

Sureplan FPO for Contractors

World Reference
in Waterproofing



Sureplan FPO

Single Ply Waterproofing Systems



Fast Application
Recyclable
UV Stable
Easy to use & clean
Flexible methods of installation

A range of **high performance waterproofing systems** designed to meet today's standards

The Icopal Group continues to invest in the development and manufacture of synthetic single ply technology with the introduction of Sureplan FPO waterproofing membranes. Manufactured from flexible polyolefins, Sureplan FPO combines excellent physical product characteristics with superior quality and handling capabilities.

All roofing materials are subjected to environmental conditions that can alter the physical and chemical properties of the material. These conditions include ozone, heat, solar radiation, thermal cycling, freeze/thaw, pollution, biological growth and ponding rainwater.

Roof membrane properties must be maintained during exposure to the roof environment or the roof will not perform as expected. The inherent performance benefits of Sureplan FPO ensure the specifier and building owner of a versatile, durable and stable roofing option.

Durability

Sureplan FPO provides exceptional weather resistance and protection against all temperature extremes. Sureplan FPO is UV resistant and remains virtually unchanged throughout its serviceable life. Accelerated age testing completed on the Sureplan membranes provide an anticipated life expectancy in excess of 20 years.

Compatibility

Sureplan FPO roof membranes can be installed on all major roof deck types such as plywood, timber boards, profiled metal, concrete and cementitious screeds and is not affected by direct contact with commonly used roofing materials such as bitumen, asphalt, polystyrene or rubber. This makes Sureplan FPO the ideal membrane for refurbishing existing roofs.

Security in Application

Adjoining sheets of Sureplan FPO are fused together by hot air welding. Sureplan FPO exhibits a wide "welding window" allowing perfect welds to be produced over a broad temperature range making the membrane very user friendly.



Aesthetics

Sureplan FPO membranes are available in light grey and anthracite colour finishes as standard.

RAL (7001) – Light Grey

RAL (7015) – Anthracite

Sureplan FPO is also available to order in a white colour.

Environmentally Considerate

BREEAM – Sureplan FPO membranes can achieve an A+ rating (subject to specification).

Solar Reflectance (SRI) – FPO Light Grey = 78
FPO White = 100

Recyclable – Excess materials generated during the manufacturing process can be ground into small pellets and recycled where it is specifically used to form part of the membrane underside. Further to this, it is understood that Sureplan FPO membranes can also be recycled at the end of their useful life, eliminating the environmental impacts associated with landfill.

Sureplan FPO Product Range

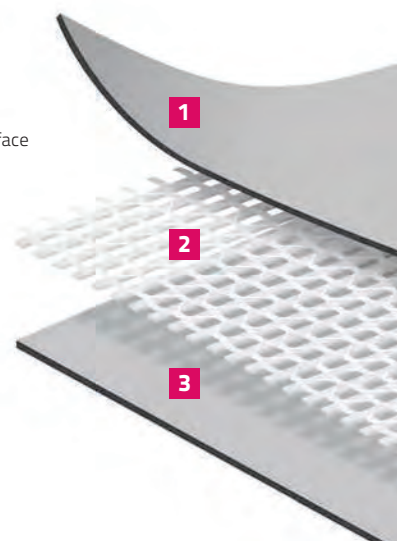
Sureplan FPO is a 1.5mm thick thermoplastic, reinforced waterproofing membrane for flat, curved and pitched roofs. A fleeceback version is also available for use in adhered applications.

Sureplan FPO membranes have been tested for fire performance in accordance with BS 476-3 and achieve an EXT:F.AC rating.

Where enhanced fire performance is required, Sureplan FPO Plus membranes are available achieving an EXT:F.AB rating.

Complimentary Accessories

Sureplan FPO accessories have been individually designed to ensure total compatibility and ease of application and play a vital role in achieving the total integrity of the Sureplan waterproofing system. Accessories include Sureplan Coated Metal sheet for the prefabrication of edge trims and details, a range of Sureplan Outlets, Sureplan Walkway Membrane, and an extruded FPO profile for the simulation of traditional metal and standing seam roofs finishes.

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- The diagram shows a cross-section of the Sureplan FPO membrane structure. It consists of three distinct layers: a top surface layer, a middle reinforcing grid, and a bottom polymer layer. Each layer is numbered 1, 2, and 3 respectively.
- 1** UV resistant thermoplastic FPO top surface
 - 2** Tough glass fibre reinforcing grid
 - 3** Thermoplastic FPO Polymer layer

