



DANOPOL®
SINGLE PLY MEMBRANES

BUILDING TOGETHER IN PARTNERSHIP

Since 1964, DANOSA has protected buildings around the globe. During this time we have come to appreciate that each market has its own requirements, its own standards and nuances that we must respect.

Despite the cultural differences, the key similarity is a demand for high-quality products and, just as importantly, a high-quality service.

Our commitment to high quality production is supported by decades of production experience, our in-house state-of-the-art testing laboratory and our ever-growing factory. As a result, we are proud of our market leading status in European and International markets and continually invest in new products and services to expand our world of solutions.

By building together in partnership, we are with you every step of the way, engineering value without compromising quality.

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DANOSA HEADQUARTERS, FONTANAR, SPAIN



WE PROVIDE ANSWERS AND
SOLUTIONS FROM
**INNOVATION AND
KNOWLEDGE**



SPECIFYING DANOSA

A SERVICE THAT IS PROUD TO BE DIFFERENT

There are a number of companies in the UK market, so choosing the right system for your project may seem a little daunting at first.

Choosing to build together in partnership with DANOSA, you are assured of market-leading support as well as high-quality systems, specifically engineered to suit the requirements of your project.

► PREMIUM INNOVATIVE SYSTEMS

DANOSA have been manufacturing specialist systems since 1964 and combined with our dedicated in-house laboratory and research facility, are recognised for producing some of the highest performing construction systems and solutions for a variety of building applications.

► AWARD-WINNING

As of 2023, DANOSA UK has won 5 SPRA awards across the Most Innovative, Best New Build, and Best Detailing categories for DANOPOL® Single Ply projects. DANOSA was also the winner of an NFRC award in 2021 for the Bituminous Hot Applied Liquid Waterproofing category for a DURADAN® project.

► CONTRACTOR NETWORK

Our warrantable systems are exclusive to our network of registered Premier Contractor partners. Each Premier Contractor receives training in how to specify and price our systems in addition to our dedicated installer training and assessment programmes.

► TECHNICAL SUPPORT AND SPECIFICATION SERVICES

Windload, rainwater (flow rate), thermal, and condensation risk calculations are just some of the services we provide in-house, including NBS format specification service and tapered insulation scheme solutions.

► IN-HOUSE AND ON-SITE TECHNICAL SUPPORT

Dedicated in-house and on-site technical support teams that provide specification advice, good practice guidance, surveys and project inspections. DANOSA UK sits on trade association councils, such as the Single Ply Roofing Association (SPRA).

► CLEAR & COMPREHENSIVE SINGLE-POINT WARRANTIES AND GUARANTEES

Our warranties and guarantees include all the components supplied by DANOSA as part of a single-point cover (exc. living plants). Our system warranties benefit from additional insurance backing to cover workmanship and directly resultant consequential damage in the event of product failure.

► MEMBERS OF SPRA & NFRC

We are proud and active members of the Single Ply Roofing Association.



PREMIER CONTRACTOR SPECIALIST INSTALLER NETWORK

DANOPOL® Single Ply Waterproofing systems are available throughout our national network of Premier Contractor Partners.

Only Trained Installers registered with DANOSA UK are able to supply and install our range of specialist waterproofing systems and provide you with a DANOSA single-point warranty.

Premier Contractor partners must apply to DANOSA UK and are subjected to an audit and training to ensure that minimum levels of quality management are in place. Once these have been met and demonstrated, Premier Contractors receive a certificate of their registration status, which is renewed on an annual basis.

REGISTERED INSTALLERS

In addition to the registration of a Premier Contractor, which licences the company to purchase any DANOPOL® system materials, all individual installers must be assessed and certified by our Technical Team and attend a reassessment at least every 5 years.

When installers have met the registration criteria and passed the assessment, they are each issued with a unique installer ID number and registration card. Once registered, installers continue to receive on-site training and support from our Field Technicians. The continual support and on-site assessments ensure that our installation standards are maintained across our projects.



As further assurance as part of our quality management systems, all registered installer ID numbers are documented on our site visit reports and subsequently transferred onto the DANOSA UK System Warranty document. This ensures an audit trail which is linked directly to each unique installer ID.

DANOPOL®

AWARD-WINNING SINGLE PLY MEMBRANES

Single ply membranes are manufactured from synthetic polymers which have been developed for roofing and waterproofing applications. DANOPOL® membranes are a flexible form of PVC-p (polyvinyl chloride), which are welded together using hot air. The membranes are reinforced with either a glass fibre or polyester net, depending on the application, which provides high tear resistance whilst remaining flexible. Additionally, DANOPOL® membranes are very lightweight.



► BRITISH BOARD OF AGREEMENT (BBA) CERTIFIED

A full in-depth independent technical assessment of the DANOPOL® systems, including their manufacture, has been completed by the British Board of Agrément.

► LONG LIFE EXPECTANCY

Independently assessed by the BBA to have a service life in excess of 30 years.

► VERSATILE SPECIFICATION

A choice of attachment options and unique design options such as our Alpha Profiles and Integrated Fixing Points.

► UV RESISTANT

Engineered to withstand extreme climates, DANOPOL® membranes are manufactured with high-performance UV resistant inhibitors.

► ROT PROOF/ROOT RESISTANT

DANOPOL® membranes are root-resistant as standard.

► HIGHLY FLEXIBLE

Manufactured with a range of strong polyester and glass fibre reinforcement, our DANOPOL® systems are designed to move and flex to accommodate building movement.

► SINGLE POINT SYSTEM WARRANTIES

Our warranties include all of the components supplied by DANOSA as part of a single-point cover (exc. living plants).

