Radmat®
building products

GUARANTEED ROOFING SOLUTIONS

Company Overview

Specialists in roofing and waterproofing

Sky Garden, Walkie Talkie, London
Architects: Rafael Viñoly Architects

Welcome

Specialists in roofing and waterproofing

Radmat Building Products is an independent British company providing waterproofing and insulation systems that will provide a lifetime's protection for your building's structure.

Our high performance materials, including *PermaQuik* and *ProTherm Quantum*, offer extensive and revolutionary potential for architects, consulting engineers and quantity surveyors and are incorporated within some of the UK's most iconic landmark buildings.

We are committed to providing superior roofing and structural waterproofing products combined with exceptional technical support to the specifier and construction team.

Radmat®
building products

www.radmat.com

Westfield Centre, Shepherd's Bush
Architects: Allies & Morrison

About us

A lifetime's protection for your building's structure

Our high performance waterproofing materials, including *PermaQuik Hot Melt Monolithic waterproofing*, *Esha Reinforced Bitumen Membranes*, *ParaFlex Liquid Applied Coating* and *EshaPlan Single Ply Membranes* are backed by comprehensive guarantees and technical support.

Supplying only through *Radmat Approved Contractors* we provide complete design and technical support to the entire construction team, aiding delivery of the right solution at the right price. Whether new build or refurbishment our focus is on providing the most suitable waterproofing solution, taking into consideration requirements such as design, aesthetics, thermal performance, budget, build ability, drainage requirements, wind uplift resistance, safety programme and ultimate client use.

Our long standing relationships with some of the UK's leading clients, specifiers, surveyors, main contractors and specialist roofing contractors bear testimony to our levels of commitment to doing the job right first time, an attitude that has benefitted many prestigious projects across the United Kingdom.

The Westfield Centre, Shepherds Bush, London has one of the largest roofs ever designed in central London. With a huge choice of possible waterproofing systems, *PermaQuik* was chosen to provide the long term security necessary to protect some of the most expensive areas of retail space in the world.

Crossrail Place, Canary Wharf
Architects: Foster + Partners

Services

Whether new construction or refurbishment Radmat Building Products supplies guaranteed roofing solutions tailored to the individual needs of the application.

Radmat supply a range of waterproofing systems that support our objective of providing the most applicable solution for every project. To enable us to establish the correct specification for an individual project requires a range of specialist support services, including; bespoke NBS specifications, CAD details, site surveys and application inspections, all delivered with professionalism and backed by expertise borne from years of experience.

Whether new construction or refurbishment Radmat Building Products supplies guaranteed roofing solutions tailored to the individual needs of the application.

We pride ourselves on the caliber and technical experience of our staff, who have extensive experience in all forms of flat roofing technology, insulation materials and contracting: enabling Radmat to offer extensive technical support at all stages of the construction process, supporting the development of appropriate and effective roofing and waterproofing solutions. Whether writing a specification, commenting on design details or discussing the most appropriate solution we are committed to agreeing designs that are practical and cost effective, to specifying the most buildable solution for the application and to supporting installation by our expert *Approved Contractors*.

For comprehensive support for your roofing projects contact
Radmat Building Products
Tel: **01858 410372**
techenquiries@radmat.com
www.radmat.com

Crossrail Place, Canary Wharf, London
Extending more than 300 metres along the north dock, the above ground scheme includes four levels of shops, cafes and restaurants, as well as extensive public gardens, which are densely populated with trees and plants. The waterproofing materials were supplied by Radmat using *PermaQuik 6100, Radmat Root Barrier, ProTherm G and ProTherm S insulation.*