Membrane Summary Table

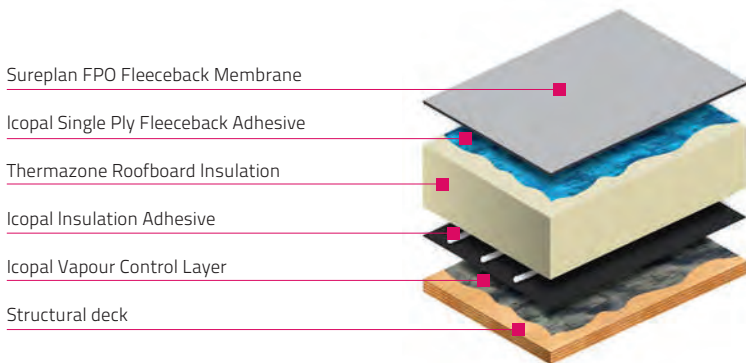
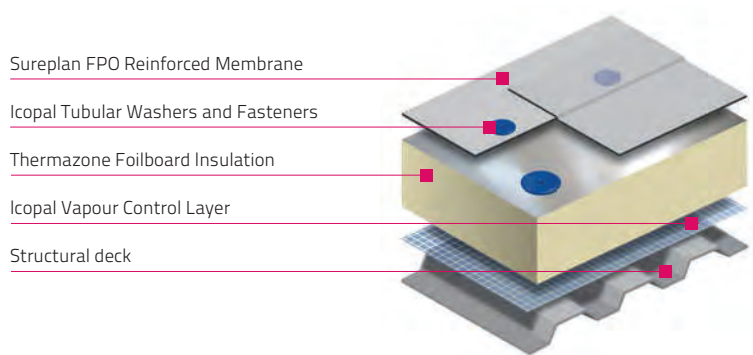
Product	Thickness	Roll Size	Colour	Method of Attachment
Sureplan FPO Reinforced Membrane	1.5mm	1.5 x 15m	Light Grey & Anthracite	Mechanically fixed, inverted and ballasted
Sureplan FPO Plus Reinforced Membrane	1.5mm	1.5 x 15m	Light Grey & Anthracite	
Sureplan FPO Fleeceback Membrane	1.5mm + fleece	2.12 x 15m	Light Grey & Anthracite	Fully adhered, hybrid, inverted and ballasted
Sureplan FPO Plus Fleeceback Membrane	1.5mm + fleece	2.12 x 15m	Light Grey & Anthracite	

Methods of Application

With today's construction trends of highly intricate and complex structures and the requirement for higher thermal insulation values, only membranes which aspire to the highest quality standards and possess unquestionable technical properties, will be considered in the design process. The versatility of Sureplan FPO ensures the designer total freedom and security when specifying the roof waterproofing system.

Mechanically Fastened System

Mechanically fixed systems are often favoured above timber or metal decks where the exposure of the fastener on the underside of the structure is not a consideration. This method of application involves the use of thermally broken fasteners fixed at pre-determined centres and is a fast and cost effective method of installing the single ply membrane which is less dependent upon amicable weather conditions.

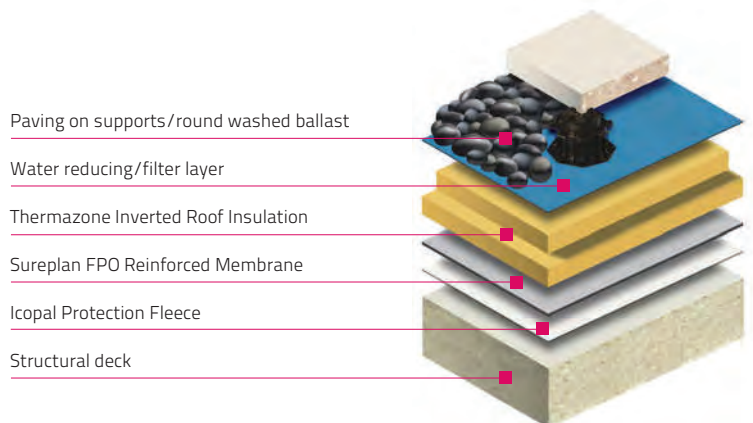


Fully Adhered System

Fully adhered systems are more commonly used above concrete substrates where the process of installing mechanical fixings is invasive and labour intensive. Fully adhered systems are reliant upon suitable weather conditions (which should be considered) however, complex geometries and pitched surfaces can be accommodated with great success. Fully adhered membranes can also provide a superior surface finish.

Inverted Roof System

Inverted roof systems offer an excellent solution for situations where access or recreation are a priority. Ballasted systems also provide maximum resistance against membrane damage, UV degradation, thermal shock, fire or noise. Standard Sureplan FPO membranes can be used in buried systems and do not require substitution for alternative grades.



Warm Ballasted Roof System

The Sureplan FPO membrane is loose-laid and welded together at the overlaps prior to the application of the ballast which holds the membrane in place. This method offers maximum restraint to wind uplift and fast application times, while providing protection from mechanical and solar/UV damage.