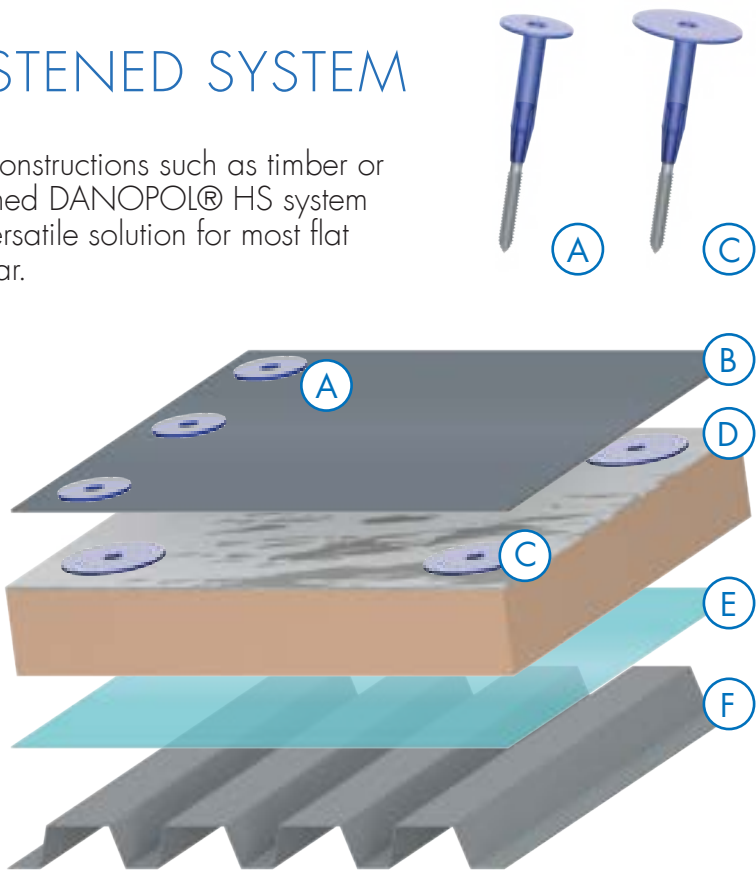


DANOPOL® PRODUCTION FACILITY, FONTANAR, SPAIN

DANOPOL®

MECHANICALLY FASTENED SYSTEM

Perfect for lightweight structural deck constructions such as timber or profiled metal, our mechanically fastened DANOPOL® HS system provides an economical, quick and versatile solution for most flat roofing applications throughout the year.



EXAMPLE SYSTEM COMPONENTS

- (A) SUREFAST SF-T-50 THERMAL-BREAK FASTENING SYSTEM (for mechanical attachment of membrane)
- (B) DANOPOL® HS MEMBRANE
- (C) SUREFAST SF-T-75 THERMAL-BREAK FASTENING SYSTEM (for mechanical attachment of insulation)
- (D) INSULATION (insulated systems only)
- (E) AIR AND VAPOUR CONTROL LAYER (insulated systems only)
- (F) STRUCTURAL DECK



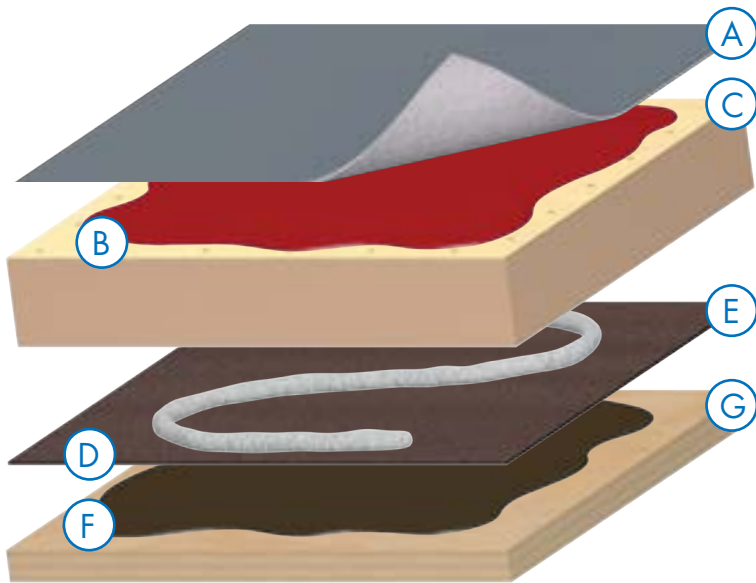
Technical Notes:

- DANOPOL® HS membranes are mechanically fastened in accordance with a project-specific wind-uplift calculation.
- A loose -laid air and vapour control layer is held in place by the attachment of the insulation boards, but can be changed for a fully adhered air and vapour control layer if preferred.

DANOPOL®

THE ADHERED SYSTEM

Quick and simple to install, our adhered DANOPOL® HSF system is a popular choice for domestic projects and refurbishment, thanks to the integral 300gsm geotextile fleece backing which avoids the need for underlying separation or protection layers.



EXAMPLE SYSTEM COMPONENTS

- (A) DANOPOL® HSF MEMBRANE
- (B) FLEECEBOND ADHESIVE
- (C) INSULATION (insulated systems only)
- (D) THERMOBOND ADHESIVE (insulated systems only)
- (E) AIR AND VAPOUR CONTROL LAYER (insulated systems only)
- (F) BITUMEN PRIMER
- (G) STRUCTURAL DECK