Radmat Product Range

The Walkie-Talkie, 20 Fenchurch Street, London | Rafael Viñoly Architects

Entrusted to roof the UK's iconic buildings

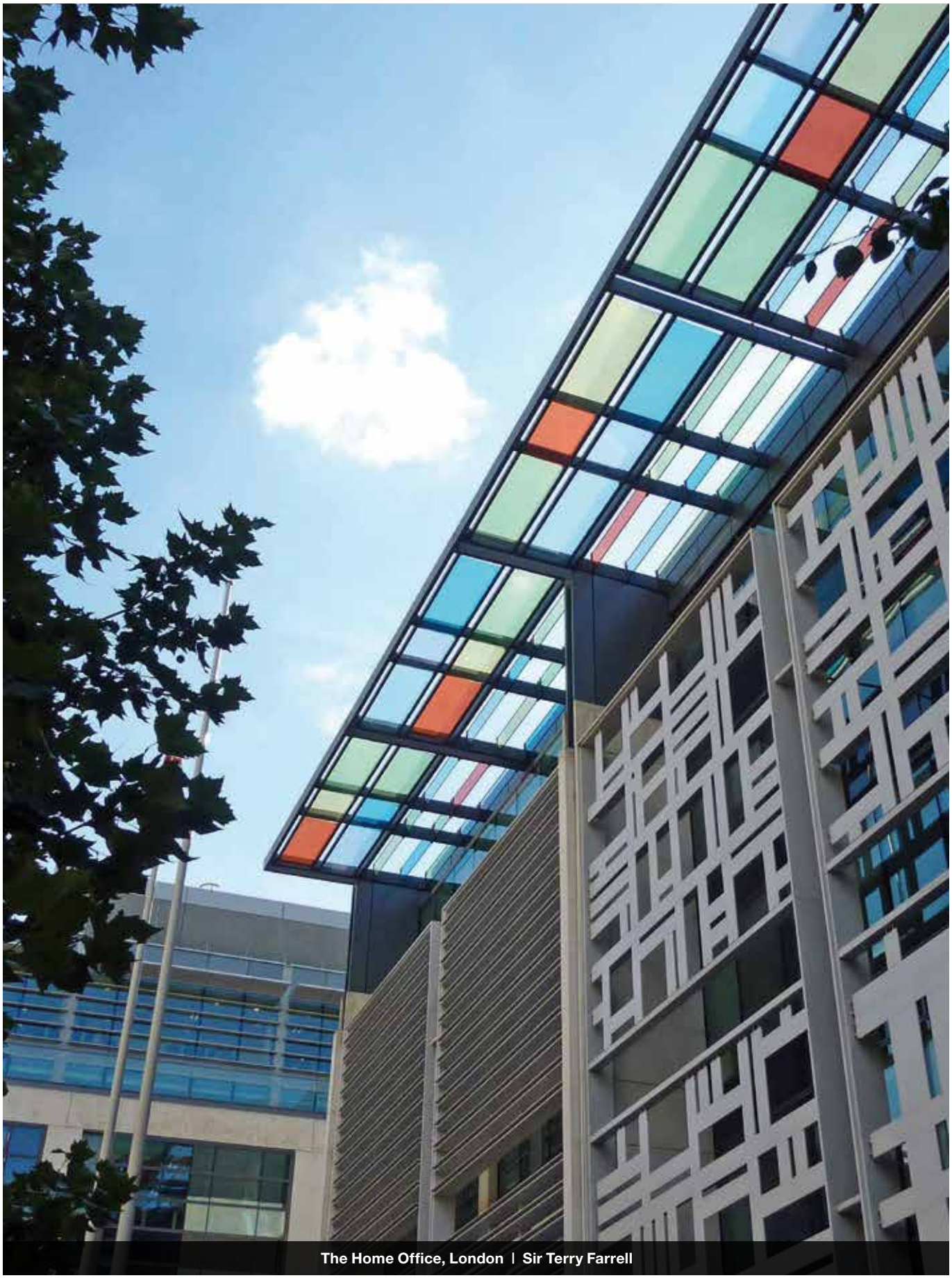

Canary Wharf, London | Foster + Partners


Arup, One New Change, London | Ateliers Jean Nouvell


Library of Birmingham | Mecanoo


GCHQ, Cheltenham | Gensler


City Hall, Southbank, London | Foster + Partners



The Home Office, London | Sir Terry Farrell

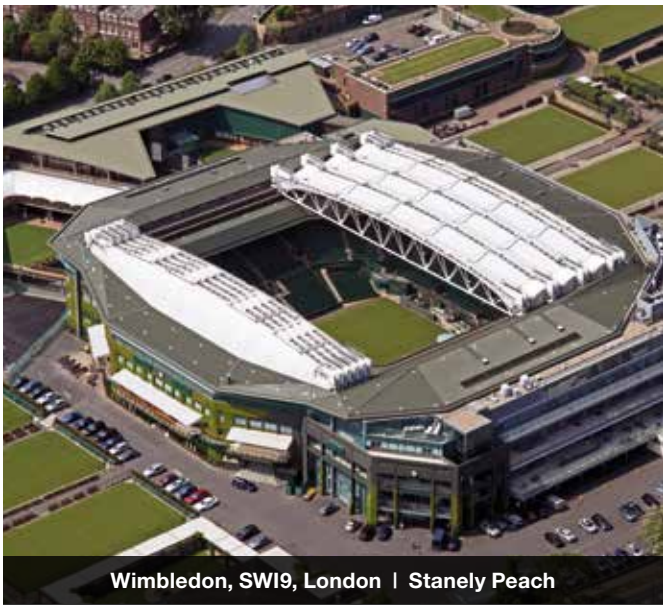
The Deep Aquarium, Hull | Sir Terry Farrell

Scottish Parliament, Edinburgh | Enric Miralles

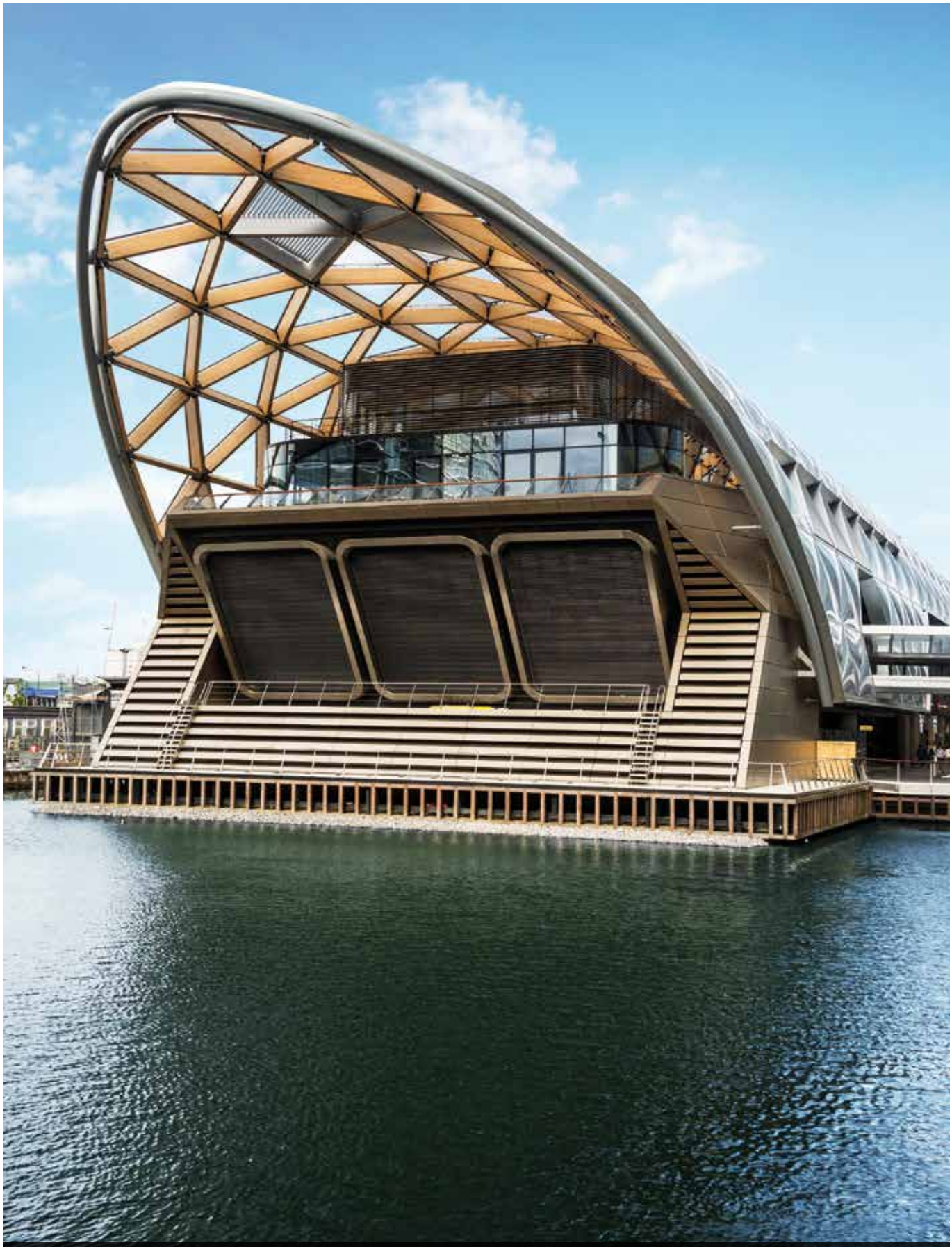
The Willis Building, 51 Lime Street, London | Foster + Partners

