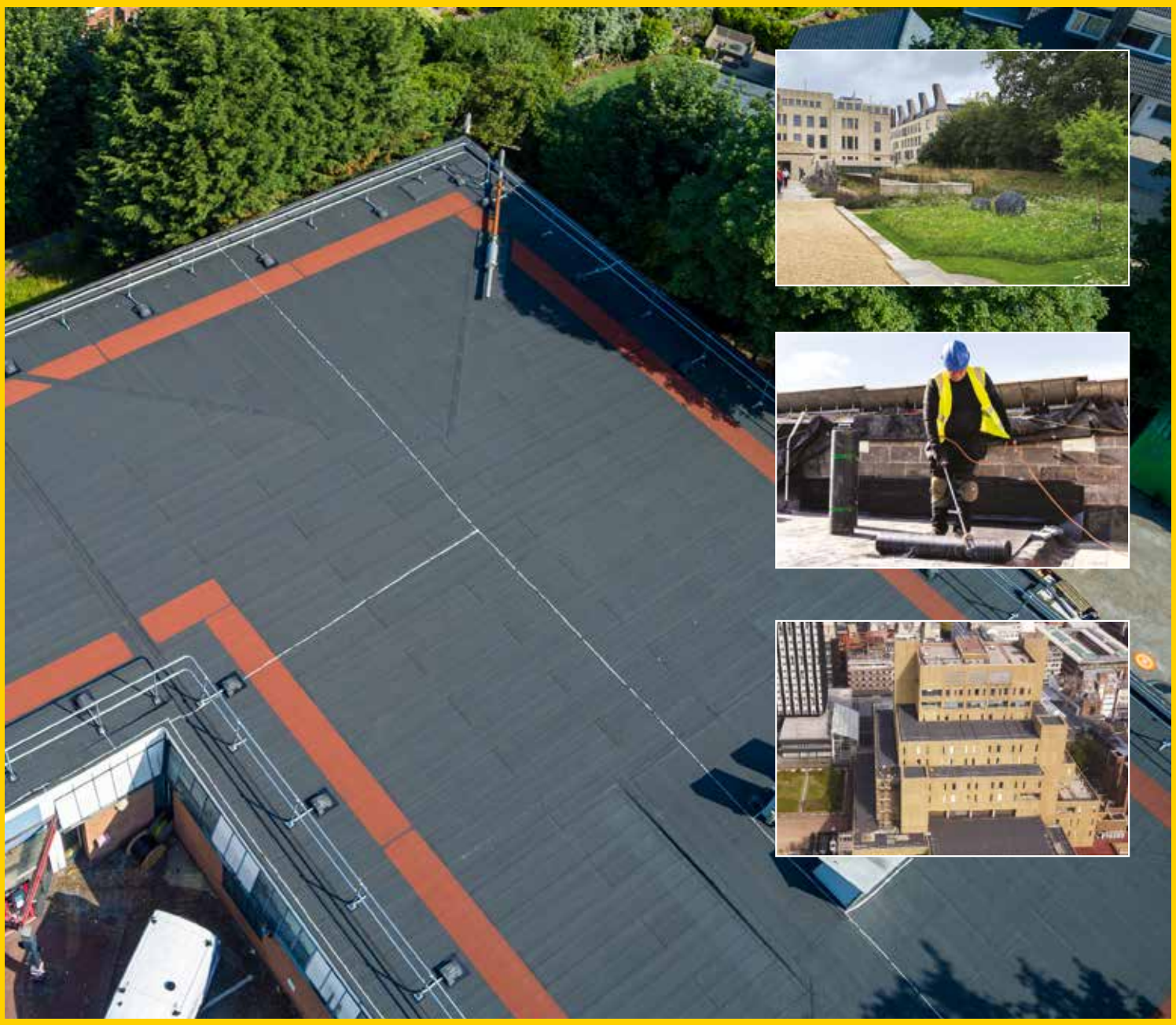


ROOFING
SikaShield®
BITUMINOUS ROOFING SYSTEMS

BUILDING TRUST

SikaShield®
BITUMINOUS MEMBRANES

Bituminous membranes to suit a range of applications for flat roofs, decks and podiums

Roof structures are regularly exposed to environmental factors such as UV radiation, temperature fluctuations, and precipitation, which may contribute to material degradation over time. The roof plays a key role in protecting internal spaces and occupants, and its performance is dependent on appropriate design, installation, and maintenance in line with relevant industry standards.