Paving on supports/round washed ballast

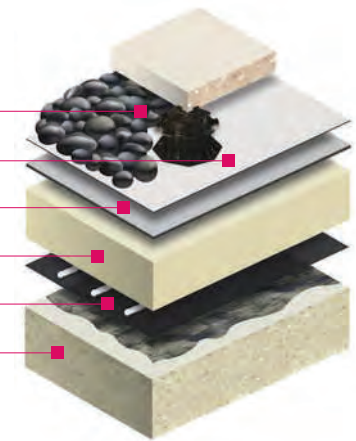
Icopal Protection Fleece

Sureplan FPO Reinforced Membrane

Thermazone Roofboard Insulation

Icopal Vapour Control Layer

Structural deck



Icopal Green Roof System

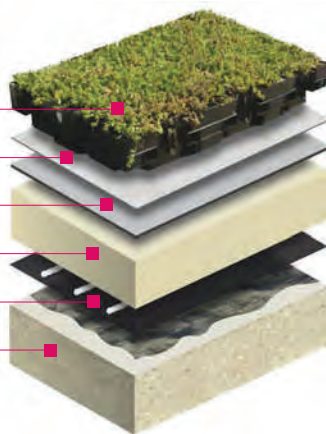
Icopal Protection Fleece

Sureplan FPO Reinforced Membrane

Thermazone Roofboard Insulation

Icopal Vapour Control Layer

Structural deck



Green Roof System

The use of an Icopal Green Roof system adds another dimension to a Sureplan FPO roof system. All Sureplan FPO system application types can accept a green roof as a surfacing option. In ballasted or inverted buildups the green roof will act as the ballast to secure the system.

Guarantees

As a world leader in the manufacture of waterproofing membranes, we pride ourselves on offering the most comprehensive guarantees available in the flat roof industry, giving further reassurance of our commitment in providing total confidence in our range of high performance waterproofing membranes.

Icopal guarantees incorporate a range of features and benefits tailored to suit the client's specific requirements, including materials, insurance backing, design, consequential damage and approved installation. All guarantees offer upto 20 years as standard, subject to specification.

Several different levels of guarantee coverage are available as per the following list.

- Insured System Plus Guarantee
- Insured Product Plus & Workmanship Guarantee
- Insured Product Plus Guarantee
- Insured Product Guarantee

For further information on different guarantee options, please refer to the Icopal Insured Guarantees Brochure or contact Icopal Technical Services.

Third Party Accreditation

Sureplan FPO membranes have been tested approved by the BBA and have been awarded the certificate number 12/4962.



Full **System** Solutions

Icopal offers a single source solution for complete roof waterproofing. This means simplifying the specification process whilst ensuring that all aspects of an installation attain the same excellent quality through stringent project monitoring and a guaranteed support mechanism.

Vapour Control Layer

Icopal supplies a range of high performance polyethylene and bituminous vapour control layers for use with its single ply roofing systems.

Icopal heat-activated self-adhesive vapour control layers, are manufactured from SBS-modified bitumen and reinforced with an extra strong glass fibre fleece with a PET aluminium foil.

Micoral SK has a blue SYNTAN® resin upper surface allowing the appropriate insulation board to be adhered using Icopal Insulation Adhesive.

Micoral NB is finished with a polyethylene film, and is suitable for use in mechanically fastened applications only.

These membranes are suitable for direct use on metal, timber and concrete deck types.

Also available are **Total Torch VCL**, and **Micotherm SK**. Please see individual product literature for further information.



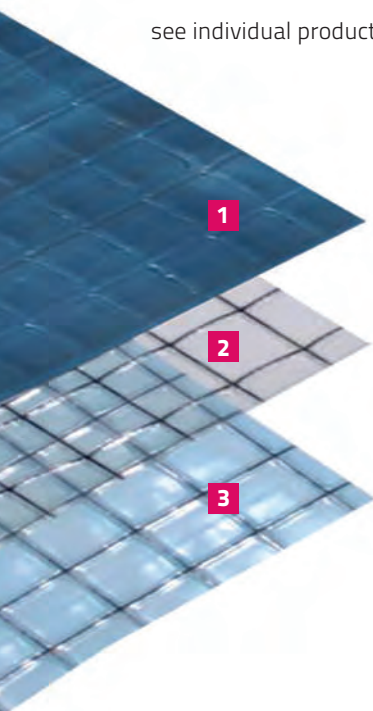
Since these membranes are adhered, they can provide a weatherproof temporary finish to the roof structure prior to the application of the insulation and final waterproofing system.

For mechanically fastened situations, the Monarflex range of reinforced polyethylene vcls, which includes **Reflex 275**, **Monofilament 250**, and **Netofol**, provide a quick and cost effective method of vapour control.

These membranes are loose-laid with laps sealed with Monobond LT tape, and are secured to the roof deck through the mechanical fastening of the insulation board.

Monarflex multi-layer VCL's are manufactured from virgin polyethylene with built-in reinforcement grids of HDPE making them highly resistant to tears and damage. Some also have a layer of aluminium foil for higher water vapour resistance performance.