Civil Justice Centre, Manchester | Denton Corker Marshall

The Treasury Building, London | Foster + Partners



Wimbledon, SWI9, London | Stanely Peach



Crossrail Place, Canary Wharf, London | Foster + Partners

University College London Hospital | LDY Architects

St Mary Magdalene Academy | FieldenCleggBradleyStudios

Paternoster Square, London | Various architects

Westfield Centre, Shepherd's Bush | Allies & Morrison

Alder Hey Children's Hospital, Liverpool | BDP

Francis Crick Institute, London | HOK with PLP Architecture

PermaQuik™ Hot Melt Monolithic Membrane

PermaQuik PQ6100 is a hot melt monolithic membrane roofing system suitable for inverted roof, basement and podium waterproofing applications; including zero falls applications.

Applied in two layers that encapsulate the PQ2017 polyester reinforcing fleece, PermaQuik PQ6100 combines excellent waterproofing performance with toughness, durability, flexibility and strong adhesion to a variety of substrates.

Developed in Canada in the 1960's, PermaQuik PQ6100 is manufactured in the UK following extensive research and development with Shell UK in our ISO14001 production facility. Its unique blend of bitumen, natural rubbers and polymers create a membrane that has self-healing properties, can be installed to zero falls in accordance with BBA Information Bulletin No 4 and has a BBA Certified durability for 'the design life of the roof in which it is incorporated'.

BBA APPROVAL INSPECTION TESTING CERTIFICATION
TECHNICAL APPROVALS FOR CONSTRUCTION

Certificate No 97/3336

The new **Library of Birmingham** installation used *PermaQuik PQ6100 Hot Melt Monolithic* waterproofing system, set to deliver exceptional performance befitting of the uniquely designed structure which has set a remarkably high standard for library design.

PermaQuik™ Hot Melt Monolithic Membrane

GCHQ building, Cheltenham
Beneath the central green roof at GCHQ, *PermaQuik* was specified to provide a lifetime of waterproofing security.

- **Completely seamless monolithic bond so water cannot track within the system**
- **Upstands can be installed first allowing other trades to swiftly progress with the building's fabric**
- **Excellent low-temperature flexibility and adhesion characteristics**
- **Once covered with a protection sheet can be opened up to following trades delayed by inclement weather and speeding up site programming**
- **High compressive strength – ideal for high trafficked areas and plant rooms**
- **Self-heals minor damage under applied loads**
- **Quick application and no curing time leaves roofs instantly water tight**

Installed to achieve a minimum thickness of 6mm, PermaQuik PQ6100 is finished with either a standard or root prevention wearing sheet prior to being electronically tested. In Inverted roof applications Radmat ProTherm Inverted Roof Insulation board and Grey Thermal Sheet water control layer are installed prior to the chosen surface finish. A range of finishes are possible, including paving, ballast, timber decking and Radmat MedO living green roofs.

In accordance with the LRWA Hot Melt Code of Best Practice a flexible neoprene strip is applied to the angle changes at perimeters and detailing, this facilitates minor movement and prevents cracking. Perimeter upstands are finished with ProTherm SD Upstand Board, an extruded polystyrene foam insulation factory laminated to a 6mm thick weather resistant high impact facing board, installed to provide an aesthetic thermal finish that prevents cold bridging.

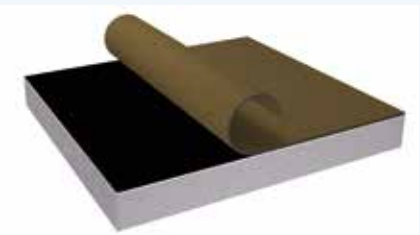
Fully bonded inverted roofing systems including zero falls applications

- Roofs
- Balconies
- Podiums
- Terraces
- Paved finish
- Ballasted finish
- Timber deck finish

Fully bonded inverted living green and biobidiverse roofing systems including zero falls applications.

- Roofs
- Balconies
- Podiums
- Terraces
- Inverted Amenity Roofs
- Biodiverse Wildlife Roofs
- Wildflower/ Extensive Sedum Roofs

PQ6100/PQ2017 Reinforcing Fabric



PQ6100/PQ1800 Protection SheetPQ6100

Installing EshaFlex or EshaGum Reinforced Bitumen Membranes reduces installation times by up to 30%

EshaFlex SBS and EshaGum APP are innovative modified reinforced bitumen membranes engineered to meet the demands of the 21st Century.

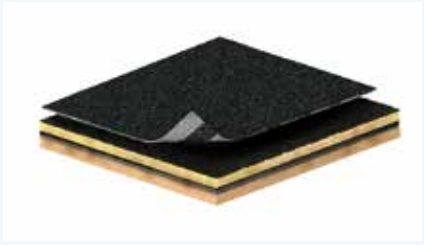
Achieving Green Guide to Specification A+ ratings, and BBA Certified for a life expectancy in excess of 30 years, environmental credibility and ease of installation are supported by patented 'groove technology'. This technology typically reduces gas consumption by 25% (45 grams per m^2), reduces CO_2 production by 168 g/m^2 and reduces installation times by up to 30%.

BBA APPROVAL INSPECTION TESTING CERTIFICATION
TECHNICAL APPROVALS FOR CONSTRUCTION

Certificate No 15/5282

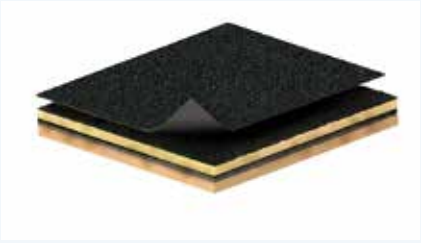
Marner Primary School is Tower Hamlets' largest and most ambitious primary school expansion project. Radmat provided the roofing materials and services for the new roof. Products used were: *MedO Extensive Sedum*, *EshaFlex 370 Black Mineral*, *EshaFlex 370 WS Mini Slate* and *EshaVent*.