In the UK, bitumen makes up over approximately
55%
of the flat roof market.

Reinforced bituminous membranes are commonly specified for use in flat roofs, green roofs, terraces, and podiums, where a tested and verified waterproofing layer is required.

SikaShield® reinforced bituminous membranes are fully bonded to the substrate, forming part of a roofing system designed for durability and verified performance.





SikaShield® bituminous membranes are designed for use in roofing systems where environmental exposure is a key consideration. Performance characteristics - such as resistance to moisture and temperature variation - are supported by testing to relevant standards.

NEW BUILD FLAT ROOFS



FLAT ROOF REFURBISHMENT



TERRACES/PODIUMS



GREEN ROOFS





SikaShield®

Features and benefits

SikaShield® membranes are available in a range of system configurations to meet defined project design and specification requirements. Each membrane incorporates a tailored blend of polymers and reinforcement types to deliver specific material properties, such as cold flexibility, heat resistance, and compound stability - validated through testing in accordance with BS EN 13707:2013. These characteristics support the waterproofing performance of the system under a range of temperature and environmental conditions - including exposure to wind, snow, and hail.

The SikaShield® range includes membranes with plain or mineral finishes to support specific application needs. Smooth finishes promote effective bonding of subsequent layers, while mineral granules contribute to surface durability and resistance to environmental factors such as UV exposure.

CCPI

SikaShield® Pro systems have been awarded the CCPI mark, indicating that the product information has been independently verified against the 11 Clauses of the Code for Construction Product Information. This recognition supports greater transparency and helps specifiers access clear, accurate and reliable information when selecting systems for both new build and refurbishment projects.

Safe2Torch Compliant

Safe2Torch is an NFRC campaign to promote best practice when designing and installing roofs. The guidelines clearly explain roof areas where it is not safe to torch. These include:

- Timber roof decks and roof areas with timber upstands or timber fillets
- Hanging tiles
- Thatched roofs
- Rooflight kerbs and upstands
- Cladded areas
- Lantern rooflights
- Window sills
- Any confined space

The guidelines also caution against the use of torch-applied systems where there is any possibility that the flame could ignite concealed flammable materials in inaccessible areas, such as:

- Louvered vents, air ducts, intakes and outtakes
- Timber, DPC, or sarking membranes beneath fixed metal capping systems
- Existing kitchen extraction plant that is coated in oils or fats
- Flammable wrapping to trunking or ducting
- Existing metal or plastic copings or cappings
- Existing vulnerable plastic curbs, domes or pipes

To comply with Safe2Torch guidelines, hot air applied or self-adhesive membranes must be used on any areas within 900mm of these high-risk locations, and a correct installation technique must be used in order to guarantee the safety and security of installation teams, occupants, and the building fabric.

NFRC LEADING ROOFING EXCELLENCE

Safe2Torch

System Build-Up



1. Upper layer: mineral, sand, or polyethylene film
2. Bituminous compound
3. Reinforcement: fibreglass, polyester and/or aluminium
4. Bituminous compound
5. Under layer: foil (torch layer) or removable film (self-adhered)

The combination of all these layers can offer the membrane a variety of qualities by changing the heat resistance, flexibility, viscosity, softness and mechanical resistance.

Hafod Eryri, Yr Wyddfa

SikaShield® Pro



SikaShield® Pro



The SikaShield® Pro range of reinforced bituminous membranes combines the flexibility and tensile strength of SBS-modified compounds with the UV-resistant properties of APAO. These systems are designed to deliver verified waterproofing performance in accordance with BS EN 13707:2013 and are compatible with a range of application methods, including torch-on and cold-applied techniques.