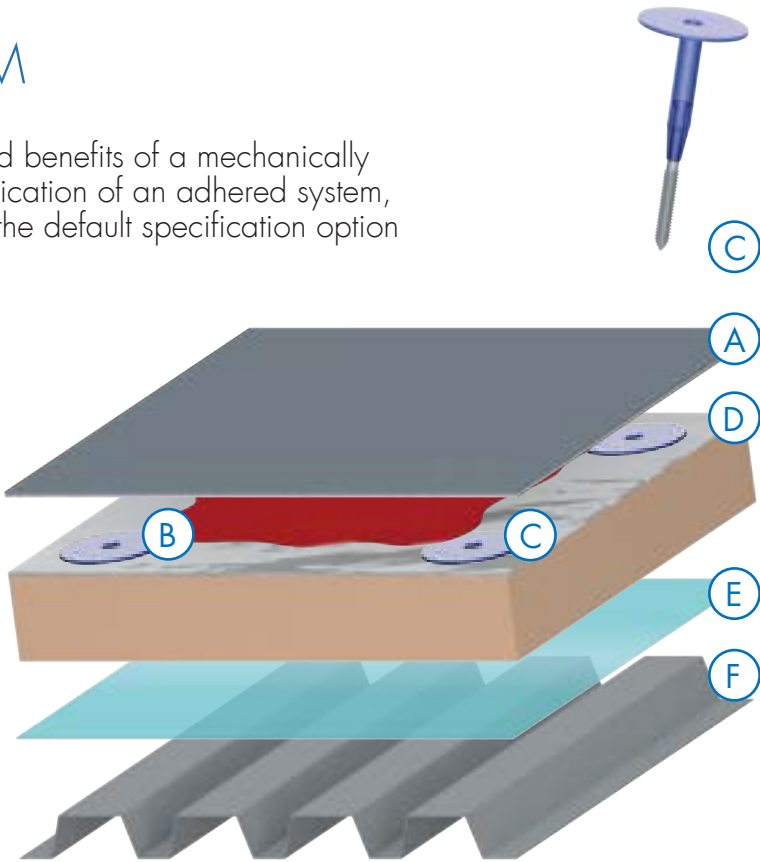
Technical Notes:

- Whilst the DANOPOL® HSF membrane is adhered to the majority of the roof, some components such as perimeter trims and restraint bars still require mechanical fastening.
- Our advanced spray-applied adhesives provide superior resistant to wind uplift and can be applied throughout the year.

DANOPOL®

THE HYBRID SYSTEM

Combining the economical and speed benefits of a mechanically fastened system with the ease of application of an adhered system, our Hybrid+ system is fast becoming the default specification option of choice.



EXAMPLE SYSTEM COMPONENTS

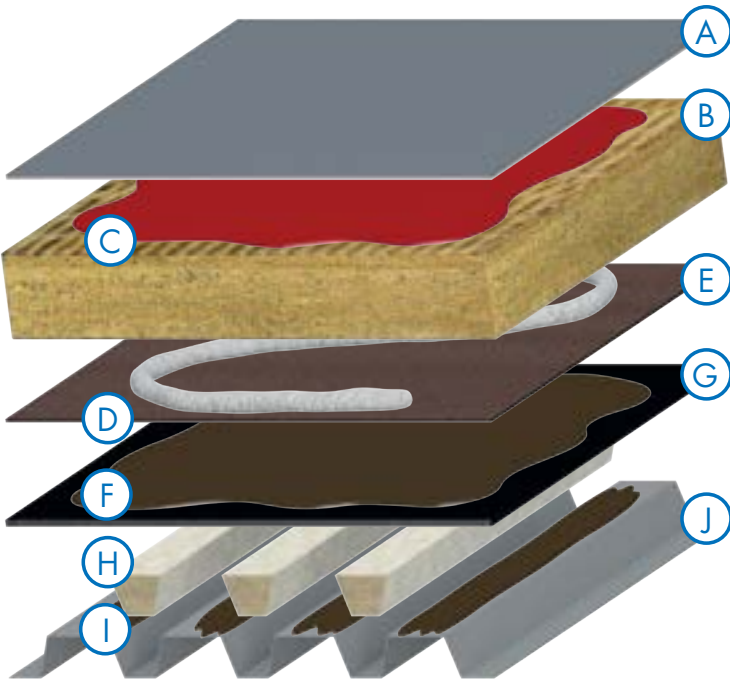
- (A) DANOPOL® HSF MEMBRANE
- (B) FLEECEBOND ADHESIVE
- (C) SUREFAST SF-T-75 THERMAL-BREAK FASTENING SYSTEM (for mechanical attachment of insulation)
- (D) INSULATION (insulated systems only)
- (E) AIR AND VAPOUR CONTROL LAYER (insulated systems only)
- (F) STRUCTURAL DECK



DANOPOL®

FOR ACOUSTICS

Bespoke acoustic systems can be designed to combat rain drumming noise on lightweight structural decks or to create acoustically controlled environments, such as a music room or cinemas. Dense acoustic components combined with lightweight DANOPOL® membranes, make this an ideal specification choice.



EXAMPLE SYSTEM COMPONENTS

- (A) DANOPOL® HSF MEMBRANE
- (B) FLEECEBOND ADHESIVE
- (C) STONEWOOL INSULATION (insulated systems only)
- (D) THERMOBOND ADHESIVE (insulated systems only)
- (E) AIR AND VAPOUR CONTROL LAYER (insulated systems only)
- (F) BITUMEN PRIMER
- (G) ACOUSTIC MEMBRANE
- (H) STONEWOOL TROUGH FILLERS
- (I) THERMOBOND ADHESIVE
- (J) STRUCTURAL DECK



Technical Notes:

- We can provide information to a project Acoustician to assist in solving an airborne sound reduction (dB) rating or an impact/rain noise sound intensity level.
- BB93 outlines the acoustic specification standards for schools and education. In the health sector HTM 08-01 applies.

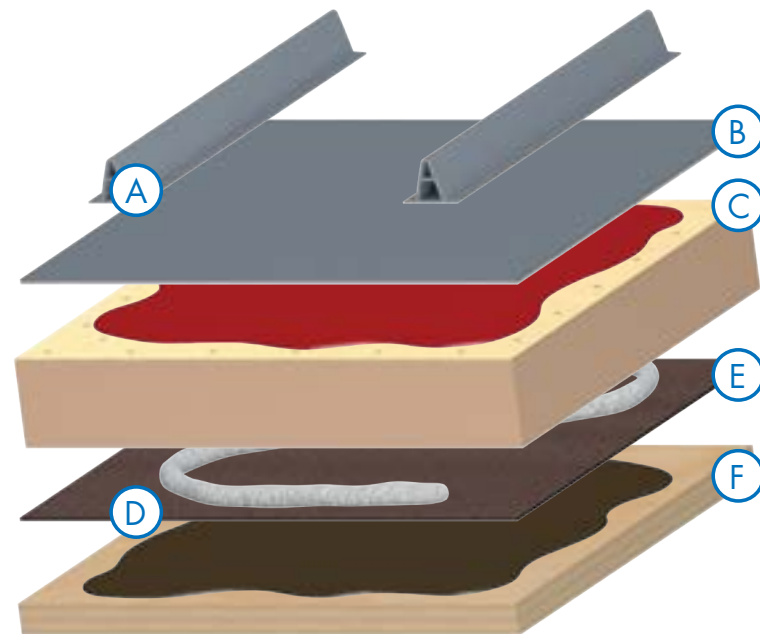


DANOPOL® THE ALPHA PROFILE SYSTEM

Simple to install and highly customisable, our Alpha Profiles provide a visually striking appearance to a completed roof system. Mimicking that of a traditional metal roof construction, it is a very common value engineering option to consider.