For further guidance and product information contact Icopal Technical Services on 0161 865 4444 or visit www.icopal.co.uk

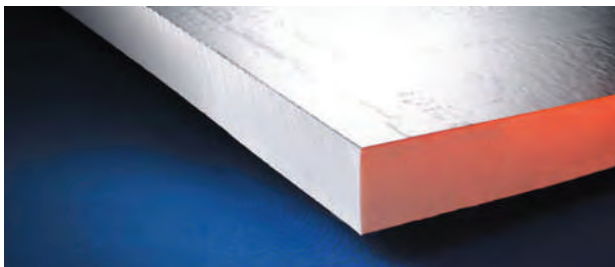


- 1** Reflex 275
- 2** Monofilament 250
- 3** Netofol

Thermal Insulation

The Thermazone range of insulation boards has been specifically designed to complement Icopal's single ply roofing systems. These boards are available as a uniformed flat board, or can be supplied in a tapered board to offer a cost effective solution to providing positive falls, even on the most complicated of projects.

Thermazone rigid PIR thermal insulation boards are CFC/HCFC free, have a zero Ozone Depletion Potential (ODP), and have a Global Warming Potential (GWP) of less than 5. They have excellent thermal performance, dimensional stability and are resistant to mould and microbial growth.



Thermazone Foilboard is a rigid PIR insulation board and is faced on both sides with a low emissivity composite foil autohesively bonded to the insulation core during manufacture. Thermazone Foilboard is suitable when the board and waterproofing are being mechanically fastened to the structural deck using screws and washer plates.

Thermazone Roofboard is a rigid PIR insulation board and is faced on both sides with a mineralised glass tissue autohesively bonded to the insulation core during manufacture. Thermazone Roofboard is suitable for use when the board is being adhered to a suitably bonded vapour control layer. It is also suitable when the waterproofing is being adhered to the insulation board. This insulation board may also be used in a mechanically fastened situation.

Thermazone Hydrosshield IVR insulation board is for use in inverted roof situations. It is an expanded polystyrene (EPS) board made from a low water absorption polystyrene bead. Thermazone Hydrosshield is to be used in conjunction with the Monarperm water reducing layer. Water seeping between the insulation board causes a cooling affect which must be accounted for within thermal calculations. The use of the Monarperm water reducing layer minimises water

seepage, allowing better U-value performance for a given thickness of insulant.

Mechanical Fasteners

Icopal supply a range of specialist fasteners for securing thermal insulation and Sureplan FPO membranes to a variety of structural roof decks including steel, concrete and timber.



Icopal Tubular Washers eliminate all thermal transmittance associated with metal fasteners, thereby allowing reduced thicknesses of insulation. They are designed with a low-profile washer and narrow tube diameter which aids installation and improves aesthetics.

Icopal Screw Fasteners are manufactured from high grade carbon steel which are case hardened to achieve the properties essential for long term performance and have an organic corrosion resistant finish to meet UEAtc Part 2 requirements.

Thermal insulation boards should be independently mechanically fastened to the structural deck. The number of fixings and the application pattern is dependent upon the size and type of insulation board.

Wind Loadings

Wind loadings should be assessed in accordance with BS 6399-2: 1997 (Loadings for buildings. Code of practice for wind loads) or BS EN 1991-1-4 taking into account the height, width and length of a building, its orientation and its geographical location. Please see page 14 for further information.

Accessories

Sureplan FPO accessories have been individually designed to ensure total compatibility and ease of application and play a vital role in achieving the total integrity of the Sureplan FPO waterproofing system. Amongst others, accessories include Sureplan Coated Metal sheet for the prefabrication of edge trims and details, a range of Sureplan Outlets, Sureplan Walkway Membrane, and an extruded FPO profile for the simulation of traditional metal and standing seam roofs finishes.

Sureplan FPO Product Range

The Sureplan range has been designed to ensure total compatibility and ease of application playing a vital role in achieving the total integrity of the waterproofing system. All membranes and accessories are available in light grey and anthracite as standard. Separate technical data sheets on all products are available upon request.

Sureplan FPO Plus membranes have been specifically formulated for enhanced fire performance.

Sureplan FPO Waterproofing Membranes

Product	Thickness	Roll Size	Colour
Sureplan FPO Reinforced Membrane	1.5mm	1.5 x 15m	Light Grey & Anthracite
Sureplan FPO Plus Reinforced Membrane	1.5mm	1.5 x 15m	Light Grey & Anthracite
Sureplan FPO Fleeceback Membrane	1.5mm + fleece	2.12 x 15m	Light Grey & Anthracite
Sureplan FPO Plus Fleeceback Membrane	1.5mm + fleece	2.12 x 15m	Light Grey & Anthracite