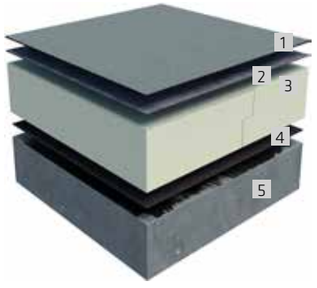
SYSTEM FEATURES:

- Torch-on and self-adhesive bituminous membranes available for a range of roofing applications
- Hybrid cap sheet incorporating SBS and APAO-modified bitumen to deliver defined flexibility and UV resistance, supported by testing to BS EN 13707:2013
- Classified BROOF(t4) in accordance with BS EN 13501-5:2016 for specific system build-ups
- Independently assessed and certified by the British Board of Agrément (BBA Certificate No. 19/5716)

SikaShield® Pro



SikaShield® Pro
WARM ROOF BUILD-UP (REINFORCED BITUMINOUS MEMBRANES)



1. SikaShield® HB79 MG 4mm or SikaShield® E79 MG SA 4mm
2. SikaShield® E74 PE SA 3mm
3. Sikatherm® Insulation
4. SikaShield® Air & Vapour Control Layer
5. Structural Deck

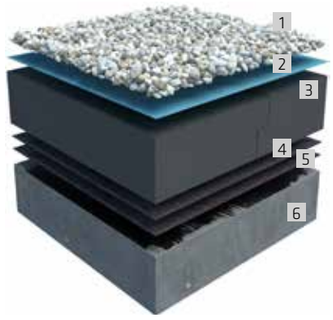
GREEN ROOF SYSTEM BUILD-UP



1. Living element
2. Substrate
3. Filter Fleece
4. Drainage Board
5. Protection Fleece
6. SikaShield® E-KV-5S-wf/Premium
7. SikaShield® E74 PE SA 3mm
8. Sikatherm® Insulation
9. SikaShield® Air & Vapour Control Layer
10. Structural Deck



SikaShield® Pro
INVERTED ROOF BUILD UP (REINFORCED BITUMINOUS MEMBRANES)



1. Ballast/Paving
2. Water Flow Reduction Layer
3. Sikatherm® Insulation
4. SikaShield® HB79 Tex 4mm
5. SikaShield® E74 PE SA 3mm or SikaShield® E54 PE 3mm
6. Structural Deck

SikaShield® Pro Benefits

BBA 35+ YEARS
BBA certified product life expectancy 'In excess of 35 years'

100 YEARS
100 Years bitumen expertise

Hybrid capsheet - SBS and APAO technology

30
30 Year Performance Plus Guarantees available (subject to conditions)

Technical services and on-site support

Safe2Torch
Safe2torch compliant

SikaShield® Classic

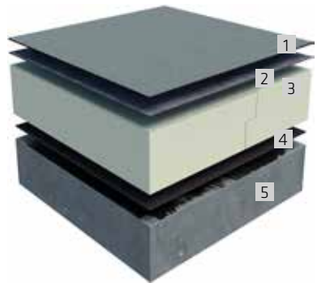




The SikaShield® Classic range of reinforced bituminous membranes is developed using APP-modified bitumen. This formulation supports application using heat-applied methods and contributes to the membrane's performance characteristics, including flexibility and thermal stability, as verified through testing to relevant standards.

The SikaShield® Classic range includes self-adhesive membranes designed for flame-free installation methods, supporting specifications aligned with Safe2Torch guidance. These systems are suitable for use in environments where hot works are restricted, subject to correct installation and project-specific assessment.

SikaShield® Classic
WARM ROOF BUILD-UP (REINFORCED BITUMINOUS MEMBRANES)



1. SikaShield® P65 MG 4mm or SikaShield® P65 MG SA 4mm
2. SikaShield® E64 PE SA 3mm
3. Sikatherm® Insulation
4. SikaShield® Air & Vapour Control Layer
5. Structural Deck

SYSTEM FEATURES:

- Torch-on and self-adhesive bituminous membranes available for a range of roofing applications
- APP-modified bitumen to deliver defined flexibility and UV resistance, supported by testing to BS EN 13707:2013
- Classified BROOF(t4) in accordance with BS EN 13501-5:2016 for specific system build-ups
- Independently assessed and certified by the British Board of Agrément (BBA Certificate No. 25/7496.