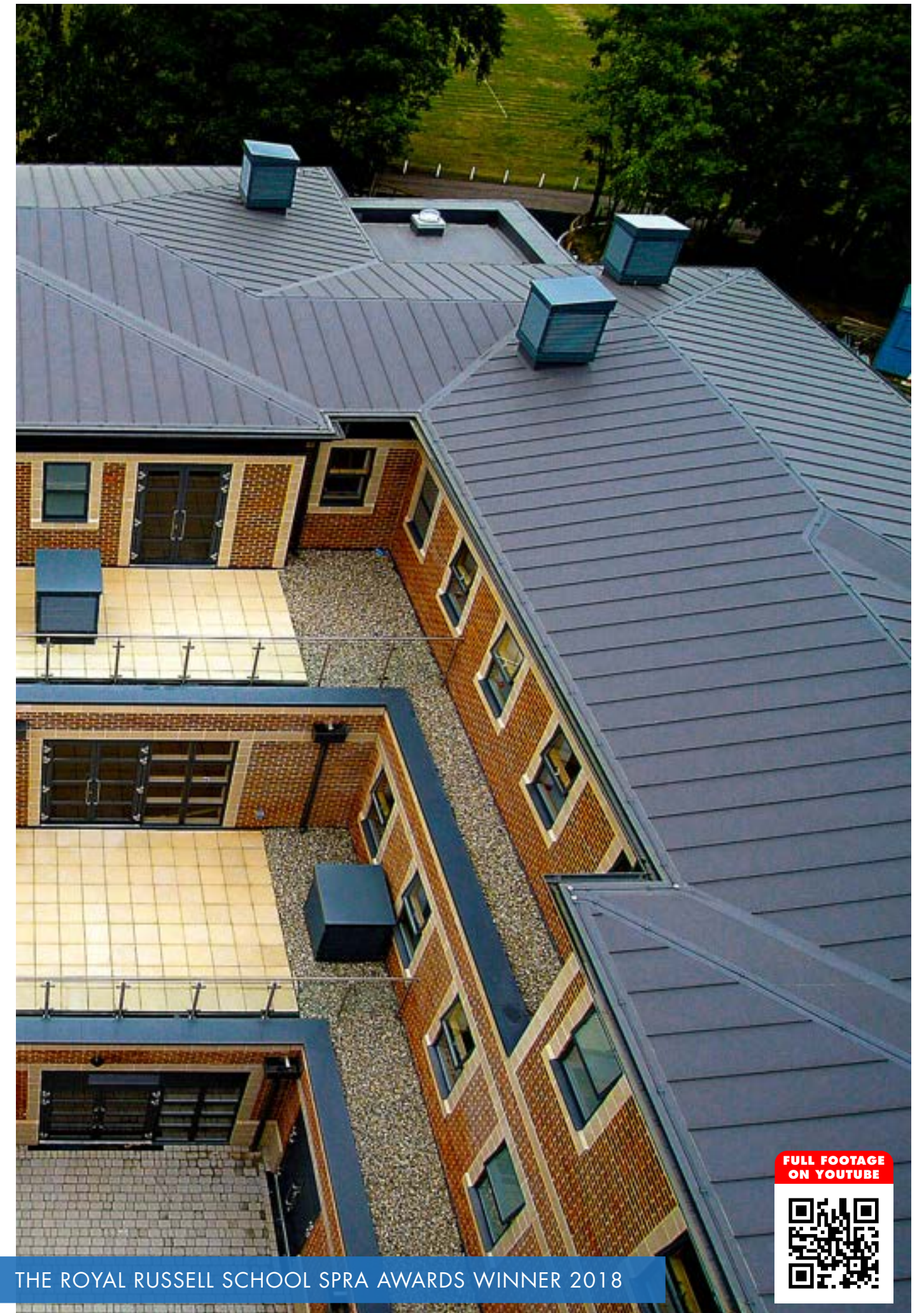
EXAMPLE SYSTEM COMPONENTS

- (A) ALPHA PROFILES
- (B) DANOPOL® HSF MEMBRANE
- (C) FLEECEBOND ADHESIVE
- (D) TISSUE PIR INSULATION
(insulated systems only)
- (E) THERMOBOND ADHESIVE
(insulated systems only)
- (F) AIR AND VAPOUR CONTROL LAYER
(insulated systems only)
- (G) BITUMEN PRIMER
- (H) STRUCTURAL DECK



Technical Notes:

- Alpha Profiles can be installed after the waterproofing has been completed. They're hot-air welded to the finished DANOPOL® waterproofing.
- A typical DANOPOL® waterproofing system weighs around 3kg/m², meaning there is less load imposed onto the underlying roof deck and structure.