Single Layer Overlay Systems for existing roofs



EshaFlex TK60 Cap Sheet

Partially Bonded: *EshaFlex TK60* vapour pressure distribution cap sheet installed over a suitably prepared existing roof to prolong the life.

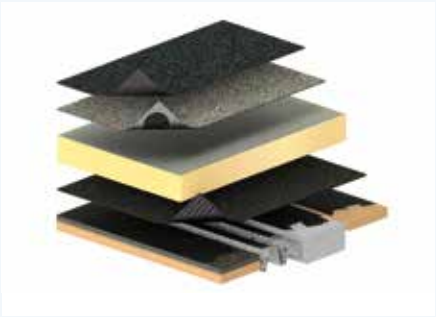


EshaFlex 370 Black Mineral Cap Sheet

Fully Bonded: black mineral finished *EshaFlex 370 Black Mineral* cap sheet fastened through a suitably prepared existing roof construction to the substrate.

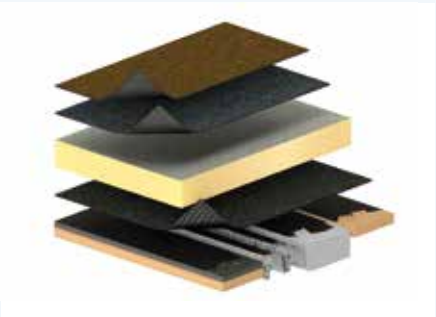
Mechanically Fixed: black mineral finished *EshaFlex 370 MF* cap sheet fastened through a suitably prepared existing roof construction in to the substrate.

Upgrade Systems for new or existing roofs



EshaVent with EshaFlex 370 Cap Sheet

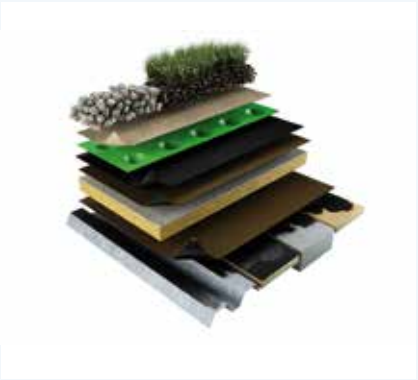
Partially Bonded: two layer systems combining *EshaVent* or *EshaTherm TK40* thermo adhesive vapour pressure layers with a mineral finished *EshaFlex 370* or *EshaGum 470* cap sheet.



EshaFlex 370 Base sheet with EshaGum 470 Cap Sheet

Fully Bonded: sand finished EshaFlex 370 'Plain' or EshaGum 470 'Plain' base sheet with a mineral finished EshaFlex 370 or EshaGum 470 cap sheet.

Green Roof Systems for new or existing roofs



EshaFlex 370 Plain Base sheet with EshaGum 370 WS Mini Slate Cap Sheet

Sand finished *EshaFlex 370 'Plain'* base sheet and FLL Certified *EshaFlex 370 WS Mini Slate* cap sheet either partially bonded, fully bonded or mechanically fastened and finished with a Radmat MedO extensive, biodiverse or intensive green roof system, subject to loadings.

Inverted, Paved and Ballasted systems for new & existing roofs

Two layers of sand finished *EshaFlex 370 'Plain'* or *EshaGum 470 'Plain'* fully bonded prior to the installation of the surface finish. In an Inverted roof *Radmat ProTherm insulation* and *Grey Thermal Sheet* are installed prior to application of the roof finish. In a warm roof the finish is applied directly over the completed roof membrane, subject to loadings.

Certificate No 14/5085
and Certificate No 15/5219

Used widely throughout Europe and the UK since the 1970's, **EshaPlan** single ply membranes provide design freedom whilst achieving long term waterproofing integrity and high levels of environmental performance.

Suitable for flat, pitched, curved or geometrically shaped roofs in both new build and refurbishment applications, EshaPlan membranes are BBA Certified for 'in excess of 30 years', can achieve a BRE Green Guide to Specification A+ ratings and incorporate factory recycled production waste.

Below: *EshaPlan MF* was used to cover the large flat roof on this building in Grand Couronne, France.

Available in Light Grey (RAL7001) and Lead Grey (RAL7015) as standard, other colours available to order, EshaPlan membranes are completed by a range of compatible accessories including; unreinforced detailing membrane (EshaPlan D), membrane coated metal (EshaMetal) and a range of adhesives, compatible rainwater outlets and lightning conductor clips.

Top Right: *EshaPlan B*
Bottom Right: *EshaPlan B* with *Profile 25*

Single Layer Overlay Systems for existing roofs

EshaPlan MF is a polyester carrier reinforced mechanically fastened PVC-P single ply membrane that is typically installed on larger scale warm roof constructions where speed of installation is a key requirement on projects where wind uplift is high. Available in rolls up to 2.12m wide and 20m long, and a range of thicknesses from 1.2mm to 2.0mm, *EshaPlan MF* is attached to the substrate using thermally broken fasteners installed at project specific pre-determined centres to achieve a fast method of attachment without thermal bridging. Subsequent rolls will overlap the fastening zone and be hot air welded together to produce a sealed seam that is stronger than the membrane itself.

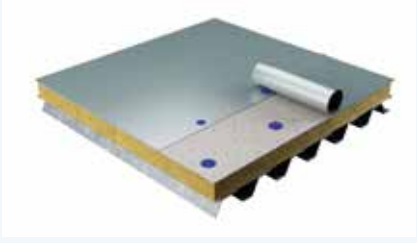
Fully Bonded

EshaPlan B and EshaPlan FB are glass fibre reinforced bonded PVC single ply membranes typically used on smaller scale warm roofs.

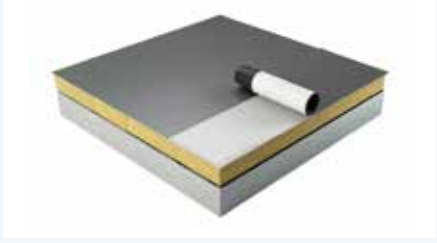
Where aesthetics are a key requirement fleece backed *EshaPlan FB* should be used as it helps to hide irregularities in the surface such as insulation board joints and tolerances.