SikaShield® Classic Benefits

BBA 35 YEARS
BBA certified product life expectancy 'In excess of 35 years'

100 YEARS
100 Years bitumen expertise

20
20 Year Performance Guarantees available (subject to conditions)

Technical services and on-site support

APP technology

Safe2Torch
Safe2torch compliant

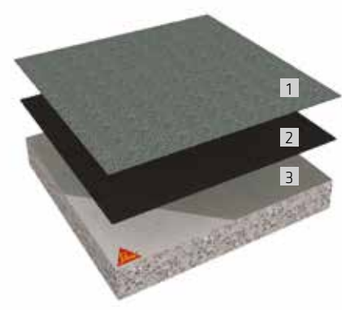
SikaShield® Classic

SikaShield® Essential





SikaShield® Essential BUILD-UP



1. SikaShield® P44 MG HP 4,5 kg/m²
2. SikaShield® P44 T HP 3mm
3. Existing Roof Build Up

Like the SikaShield® Classic range, the SikaShield® Essential range uses APP-modified bitumen.

It is intended for use in refurbishment applications such as canopies, storage areas, or other existing roofs where thermal performance upgrades are not required.

As a cost-effective option within the SikaShield® portfolio, the Essential range is suited to projects with straightforward design requirements and includes access to standard installation guidance.

SikaShield® Essential Benefits

100 YEARS
100 Years bitumen expertise

15
Product Guarantees Up to 15 years

Technical services and on-site support

SikaShield® Essential

ABERDEEN MORTUARY

Hot Melt Structural Waterproofing



HOT MELT STRUCTURAL WATERPROOFING



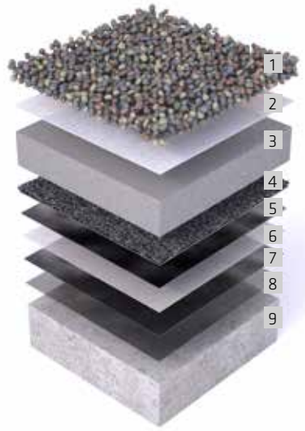


In an inverted roof build-up, the waterproofing layer is positioned beneath a loose-laid surface finish - such as ballast or paving slabs - which helps shield it from direct exposure to environmental conditions. This configuration can contribute to the long-term performance of the system, subject to correct specification and installation.

Hot melt structural waterproofing is commonly used in this type of build-up. Where insulation is included, it is installed above the waterproofing layer and must be suitable for exposure to moisture and temperature variation. Closed-cell insulation materials such as cellular glass, XPS, and EPS are typically selected for this purpose.

To support effective drainage and maintain insulation performance, a Water Flow Reduction Layer (WFRL) should be installed in accordance with project-specific design and manufacturer guidance.

INVERTED ROOF BUILD UP (HOT MELT STRUCTURAL WATERPROOFING)