Sureplan FPO Accessories

Product	Thickness	Size	Colour
Membrane Accessories			
Sureplan FPO Reinforced Strip	1.5mm	0.15 x 15m	Light Grey & Anthracite
Sureplan FPO Unreinforced Flashing	1.5mm	0.7 x 15m	Light Grey & Anthracite
Sureplan FPO Walkway Membrane	2.0mm	0.75 x 15m	Red
Outlets			
Sureplan FPO Outlets	-	50/62/80/ 95/145mm Ø	Light Grey & Anthracite
Roofgard Universal Leaf Grate	-	-	-
Sureplan FPO Parapet Outlet	-	100mm Ø	Light Grey & Anthracite
Sureplan Parapet Leaf Grate	-	-	-
Pipe Boots/Vents/Tube Ducts			
Sureplan FPO Cable & Tube Duct	-	75mm Ø	Light Grey & Anthracite
Sureplan FPO Cowled Telescopic Vent	-	130/90mm Ø	Light Grey & Anthracite
Sureplan FPO Pipe Boots	-	75 – 125mm Ø	Light Grey & Anthracite
Pre-fabricated Corners			
Sureplan FPO Internal Corners	-	-	Light Grey & Anthracite
Sureplan FPO External Corners	-	-	Light Grey & Anthracite
Coated Metal/Standing Seam/Lightning Conductor Clips			
Sureplan FPO Coated Metal	1.2mm	1 x 2m	Light Grey & Anthracite
Sureplan FPO Standing Seam	25mm	3mm	Light Grey & Anthracite
Sureplan FPO Lightning Conductor Clips	-	3mm & 5mm	Light Grey
Adhesives/Sealants/Cleaner			
Icopal FPO Contact Adhesive	-	20kg	Clear
Icopal Single Ply Fleeceback Adhesive	-	20kg	Blue
Sureplan FPO Membrane Cleaner	-	5kg	Clear
Sureplan FPO Edge Sealant	-	-	-
Sureplan FPO Mastic	-	290ml	-



Icopal supply a range of specialist fasteners for securing thermal insulation and Sureplan FPO membranes to a variety of structural roof decks including steel, concrete and timber.

Icopal Tube Washers/Pressure Plates/Fixing Bars/Fasteners

Product	Size
Tube Washers	
Icopal Membrane Tube Washer (45mm Ø)	40/60/80/90/100/120/150/ 180/210mm
Icopal Insulation Tube Washer (75mm Ø)	40/60/80/90/100/120/150/ 180/210mm
Pressure Plates	
Icopal Flat Steel Pressure Plates (timber substrate)	82 x 40mm
Icopal Deep Dish Pressure Plates (mineral wool substrate)	82 x 40mm
Fixing Bars	
Icopal Galvanised Fixing Bar (Peel Stops)	3m x 25mm
Icopal Termination Bar	3m x 25mm
Fasteners	
Icopal 5.8mm Carbon Steel Fasteners (into timber & metal decks)	40/55/65/75/85/95/105/115/ 125/150/175/200mm
Icopal HD 6.1mm Carbon Steel Fasteners (into concrete)	32/50/75/85/100/125/150/ 175/200mm
Icopal 4.8mm Stainless Steel Fasteners	60/80/100/120/140mm

For further information please consult individual product technical datasheets.

Insulation

Product	Thickness	Size	Application
PIR Insulation			
Thermazone Foilboard (PIR)	30/35/40/50/60/70/80/ 90/100/110/120mm	1200 x 2400mm	Mechanically Fixed
Thermazone Roofboard (PIR)	25/30/40/50/60/70/80/ 90/100/110/120mm	1200 x 2400mm	Mechanically Fixed & Fully Adhered
EPS Insulation			
Thermazone Hydroshield IVR*	120/150/160/170/180/ 205/220/240/260/320mm	1200 x 590mm	Inverted Roofs

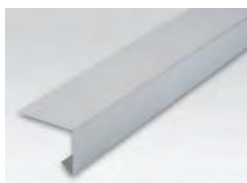
*Thermazone Hydroshield IVR to be used in conjunction with Monarperm water reducing layer.

Vapour Control Layer

Product	Thickness	Size	Application
Reinforced Polyethylene			
Netofol	0.2mm	2 x 50m	Loose-laid & Mechanically Fixed
Monofilament 250	0.25mm	2 x 50m	Loose-laid & Mechanically Fixed
Reflex 275	0.3mm	2 x 25m	Loose-laid & Mechanically Fixed
Reinforced Bitumen Membranes			
Micoral SK	1.5mm	1 x 15m	Heat-activated/Self Adhesive
Micoral NB	0.25mm	1.08 x 50m	Heat-activated/Self Adhesive
Total Torch	3.5mm	1 x 7.5m	Torch-applied
Vapourbar	1.8mm	1 x 20m	Bonding Bitumen (Pour & Roll)

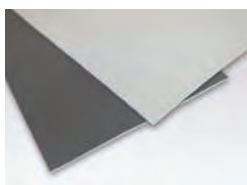
System **Ancillaries**

Sureplan ancillaries have been individually designed to ensure total compatibility and ease of application and play a vital role in achieving the total integrity of the overall Sureplan waterproofing system. All membranes and accessories are available in light grey and anthracite as standard. Separate technical data sheets on all products are available upon request.