THE ROYAL RUSSELL SCHOOL SPRA AWARDS WINNER 2018

FULL FOOTAGE
ON YOUTUBE





OAT ERRISH FARM USING DANOFIX SYSTEM FOR WOODEN CLADDING

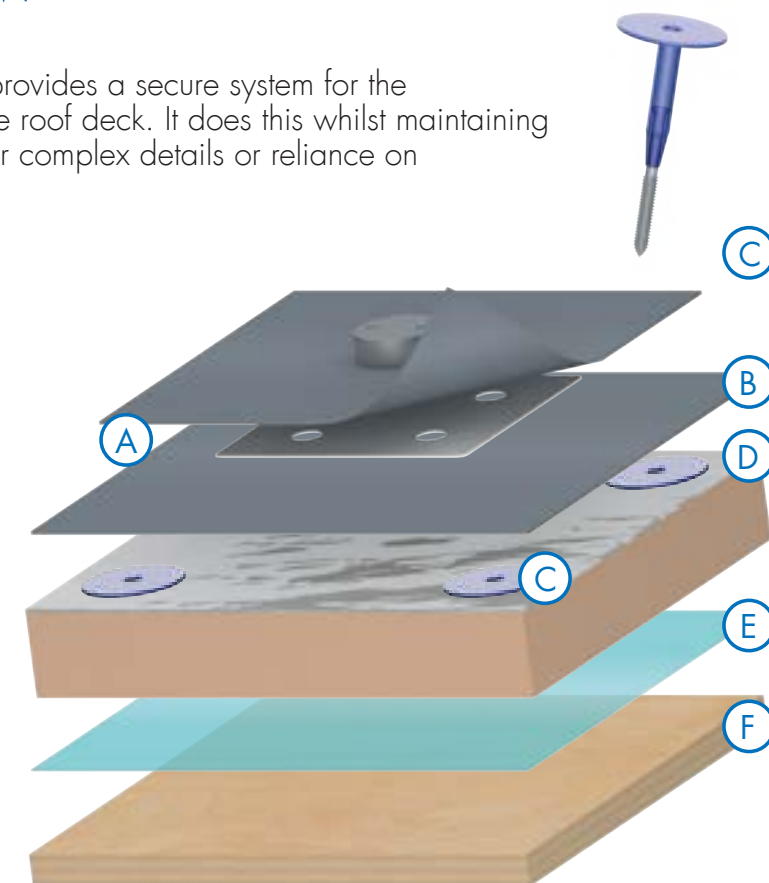
DANOPOL®

THE DANOFIX IFP SYSTEM

Our Integrated Fixing Point system, DANOFIX, provides a secure system for the attachment of a variety of products directly to the roof deck. It does this whilst maintaining an entirely watertight seal, avoiding the need for complex details or reliance on maintainable rooftop sealants and bonding.

EXAMPLE SYSTEM COMPONENTS

- (A) DANOFIX IFP 250
- (B) DANOPOL® MEMBRANE
(DANOFIX is compatible with HSF + HS systems)
- (C) SUREFAST SF-T-75 THERMAL-BREAK FASTENING SYSTEM
(for mechanical attachment of insulation)
- (D) INSULATION LAYER
(insulated systems only)
- (E) AIR AND VAPOUR CONTROL LAYER
(insulated systems only)
- (F) STRUCTURAL DECK



Technical Notes:

- The DANOFIX IFP is a low-profile stainless steel fixing point which allows for a secure structural fix without compromising the waterproofing membrane layer; to which brackets, rails and supporting systems can be directly bolted.
- The underlying base plate is mechanically fastened directly to the structural roof deck after the waterproofing has been completed, at centres specified by the project engineer.