Available in rolls up to 2.12m wide and 20m long, and a range of thicknesses from 1.2mm to 2.0mm, *EshaPlan* adhered membranes are attached to the substrate using *EshaBond CA* or *EshaBond PU* adhesive depending on application. As they are installed subsequent rolls are overlapped and hot air welded in the same way as *EshaBond MF*.

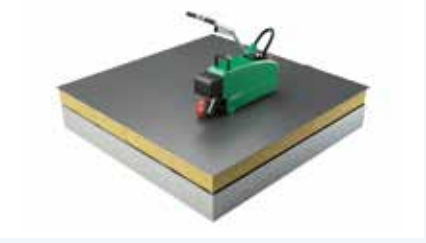
EshaPlan can also be used to mimic the appearance of a traditional Lead roof by adding decor porofile, an extruded profile that is simply hot air welded to the finished membrane to imitate the appearance of a traditional Lead standing seam.



EshaPlan MF



EshaPlan B/FB



EshaPlan B/FB Hot air welded

EshaUniversal Single Layer Membranes

EshaUniversal is a low mass, lightweight, strong, flexible, and extremely stable single layer roof covering manufactured from polyolefin copolymerisate bitumen (POCB).

This special compound creates a 3.2mm thick heat weldable membrane, reinforced with polyester and glassfibre, suitable for new build or refurbishment applications on flat or pitched roofs.

Right: *EshaUniversal* was used for the 850m^2 roof area, for the **Knauf Cube Learning Centre.** The membrane was installed over both metal and concrete decking along with an *EshaBase* vapour control layer and *ProTherm* thermal insulation.
The mid-level roof incorporates a 250m. *MedO Extensive Sedum* green roof.

Below: The Walkie-Talkie
20 Fenchurch Street, London
EshaUniversal was used in the roof garden as part of a comprehensive range of products using *PermaQuik* and *ParaFlex* for the waterproofing element.

EshaUniversal Single Layer Membranes

Newbuild and refurbishment
UV resistant, without the need for surface protection, *EshaUniversal* can be applied rapidly to insulation, timber, concrete decks, or used as an overlay to existing bituminous roofing systems.

Fully Bonded

Standard *EshaUniversal* is fully bonded to a suitable insulation board or suitably prepared existing waterproofing using an *EshaBond* adhesive, either roller or spray applied. Subsequent rolls of *EshaUniversal* overlap by 80mm and are hot air welded

Mechanically Fixed

Standard *EshaUniversal* is mechanically fastened along one edge, through a suitable insulation board or suitably prepared existing waterproofing, using the appropriate *Radmat ProFast* fasteners. Subsequent rolls of *EshaUniversal* overlap the fastening zone by 130mm and are hot air welded together.

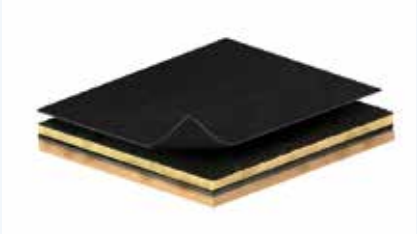
Green Roofs for new or existing roofs

EshaUniversal WS, an FLL certified root resistant membrane specifically for green roof applications can be loose laid, mechanically attached or fully bonded prior to the application of a *Radmat MedO* extensive, biodiverse or intensive green roof system (subject to loadings).

Inverted, Paved and Ballasted systems for new or existing roofs

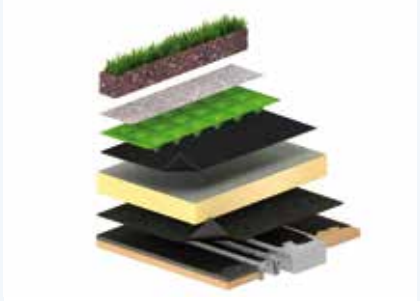
Standard *EshaUniversal* can be loose laid, mechanically attached or fully bonded prior to the application of the desired surface finish. In an Inverted roof *Radmat ProTherm* insulation and *Grey Thermal Sheet* are installed prior to application of the roof finish. In a warm roof the finish is applied directly over the completed roof membrane.

EshaUniversal is BBA Certified, has a life expectancy of up to 30 years and is fully recyclable producing a favourable Life Cycle Assessment, and meeting the strictest standards for sustainable construction; contributing to Green Guide to Specification A+ ratings and reducing the building's environmental impact.



EshaUniversal

EshaUniversal SA



EshaUniversal WS

ParaFlex

Liquid Applied Cold Resin Membrane

ParaFlex doesn't require a cure time between coats; speeding application and creating a continuous monolithic membrane that is fully bonded to the substrate.

ParaFlex is a fast curing, cold applied polyester resin waterproofing system suitable for both new build and refurbishment applications, including zero falls.

Designed for application either directly to a suitable substrate, over an existing waterproofing system or onto a suitable thermal insulation. Paraflex can even be installed to zero falls in accordance with BBA Agrement certificate 09/4653 in an inverted or warm roof application.

BBA APPROVAL INSPECTION TESTING CERTIFICATION
TECHNICAL APPROVALS FOR CONSTRUCTION

Certificate No 09/4653

Manufactured in Germany since 1976 ParaFlex is BBA Certified for 'at least 35 years' in exposed applications and 'for the design life of the roof' for inverted roof applications.

Mixed on site and applied in a 'wet on wet' application to encapsulate either a non-woven polyester or glass fibre carrier layer, ParaFlex doesn't require a cure time between coats; speeding application and creating a continuous monolithic membrane that is fully bonded to the substrate. Available in either black or light grey as standard (with other colours on request) the ParaFlex mix is adjusted to suit the weather; enabling ParaFlex to be installed in temperatures as low as -5ºC.