Sureplan FPO Coated Metal

Sureplan FPO Coated Metal is a 0.6mm hot dipped galvanised steel sheet coated with a layer of 0.6mm non-reinforced FPO film for an overall thickness of 1.2mm. The sheet is cut into appropriate widths and used to fabricate metal drip edges or other roof perimeter edging profiles. The coated metal can also be used to provide mechanical restraint at any changes in level, abutments or roof area perimeters.



Sureplan FPO Reinforced Strip

Sureplan FPO Reinforced Strip is used to achieve a watertight detail where end laps of the Sureplan FPO Fleeceback membrane are butt jointed. It is also used in conjunction with coated metal drips and upstands.



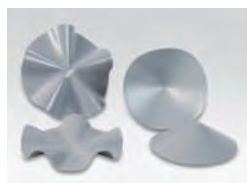
Sureplan FPO Unreinforced Flashing

The Sureplan FPO Unreinforced Flashing is intended to be used in the formation of internal/external corners, field fabricated pipe flashings, sealant pockets and scuppers, when the use of pre-moulded accessories are not feasible.



Sureplan FPO Walkway Membrane

Sureplan FPO Walkway Membrane is a weather resistant FPO membrane which is red in colour and incorporates an aggressive, non-slip, interlocking herringbone tread pattern.



Sureplan FPO Prefabricated Corners

Prefabricated corners aid speed of installation on site, and are used to reinforce internal and external corners with no stretching or cutting required.



Sureplan FPO Pipe Flashing

Sureplan FPO Pipe Flashing are moulded preformed FPO pipe flashings designed to suit a range of pipe diameters, achieving a watertight seal.

Sureplan FPO Standing Seam Profiles

Sureplan FPO Standing Seam Profiles are used to replicate the appearance of lead standing seam or metal profiles.



Sureplan FPO Outlets

Sureplan FPO Outlets are manufactured from acid resistant stainless steel incorporating a Sureplan FPO flange for easy welding to the roof membrane. Connection is made with the plumbing using specially designed sponge rubber 'O' rings. Supplied in both standard and parapet form, the Sureplan Outlet range is completed with leaf guards and connection attachments, where required.



Sureplan FPO Cowled Telescopic Vent

Manufactured from high quality steel, Sureplan FPO Cowled Telescopic Vents are designed to maintain waterproofing integrity around soil vent pipe penetrations. The telescopic double pipe slides on to the upstand pipe and into the soil vent pipe. An internal seal is achieved between the smaller diameter of the two pipes and the soil vent pipe via a rubber "O" ring.



Sureplan FPO Cable & Tube Ducts

Sureplan FPO Cable & Tube Ducts consist of a high quality stainless steel pipe providing a rigid upstand, capped with two PVC pipe elbows. The integral FPO membrane flange can be welded to the underlying membrane to maintain the waterproofing detail.



Sureplan FPO Lightning Conductor Pads

Sureplan FPO Lightning Conductor Pads comprise a lightning conductor cable clip mechanically attached to a circular FPO membrane disc which is welded to the main Sureplan FPO roof membrane. The clips are available to suit either a bare copper, or a PVC-coated conductor strip. Standard membrane colour available is light grey.



Sureplan FPO Mastic

Sureplan FPO Mastic is a single component mastic designed to be used in conjunction with termination details at upstands and pipe penetrations to complete the waterproofing element.





Icopal Single Ply Fleeceback Adhesive

Icopal Single Ply Fleeceback Adhesive is a high strength, single component moisture curing polyurethane adhesive that has been formulated for bonding fleece-backed Single Ply roofing membranes to various substrates including suitable roof insulation panels, such as Thermazone Roofboard. The cured adhesive film has very good resistance to heat and hydrolysis, and is blue/green in appearance.



Icopal FPO Contact Adhesive

Icopal FPO Contact Adhesive is a high strength solvent based contact adhesive that allows the bonding of Sureplan FPO Reinforced Membrane to various porous and non-porous substrates. The adhesive provides instant contact adhesion and is particularly useful at details such as upstands and abutments.



Icopal FPO Membrane Cleaner

Icopal FPO Membrane Cleaner is a solvent based solution specifically formulated to remove surface dirt and debris from FPO membranes.



Icopal Termination Bar

Icopal Termination Bar is designed for securing and sealing membrane terminations at upstands in accordance with current Icopal specifications. The 3m long bar incorporates pre-drilled holes at 150mm centres.



Icopal Screw Fasteners, Tubular Washers & Pressure Plates

Icopal Screw Fasteners are manufactured from high grade carbon steel which are case hardened to achieve the properties essential for long term performance and have an organic corrosion resistant finish to meet UEAtc Part 2 requirements. The fasteners are also available in austenitic stainless steel offering exceptional corrosion resistance for extended warranty projects.