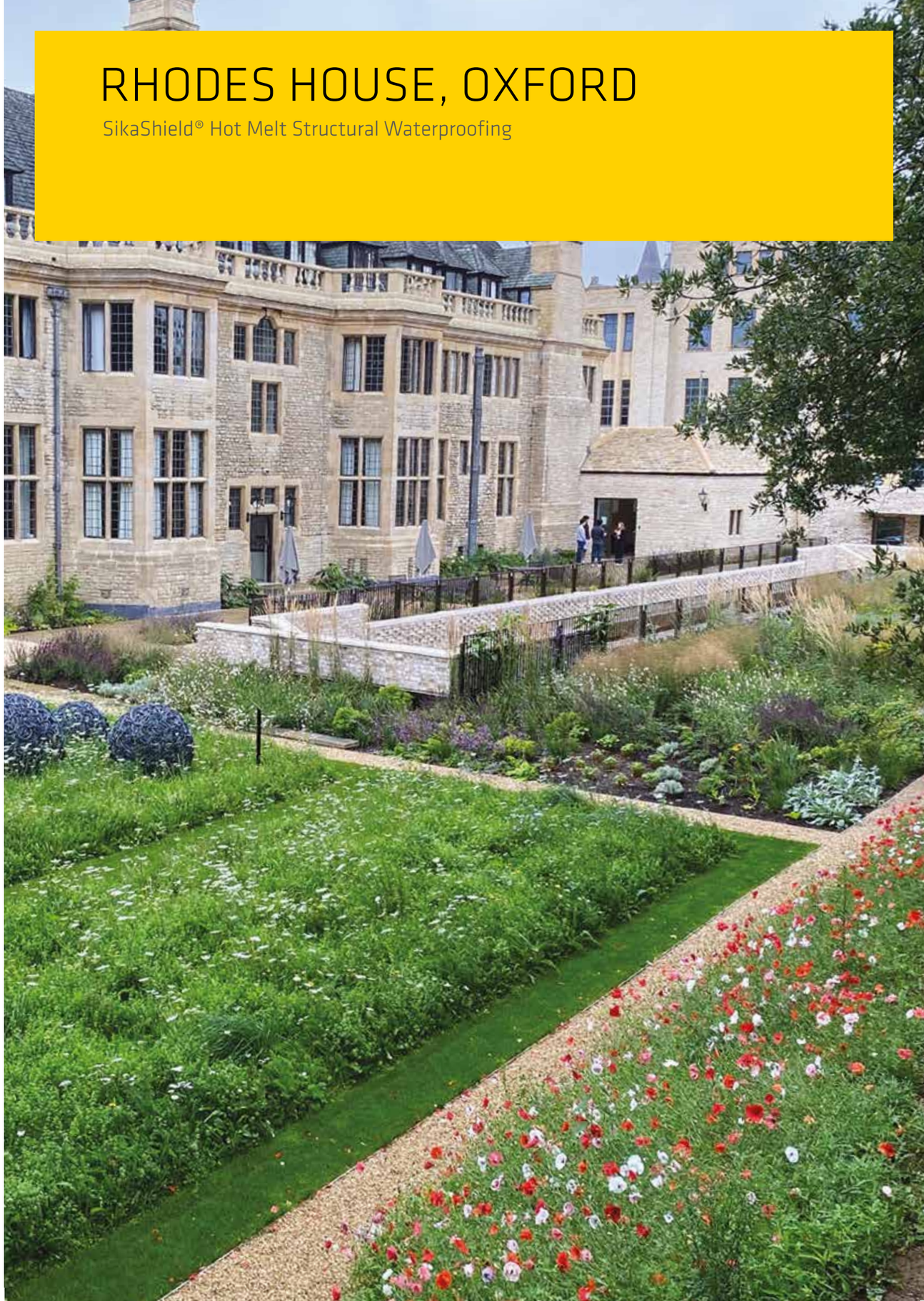
1. Ballast/Paving
2. Sika Water Flow Reduction Layer
3. Sikatherm Insulation
4. SikaShield® Access/ Protection Layer
5. SikaShield® Hot Melt Structural Waterproofing
6. SikaShield® Roof F-50 Reinforcement Fleece
7. SikaShield® Hot Melt Structural Waterproofing
8. Sika®Roof Primer
9. Structural Deck

SikaShield® Hot Melt Structural Waterproofing Benefits

- Durability of design life of the roof
- Can be installed year-round
- Non tracking-monolithic
- A range of Guarantees available (subject to conditions)
- Technical services and on-site support

RHODES HOUSE, OXFORD

SikaShield® Hot Melt Structural Waterproofing



ADDITIONAL PRODUCTS

A full range of accessories are available to complete the waterproofing systems, such as vertical and horizontal outlets and cable access pipes for safe integration of roof openings such as ventilators, railing supports, guardrails, lightning protection, etc.

ROOFING INSULATION
Insulation is a key consideration in most new build and refurbishment projects. Guidance on where insulation is required, and the thermal performance standards that apply, can be found in Approved Document L of the Building Regulations. This includes information on target U-values for different roof types and construction scenarios.



APPROVED DOCUMENT L
These regulations are subject to periodic updates, therefore the latest version should always be consulted for current thermal performance requirements.

The Sikatherm® range includes insulation types suitable for a variety of flat roofing applications, including mechanically fixed, adhered, and ballasted systems. Sikatherm® products are compatible with Sika waterproofing systems, including reinforced bituminous membranes, hot melt structural waterproofing, single ply, and liquid-applied membranes. The range includes flat board options as well as bespoke tapered insulation schemes for applications where falls are required. For inverted roof build-ups, closed-cell insulation types such as EPS, XPS, and cellular glass are available.