Above: Dark grey roof refurbishment

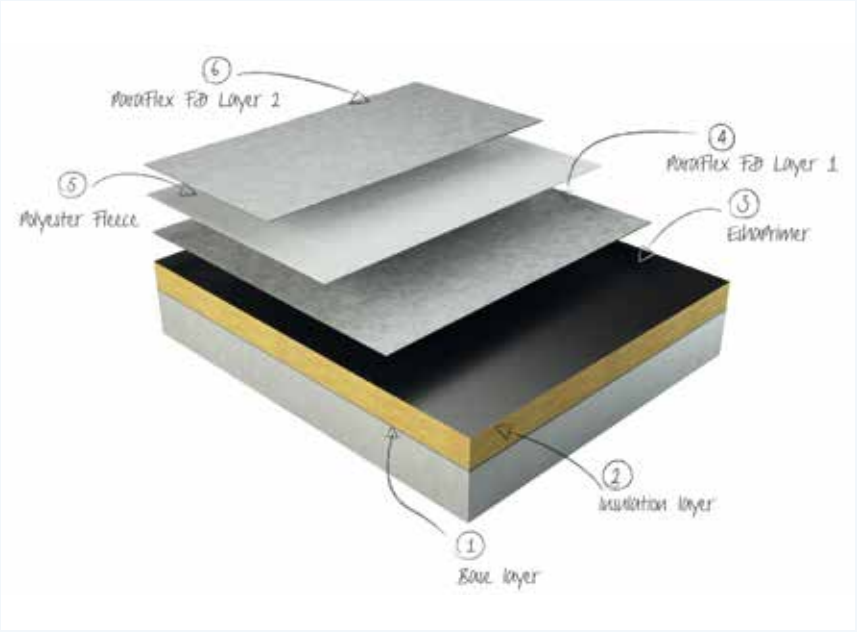
Right and left: Light grey roof refurbishment

Below: New light grey balconies

Once completed the FLL Certified ParaFlex system can be left exposed or, in inverted applications, finished with a Radmat MedO living green roofs, pavers or ballast. Where used as a self-finish in exposed applications, a hard wearing walkable surface for walkways or balconies can also be created by scattering the final coat with coloured microchips for a pleasing aesthetic, or with kiln dried sand for delineation, or to provide a textured surface.

ParaFlex can also be used to provide long lasting waterproofing to water features, fountains or any other structure that is designed to hold and retain water.

- **Suitable for balconies and walkways**
- **Suitable for warm and inverted roofs**
- **Suitable for vertical applications and complex shapes and details**
- **Light foot traffic possible after 30 minutes, completely trafficable within 90 minutes.**
- **No curing time required between coats**
- **Suitable for green roof and roof garden applications**
- **Root resistant**
- **Will accommodate minor movement without damage**
- **Suitable for light foot traffic and light concentrated loads**



ParaFlex System – Liquid applied cold resin membrane

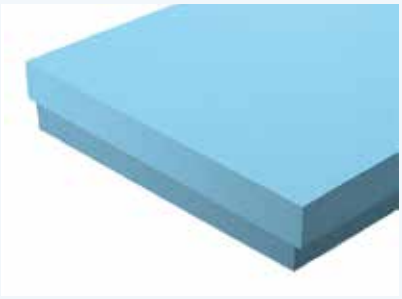
ParaFlex is designed for application either directly to a suitable substrate, over an existing waterproofing system or onto a suitable thermal insulation. *ParaFlex* can even be installed to zero falls in accordance with BBA Agrement certificate 09/4653 in an inverted or warm roof application.

A range of thermal insulants guaranteed as part of the Radmat Roofing system, eliminating conflict between different suppliers' guarantees.

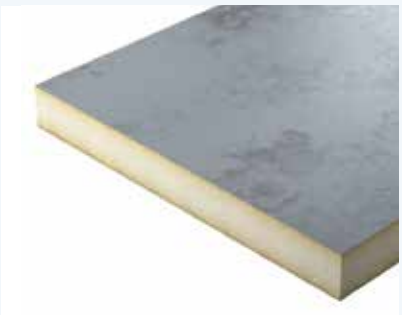
ProTherm thermal insualtion boards provide a range of solutions for both warm and inverted roof applications in both new build and refurbishment projects.

Whether meeting or exceeding the thermal requirements of the Building Regulations, or tackling the conflicting requirements of Part L, Part M and NHBC Chapter 7.1 in inverted roof applications, Radmat's technical expertise can help tailor a project specific solution.

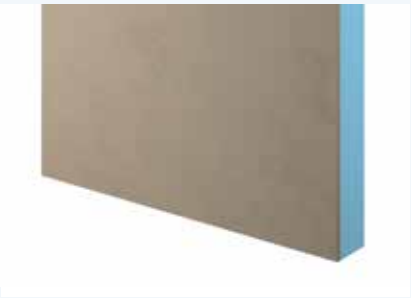
ProTherm Inverted Roof Board
ETAG 031 compliant Extruded Polystyrene (XPS) insulation manufactured and tested in accordance with BS EN 13164:2012, and ISO 14001 certified. Thermal conductivity 0.032 W/m²k.



ProTherm PIR
A range of BS EN 13162:2012 compliant, ISO 14001 certified polyurethane foam insulation boards. Available as uniform thickness or tapered boards with foil, bitumen coated or mineral coated glass fibre facings. Thermal conductivity from 0.026 W/m²k to 0.024 W/m²k.



ProTherm SD
An insulation board used to thermally insulate and protect upstand walls. Manufactured from a CO_2 blown extruded polystyrene foam factory laminated to a 6mm thick weather resistant high impact facing board. Available in a range of thicknesses, see declared performance table for available thickness.



ProTherm MW
A multi-purpose mineral wool insulation compliant with BS EN 13165:2012, ISO 14001 certified and LPS1181:Part 1 EXT – A rating. Available as uniform thickness or tapered boards. Thermal conductivity of 0.039 W/m²k.

ProTherm CelGlas
Cellular glass insulation compliant with BS EN 13167:2012, and ISO 14001 certified. Available as uniform thickness or tapered boards. Thermal conductivity from 0.045 W/m²k to 0.041 W/m²k.

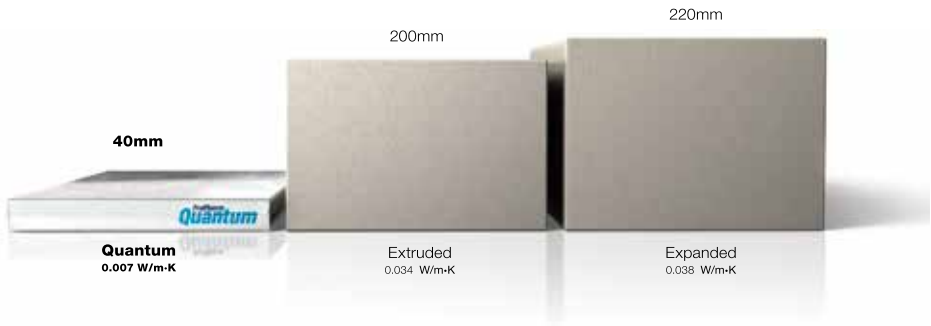
ProTherm Quantum™ powered by Kingspan OPTIM-R®

VIP Inverted Roof Insulation System

With the limitation of traditional products it can be difficult for a designer to insulate above a habitable space against the backdrop of increasing thermal requirements.