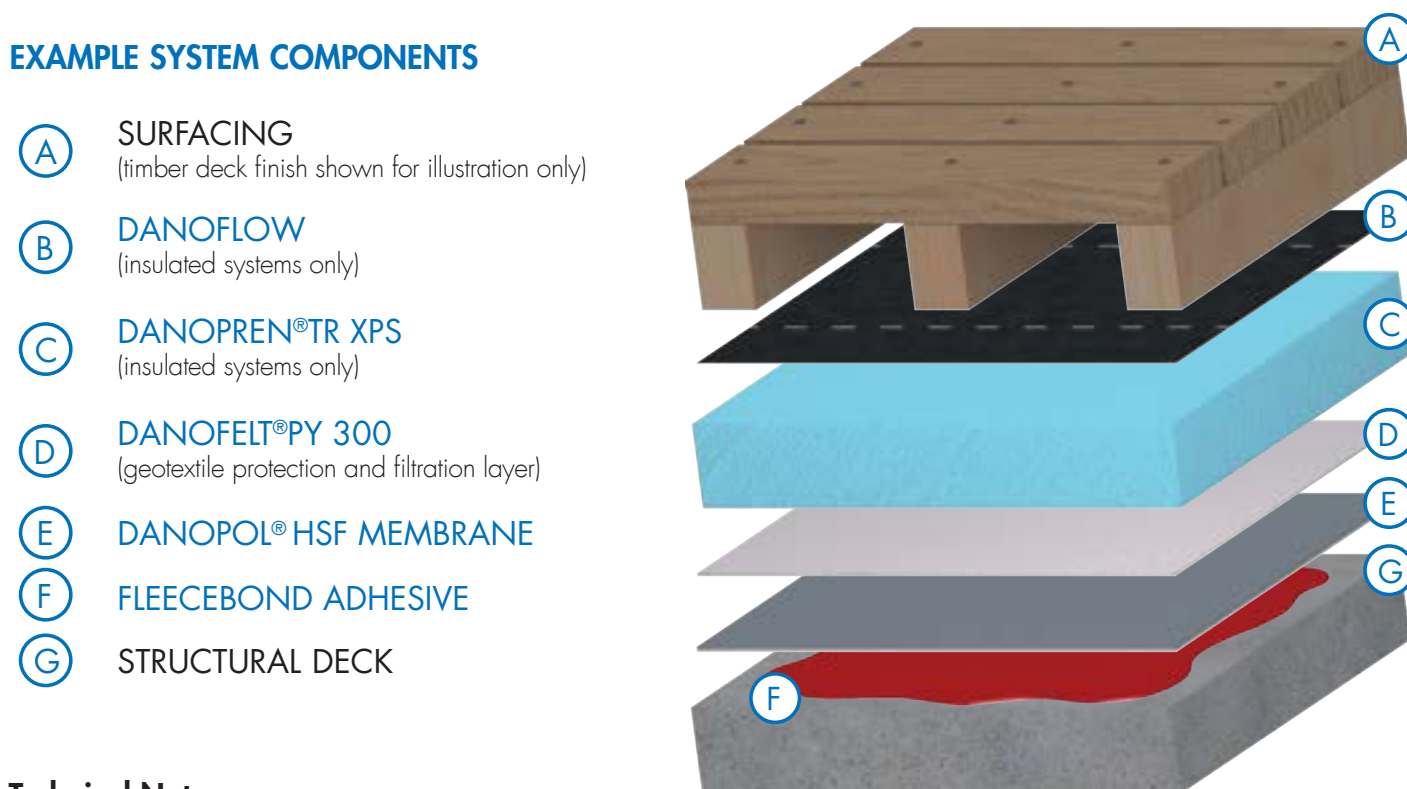




DANOPOL® FOR TERRACES

In order to make the most of available floor-space, enjoyable roof spaces are becoming increasingly popular specification options. DANOPOL® systems offer a robust solution and can be installed as either a warm roof, or an inverted roof as depicted below, depending on the anticipated loadings.

EXAMPLE SYSTEM COMPONENTS



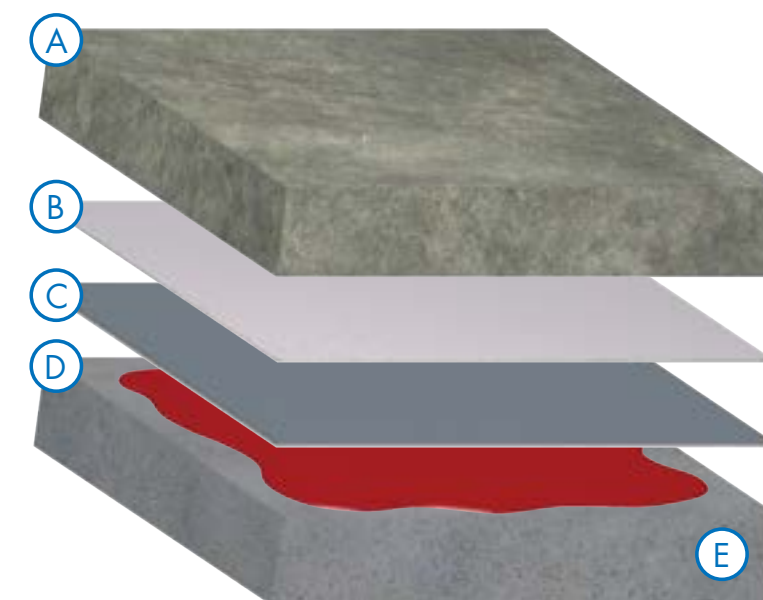
- (A) **SURFACING**
(timber deck finish shown for illustration only)
- (B) **DANOFLOW**
(insulated systems only)
- (C) **DANOPREN®TR XPS**
(insulated systems only)
- (D) **DANOFELT®PY 300**
(geotextile protection and filtration layer)
- (E) **DANOPOL® HSF MEMBRANE**
- (F) **FLEECEBOND ADHESIVE**
- (G) **STRUCTURAL DECK**

Technical Notes:

- A variety of different surfacing options can be used with this system. Speak to our Technical Department for further specification advice.
- DANOPREN TR XPS can resist point loads of up to 300KPa. If loading is to be greater than this, a 500KPa variant, DANOPREN 500 XPS is available.

DANOPOL® FOR BALCONIES

We specify not only terraces, but balconies as well. As they don't sit above the enclosed building, balconies do not require insulation integrated into the waterproofing system.



EXAMPLE SYSTEM COMPONENTS

- (A) **NON-COMBUSTIBLE SURFACING**
- (B) **DANOFELT®PY 300**
(geotextile protection and filtration layer)
- (C) **DANOPOL® HSF MEMBRANE**
- (D) **FLEECEBOND ADHESIVE**
- (E) **STRUCTURAL DECK**

Interesting facts:

- The word "balcony" originated from the Italian word "balcone," which means "scaffold" or "large window."
- Balconies were used as defensive structures in ancient times, with soldiers standing on them to protect their fortresses from attackers.

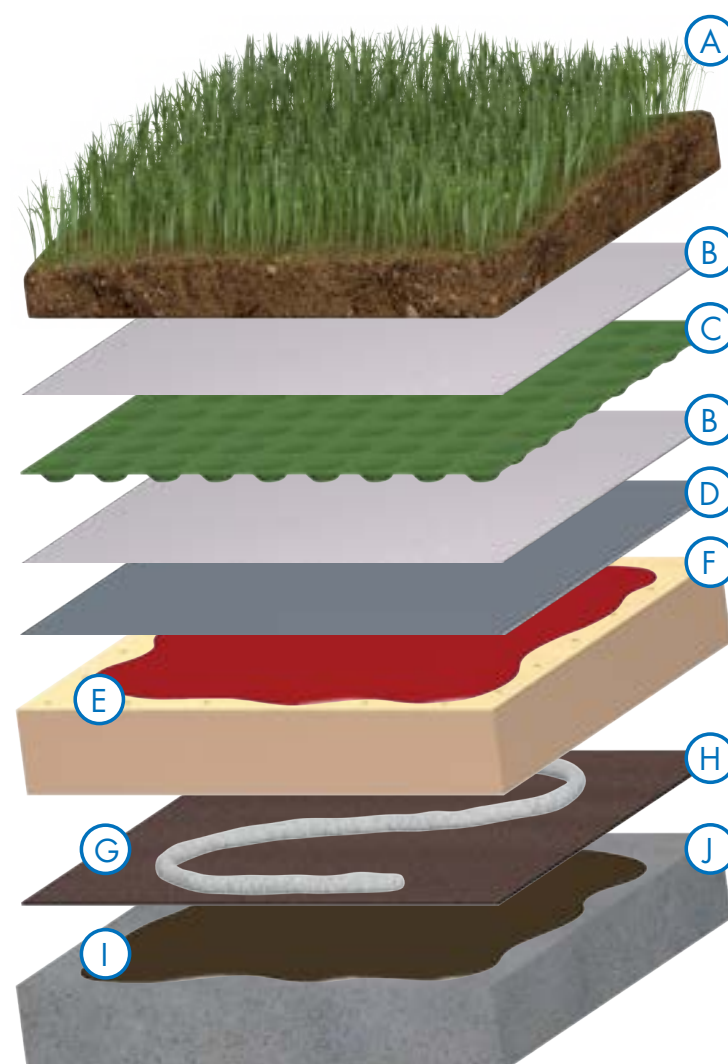




A living roof provides environmental and aesthetic benefits to any construction and is a popular choice for city developments.