Icopal Tubular Washers are precision moulded from high grade polypropylene and extensively tested to ensure resistance to the extreme temperatures and mechanical stresses encountered within the roofing system. They are blue in colour and are available with two washer diameters: A 45 mm diameter for fixing membranes and a 75 mm diameter for fixing rigid insulation boards.

Icopal Pressure Plates are manufactured from high quality corrosion-resistant stainless steel. Icopal Pressure Plates are for use where tube washers cannot be utilised or where the membrane is being fastened when insulation is not present, eg cold roof situations.

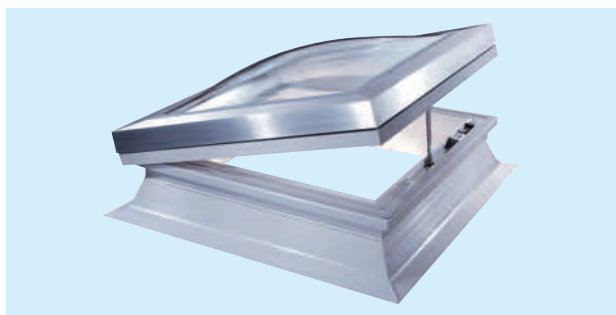
Complimentary Products

Icopal's approach to providing a fully guaranteed and integrated waterproofing solution is to include a range of specifically designed complimentary products eliminating the need for split responsibility or unknown quality.

Dalite Rooflights and Hatches

It is now accepted that natural light in buildings helps create better quality environments for people, improving their concentration and general feeling of well-being, leading to better productivity.

Specifying and installing a Dalite Rooflight helps ensure optimum and uniform natural light in rooms, guaranteeing both health and economic benefits.



Icopal Roof Safety Systems

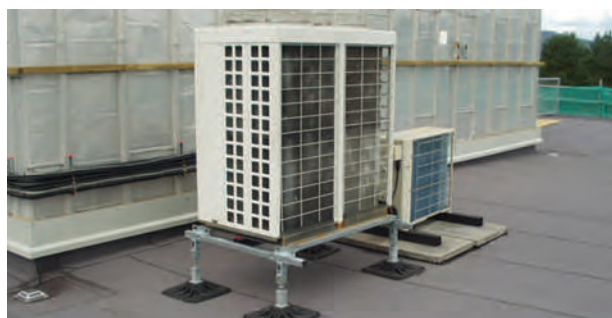
Icopal provides a range of Roof Safety Systems including guard rail and fall restraint systems.

There is a duty of care placed upon employers outlined in the Working at Height Regulations 2005 to provide safe methods of access and protection for personnel accessing roofs. Icopal can advise and design fall protection and roof safety systems with guaranteed waterproofing as part of the overall roof specification.



Icopal Roof Plant and Equipment Support

Provides a cost effective way of supporting rooftop equipment and services without penetrating the waterproofing. The system is lightweight and adaptable avoiding unnecessary costly detailing.



Roofgard Paving Support System

Roofgard Paving Support System provides a versatile and cost effective means of creating a fully supported and stable raised paved area, terrace, walkway or balcony.



Design Assistance

Whether it is new build or refurbishment, Icopal's Technical Support Services will ensure all aspects of the proposed roofing scheme comply with all the latest Building Regulations and codes of practice.



Wind Uplift

Prior to commencement on site, and upon receipt of a project registration form by Icopal's Technical Services, a wind uplift calculation in accordance with current codes of practice is carried out for each mechanically fastened project. The shape of the roof, the height of the building and its geographical location are all considered when completing the calculation and subsequently determining the required fastener density for that particular roof.

For existing substrates a 'Pull-Out' strength test is recommended and can be provided by Icopal.

Site Inspection

Acting on behalf of the client, surveyor, architect or other nominated agent, Icopal Area Technical Managers can provide a comprehensive roof inspection and condition report prior to making any recommendations for remedial action.

All site inspections include a detailed commentary with photographic record and core samples, where appropriate.

Design Assistance

Standard or project specific detail drawing can be provided showing critical interface detailing and system terminations.



Cut to Falls Insulation

Icopal's in-house design service offers the most cost effective and user efficient solutions to providing positive drainage falls on even the most complicated of projects. From initial design to installation, Icopal's Technical Services will ensure the designed insulation scheme provides a combined solution of insulation value and effective roof drainage.

U-Value and Condensation Risk Analysis

U-Value and condensation risk analysis can be carried out to ascertain the potential threat to the system of interstitial condensation. Should such a threat exist, Icopal's Technical Services team will be able to advise and recommend an appropriate solution.

Specifications

Should it be requested, bespoke system specifications are generated following the completion of the site inspection report. Specifications can be created in NBS J42 or in Icopal's in-house spec-writer format. Each specification will include such things as project specific drawings and make reference to current regulations and standards, ensuring compliance at all times.

Roof Safety

Safe methods of working whilst on a roof is an essential requirement to protect the workers from falls. Icopal's range of Roof Safety and Fall Protection systems can be designed to accommodate the very specific requirements of the roof, without compromising its waterproofing integrity.