Sika provides project-specific thermal calculations and condensation risk analysis to support compliance with design requirements and regulatory guidance.

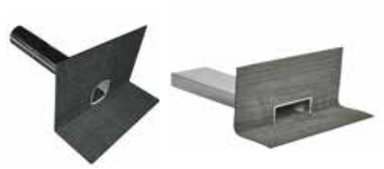
SikaShield® Overflow UK



SikaShield® Drain and Renovation Drain



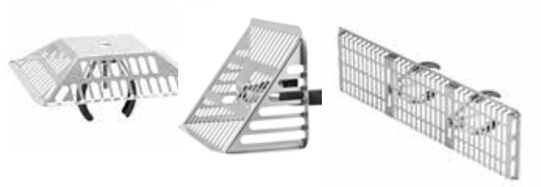
SikaShield® Scuppers Round and Square



SikaShield® Roof Insulated Outlet
(specifically for use with our Hot Melt Structural Waterproofing systems)



SikaShield® Leaf Guards Vertical, Round and Square



Sika Service and Support



RANGE OF GUARANTEES
At Sika Roofing, we offer a range of very comprehensive guarantees for projects.

Our Product Guarantee provides comprehensive cover that the membranes supplied fulfil their waterproofing function, and that all other Sika branded products are compatible with the membranes and fulfil their respective function within the roof build-up.

Our Performance and Performance Plus Guarantees incorporate bespoke design factors such as wind load calculations, U-value calculations and condensation risk analysis and bespoke project details. Design and specifications are backed by our Professional Indemnity (PI) Insurance.

STRAIGHTFORWARD TERMS AND CONDITIONS
Our terms and conditions are laid out in a very easy to understand manner and are included in every guarantee.





TRAINED ROOFING CONTRACTORS
When we offer a guarantee, we specify that the whole system must be installed by a Sika Certified Roofing Contractor or Verified Contractor. This gives our clients the peace of mind that the installing contractor has been trained to use our products correctly and safely. These projects will also be thoroughly inspected by our Sika Technical Site Support Team before guarantees are issued. Our highly experienced Site Support Engineers are entirely dedicated to training our contractors and carrying out comprehensive site inspections. This is a free of charge service and is a requirement of the guarantee.

SIKA ROOFING TECHNICAL SERVICES
The Roofing Technical Services Team provides support by checking and producing SikaShield® specifications, drainage and insulation cut to falls and U value calculations. In addition they will be able to assist in providing CAD drawings and Health and Safety information. The team are also there to check material orders and to answer any of your technical queries.



HILLSIDE COOP SCHOOL, BIRKENHEAD

SikaShield® Pro

SIKA FULL RANGE SOLUTIONS:


LIQUID APPLIED ROOFING


SINGLE PLY ROOFING


BITUMINOUS ROOFING


CONCRETE


CONCRETE REPAIR


STRUCTURAL STRENGTHENING


BUILDING FINISHING


WATERPROOFING


JOINT SEALING


FAÇADES


FLOORING


INDUSTRY


DISTRIBUTION


MODULAR/OFFSITE

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. Sika has a global leading position in the development and production of systems and products for bonding, sealing, damping, reinforcing, and protection in the building sector and motor vehicle industry. Sika has subsidiaries in 102 countries around the world and, in over 400 factories, produces innovative technologies for customers worldwide. In doing so, it plays a crucial role in enabling the transformation of the construction and vehicle industries toward greater environmental compatibility. In 2025, Sika's 33,700 employees generated annual sales of CHF 11.20 billion (£10.35 bn).

In the UK and Ireland, we provide market-leading solutions for building finishing, concrete, waterproofing, roofing, flooring, refurbishment, sealing & bonding, and industry, and have manufacturing sites in Welwyn Garden City, Preston, Leeds, Wishaw, Redditch, Goole and Dublin with 1000 employees and a turnover of more than £306 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. Please refer to our homepage www.sika.co.uk for our current standard terms & conditions applicable to all orders. 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.

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BUILDING TRUST

TM ROOFING/SIKASHIELD BROCHURE DATE PRODUCED APRIL 2026