This, together with the desire to maximise the glass facade and cater for a level threshold has created a near impossible task.

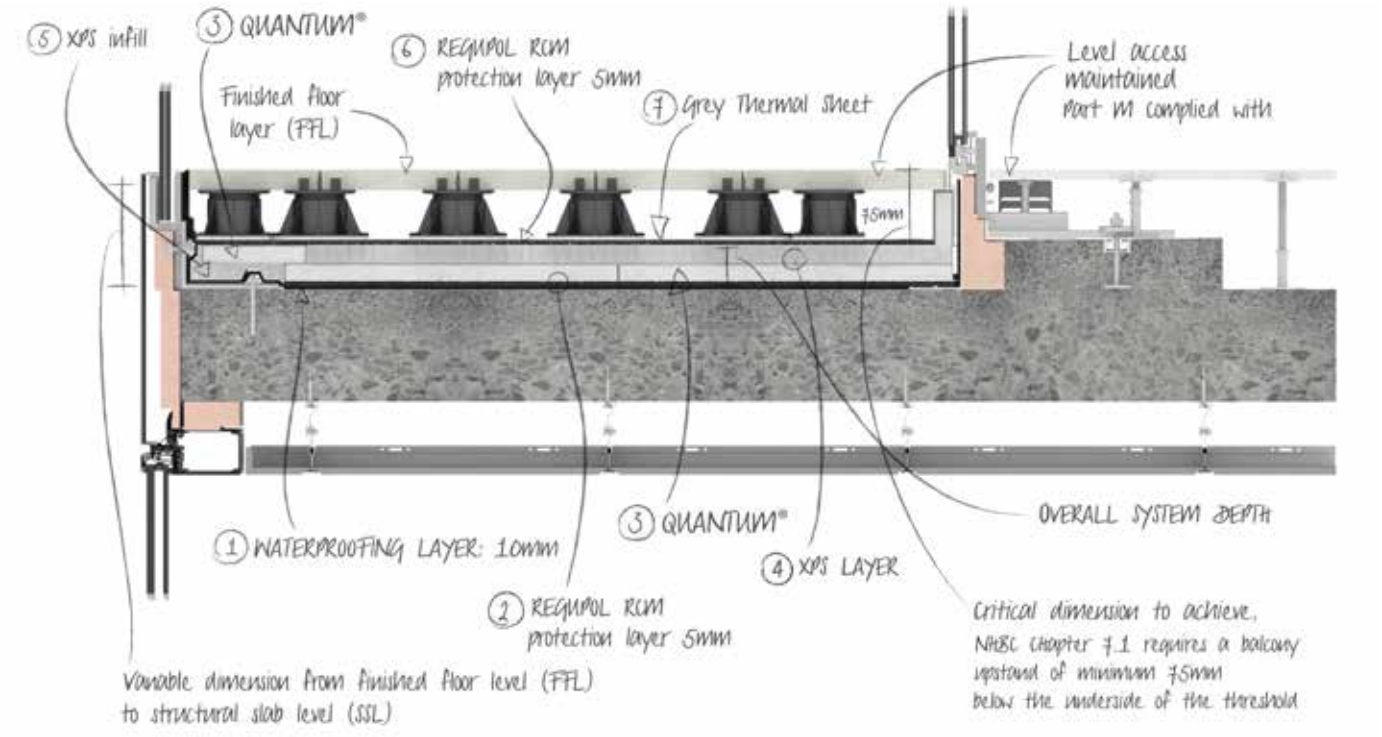
The **ProTherm Quantum** system provides a unique method of meeting the requirements of Building Regulations Part L, Part M and NHBC Chapter 7.1 whilst achieving a level threshold.



When constructing balconies or terraces in new build situations, or refurbishing them in existing buildings, there is a requirement for both low U-values and the thinnest possible construction. Very often the insulation must be installed both on top of and on the underside of the balcony or terrace. Not only can this be time-consuming but it can also pose a condensation risk. The same is also true when refurbishing existing balconies and terraces and trying to improve thermal performance.

Radmat ProTherm Quantum Inverted Roof Insulation System has been developed to help solve these problems. Consisting of Quantum VIP panels (Vacuum Insulation Panels), Regupol RCM, Flex infill, XPS Layer and Black Filter sheet, a ProTherm Quantum VIP Inverted Roof System achieves a 'U' value of 0.15 W/mk^2 using 80% less thickness than a traditional XPS insulation.

Manufactured in a state of the art production facility in the UK Quantum VIP panels consist of a microporous core which is evacuated of air and moisture prior to being encased and sealed in thin, gas-tight special hybrid aluminium. This combination provides outstanding aged design value thermal conductivity of 0.007 W/m.K, thereby achieving the thinnest possible insulation solution available today.



MedO

Living Green Roof System

The benefits of a **living green roof system** are widely published; including their contributions to rainfall management, habitat creation aiding biodiversity, CO_2 capture, absorption of solar radiation, amenity provision, improved aesthetics, summer cooling, whole life cost savings, pollution control, oxygenation and noise reduction.

Working with expert horticulturalists, Radmat Building Products have developed the MedO range of living green roofing systems. All systems are suitable for both new and refurbishment projects and are constructed using the appropriate drainage board, filter fleece and growing medium for the planting required.

MedO Extensive
This was used on much of the living green roofs at the Olympic Village Apartments, Stratford, to provide a low mainentance and self-sustaining plant community.

MedO Living Green Roof Systems

MedO Brown Biodiverse Living Roofs

Suitable for new and refurbishment projects, MedO Brown living roofs are constructed as per Planted Biodiverse roofs but simply left to nature to seed rather than being forcibly planted at installation. Plant cover will be entirely based on wind-blown and bird brought seed, taking a significant time to gain plant cover but being entirely natural once established.

MedO Extensive Living Green Roofs

Suitable for flat and pitched roof applications MedO Extensive systems provide a low maintenance, self-sustaining plant community, achieved in one of three ways depending on budget and patience. Pre-grown sedum blankets provide instant cover. Pre-grown sedum plug plants provide greater diversity but only 10% to 20% cover at installation. Seeding is most economic with 40% to 60% cover taking 12 – 18 months.