Project Monitoring

Once the project is on site, Icopal Quality Inspectors carry out regular site inspections throughout the progress of the project, checking compliance with specification, workmanship and overall aesthetic condition. Each visit is followed up with a written and photographed site report to log comments made during the inspectors visit.

On completion of the project, the Quality Inspector will conduct a thorough inspection of the roof to ensure that all the requirements of the guarantee have been met.

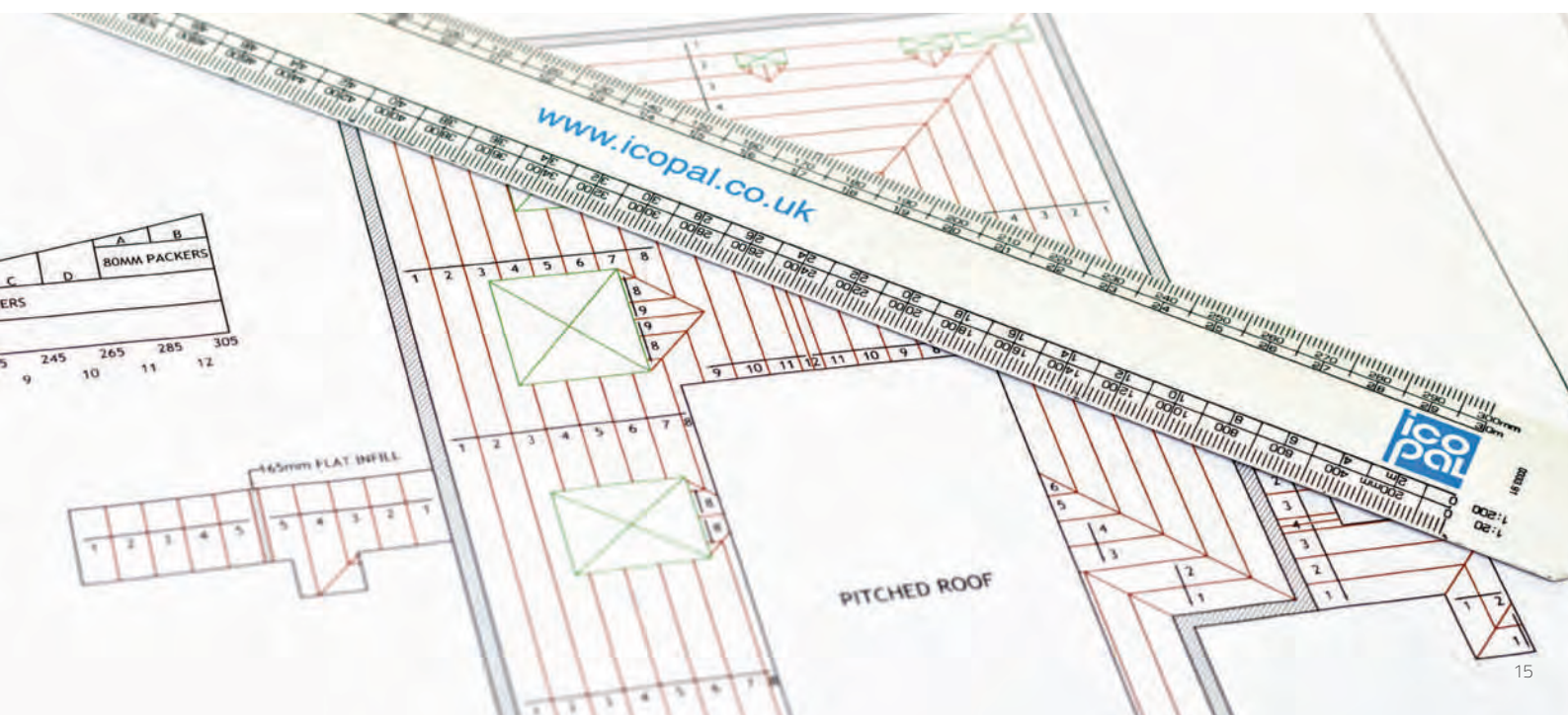
Approved Contractors

All Sureplan FPO installations are carried out by Icopal Sureplan approved contractors, each of whom attend and complete a specific training course carried out at one of Icopal's dedicated training centres.

Trained operatives are required to demonstrate professional levels of competency in all aspects of membrane detailing and application. Upon satisfactory completion of the training, each operative will be certified to a level of competency in the application of the system.

Repair and Maintenance

All roof waterproofing systems require periodical inspection and maintenance. BS 6229: 2003 recommends that all flat roofs be inspected twice yearly; (eg. autumn and spring) so that potentially blocked gutters or outlets can be cleared. In areas of high dust or pollution, inspections should be carried out more frequently. Under the terms and conditions of the Icopal guarantee, a more thorough inspection should be carried out every five years by the original approved installer.





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