EXAMPLE SYSTEM COMPONENTS

- (A) **DANOSA LIVING ROOF SYSTEM**
(as specification)
- (B) **DANOFELT® PY 300**
(geotextile protection and filtration layer)
- (C) **DANODREN® JARDÍN**
(specialist drainage as specification)
- (D) **DANOPOL® HSF MEMBRANE**
- (E) **FLEECEBOND ADHESIVE**
- (F) **TISSUE PIR INSULATION**
(insulated systems only)
- (G) **THERMOBOND ADHESIVE**
(insulated systems only)
- (H) **AIR AND VAPOUR CONTROL LAYER**
(insulated systems only)
- (I) **BITUMEN PRIMER**
- (J) **STRUCTURAL DECK**



Technical Notes:

- DANOPOL® is suitable for all types of living roof systems and both HSF and HS membranes are root-resistant as standard.

WHY CONSIDER A LIVING ROOF?

Current market reports show a very healthy year on year growth for the green/living roof sector in the UK and it is not hard to see why. In addition to the more apparent environmental and aesthetic benefits, there are many additional benefits which local authorities, specifiers and homeowners alike are noticing, especially in built-up areas.

► PROTECTS ROOF - INCREASING LIFE EXPECTANCY

The waterproofing system is protected from the harmful effects of UV degradation and from potential damage when people traffic the roof area.

► IMPROVED ACOUSTIC & THERMAL PERFORMANCE

Noticeable improvements can be enjoyed with the addition of a living roof system. However, whilst it is not possible to account for such performance in thermal and acoustic calculations, many buildings consider this added benefit in the project specification.

► RECREATION OF NATURAL HABITATS

Promotes biodiversity and replaces green spaces which may have been lost during the construction. In other instances, new habitats can be created by replicating the ecology of the surrounding local area.

► ATTENUATION OF RAINWATER

Reduce rainwater run off during heavy rain and slow the rate of discharge to drainage system by attenuating the water at roof level with DANODREN drainage layers. The rainwater held at roof level will also quench the planting, reducing maintenance levels required.

► REDUCTION OF HEAT ISLAND EFFECT

Living roofs provide shade and remove heat from the air and can reduce city-wide ambient temperatures by up to 5°C.

► IMPROVED AIR QUALITY, WELL BEING & REDUCED AIR POLLUTION

By reducing roof temperatures, there is less demand on the use of air conditioning units, lowering our impact on the environment. Vegetation can also remove pollutants and Green House Gasses from the air through.

LIVING ROOF SYSTEM TYPES:



EXTENSIVE:

A relatively lightweight and versatile system and the most common type of living roof. These systems feature relatively low maintenance planting, such as low growing wild-flowers or sedum blankets.



INTENSIVE:

Rooftop landscaping, designed to replicate a typical ground-level garden. These systems have very specific planting requirements and often include lawns and other amenity spaces.



BIODIVERSE:

Replaces or replicates ground-level ecosystems to encourage biodiversity, wildlife and positive ecology. Often these systems are allowed to self-colonise and require very little maintenance.

SUBSTRATES

SUITABLE FOR DANOPOL® SYSTEMS

Roof substrates are the base layers on to which the roofing materials are applied. The substrate is typically a structural platform to provide a stable, flat surface for the roofing materials to be installed and to transfer the weight of the roofing system and imposed loads to the structure.

The choice of waterproofing system will be influenced by the type of substrate and the overall design of the building. Here at DANOSA, we can supply metal and timber substrates for your roof, each of which are compatible with our DANOPOL® systems as part of a full roof system solution.

TIMBER DECK

A timber roof deck is a type of substrate commonly used in residential and commercial roofing systems. Timber is a versatile material that is easy to work with, making it a popular choice for architects and builders. A timber deck may be less suitable for buildings with higher fire risks or a need for compartmentation. Subject to an engineers design review, timber decks are recommended to be a minimum of either 18mm OSB/3 or structural (S) grade plywood, or 25mm tongue and groove softwood.



PROFILED METAL DECK

A metal roof deck is a type of substrate commonly used in commercial and industrial roofing systems. It is a durable and lightweight material that can withstand heavy loads, making it ideal for large buildings. Metal roofs also have excellent fire-resistant properties and require minimal maintenance, making them a cost-effective and long-lasting roofing solution.