MedO Intensive Biodiverse Living Roofs

Typically designed to meet specific requirements, often driven by planning constraints or Biodiversity Action Plans (BAP's), usually to imitate the original ground conditions. Additional features such as insect houses, boulders, shrubs, tree branches etc, to create habitat for insect and bird species, may be included in the specification.

TredWay Easy-lay Modular Paving System

TredWay is a lightweight, low profile modular paving system comprising a unique water-permeable modular rubber base and a range of stone cast slip resistant tiles. Suitable for installation over hot melt, asphalt, bitumen felt, single ply and cold applied waterproofing; TredWay is an ideal solution for refurbishment, conversion or new construction applications.

Simple to install, maintenance free and water-permeable to allow integration with existing drainage systems, TredWay is suitable for terraces, balconies, podiums and roof gardens. Its robustness, slip resistance and chemical resistance also make it suitable for garages, car parks and swimming pool surrounds; in fact anywhere an instant high quality paved area is required.

With its low 31mm height, TredWay can also resolve height concerns, a common consideration at door thresholds and low parapets where a traditional option may take up at least twice the space.

UKAS accredited and compliant with Approved Document E of the Building Regulations, the modular TredWay base pad reduces airborne and impact sound through the system. This is especially important where a terrace or roof balcony is above a habitable space.

Production of TredWay modular matting is ISO 14001 certified with waste from production eliminated through re-processing of all off-cuts, eliminating waste material contribution to landfill. TredWay also has Zero Ozone Depletion Potential (ODP) and Zero Global Warming Potential (GWP).

KEY BENEFITS

- **Completely frost resistant**
- **Long lasting and durable**
- **Fast and simple installation - suitable for the DIY market**
- **High impact sound insulation - excellent acoustic qualities**
- **Precise joint and tile positioning**
- **Water-permeable with drainage grooves to allow integration with existing drainage systems**
- **Lightweight and easy to handle**
- **Suitable for refurbishment and new construction**
- **Can be laid over existing substrate saving time and cost**
- **Essentially maintenance-free**
- **Easy to clean**
- **Excellent aesthetic qualities**
- **Wide range of colours and textures**
- **Replacement tiles available**
- **UKAS accredited and compliant with Approved Document E of the Building Regulations**

APPLICATIONS

- **Fast, low-cost refurbishment of balconies, terraces, patios, courtyards, roof gardens and podiums**
- **Ideal for new construction**
- **Low structural height (ideal for refurbishment applications where height restrictions may apply to doorway openings, parapets etc.)**
- **In sales, presentation areas and exhibition stands, TredWay can be loosely laid on existing floor surfaces, easily removed and re-used**
- **Other inlays can also be used including wood, metal and glass**
- **For swimming pool surrounds, non-slip plastic tiles are available on request**

TredWay System

The *TredWay* system incorporates a unique water-permeable, modular rubber base. Raised ribs allow precise and consistent location of the tiles and provide a ready-made black or grey joint finished flush to the surface of the tile.

Install modular rubber base pad directly onto new or existing waterproofing. Cut to fit.

TredWay uses a precut tile that is adhered between the ribs of the modular rubber base. There is a standard selection of stoneware tiles available; however, providing the tiles are of the right thickness and cut precisely, almost any tile material is suitable for the system – including timber.

TredWay is fast and easy to install so once the tiles are laid the area is ready to use.

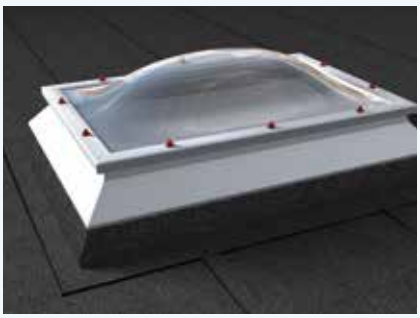
The structural height for *TredWay* is just 31mm so is ideal where there are restrictions such as doorways and balconies. It comes in 5 different stoneware tiles as standard. Non-standard tiles such as non-slip plastic, glass and even wood are available on request.

See also *TredLite* mixtures for an alternative to tiles.

For more information about all our roofing products contact:
Radmat Building Products
Tel: **01858 410372**
techenquiries@radmat.com
www.radmat.com

To complement its waterproofing systems Radmat Building Products supplies a comprehensive range of compatible ancillary components and services, all covered by Radmat's unique system guarantee.

ProFast
Mechanical fastening solutions for Radmat thermal insulation and waterproofing systems, comprising self-coated steel and stainless steel fasteners, thermally broken tube washers, termination bars and specialty fasteners.



ProLight
The *ProLight* range of rooflight components provides a range of flat roof windows, skylights, modular or specialist rooflights tubular rooflights that are suitable for new and refurbishment projects, and can be fitted with a variety of ventilation, access and security options.

The range includes:

ProDome thermoformed polycarbonate single, double, triple and quadruple skinned lights in domed, pyramid and trapezoidal shapes.

ProCurb a range of thermally broken PVC-u upstand curbs to suit new build and refurbishment applications.

ProGlaze 32mm hermetically sealed Low E, argon filled flat double and triple glazed lights.

ProTube tubular rooflights to transfer light to targeted locations.

ProSafe
Roof safety equipment for maintenance and access, including fall prevention, fall arrest and fall restraint systems.

ProFlow
Gravity and Siphonic Rainwater outlets for roof, parapet wall and balcony applications. Available in a range of sizes and types to suit all Radmat waterproofing systems, and incorporating the range of leafguards.

ProScan
Thermographic and moisture mapping surveys to establish the condition of existing roofs.

Francis Crick Institute, London
Architects: HOK with PLP Architecture

Radmat
building products

Radmat Building Products Ltd
Esha House, St Mary's Business Park
Albany Road, Market Harborough LE16 7EB
T : 01858 410 372
E : techenquiries@radmat.com
W : www.radmat.com

This information given in good faith being based on the latest knowledge available to Radmat Building Products Ltd. Whilst every effort has been made to ensure that the contents of the publication are current while going to press, customers are advised that products, techniques and codes of practice are under constant review and liable to change without notice.

For further information on Radmat products and services please contact us. **www.radmat.com**

Image: City Hall, Southbank, London
Architects: Foster + Partners