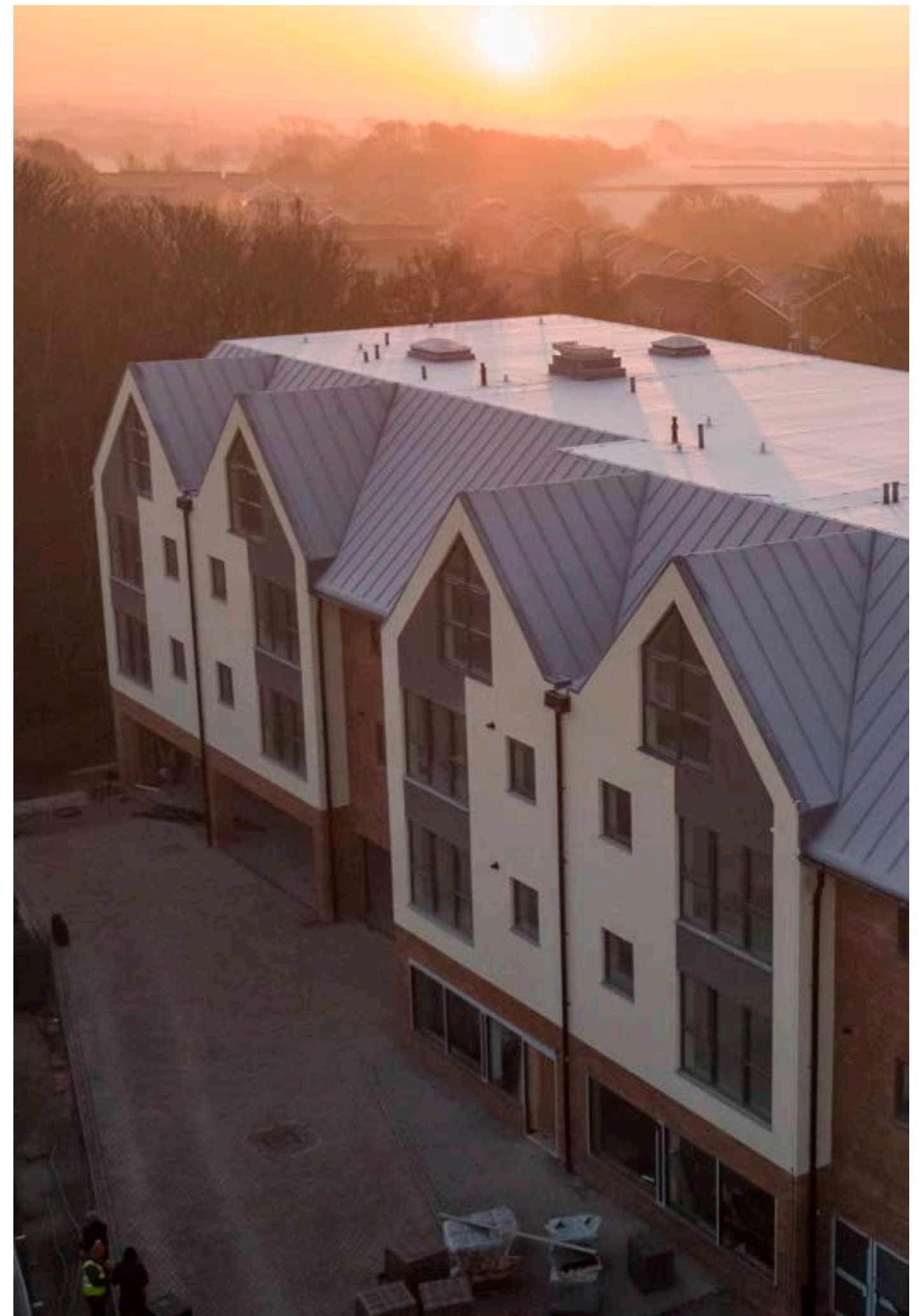
CONCRETE DECK

A concrete roof deck is a type of substrate commonly used in flat roofing systems. Concrete is a durable material that can withstand harsh weather conditions, making it ideal for commercial and industrial buildings. It can also provide good insulation and help reduce energy costs, making it a popular choice for eco-friendly buildings.



Extra Notes:

- Timber decking is a common choice for residential and commercial buildings because it is affordable, easy to install, and provides good insulation.
- The substrate's quality and condition are essential to the longevity and performance of the roofing system. The substrate should be able to withstand the weight of the roofing materials and environmental factors like wind, rain, and snow loads.



ROOFLIGHTS

INC. ACCESS HATCHES AND OPENING VENTS

As part of our system range, DANOSA can provide a range of standard and bespoke rooflights, access hatches, and opening vents suitable for a variety of applications and to suit most performance specifications.

Our units are suitable for warm, cold, and inverted applications and can be supplied as domes with an adaptor kerb to fit any pre-constructed site kerbs. For specialist ventilation requirements, our rooflights can be manufactured with manually operated or automatic opening mechanisms, as required by the design strategy.



- ▶ ACHIEVE A U-VALUE AS LOW AS 1.01W/M2K
- ▶ VARIOUS OPTIONS AVAILABLE TO MEET YOUR REQUIREMENTS FOR LIGHT TRANSMISSION, THERMAL PERFORMANCE, VENTILATION, AND ACOUSTICS.
- ▶ CHOOSE FROM CONTEMPORARY LOW-RISE PROFILES, SUCH AS DOME OR PYRAMID OPTIONS
- ▶ CONCEAL COMPONENTS OF POWERED OPENING DOMES FOR UNOBSTRUCTED LIGHT WELL
- ▶ ENJOY EASY INSTALLATION WITH THE TAPERED KERB FOOT, WHICH ELIMINATES THE NEED FOR TIMBER FILLETS AND PROVIDES A CLEAN EXTERNAL FINISH FOR ALL TYPES OF ROOFING.
- ▶ IDEAL FOR FLAT ROOF APPLICATIONS WITH A TYPICAL PITCH RANGE OF 0° TO 15°.

GLAZING SHAPE OPTIONS



DOMES



PYRAMID

GLAZING TINT



CLEAR



OPAL



PATTERNED



TECHNICAL SUPPORT HERE TO HELP

We host an expansive array of standard application instructions, product datasheets, technical support statements and other resources on our dedicated portals. These resources are continually updated to ensure that the latest information is always available to our network.

Whilst standard installation instructions (details) will apply to most constructions, there may be instances where unavoidable restrictions require an alternative solution. DANOSA has a team of Field Technicians who are on hand to offer support and guidance on good practice guidelines, how to use and install our products and, just as importantly, how to protect the products and systems after installation. Our team can attend design coordination meetings in the initial stages to offer any assistance and advice on sequencing with other trades.

SPECIFICATION SERVICES

Our dedicated DANOSA UK Team are on hand to write your project specification. Based closely upon the NBS style, we can tailor your full system specification to include a detailed description of all the DANOSA system products described.

CALCULATION SERVICES

We offer U-Value (thermal) and condensation risk calculations, windload calculations for uplift, rainwater and drainage (flow rate) calculations and predicted Airborne Sound Reduction calculations.

ADDITIONAL SERVICES

Our services include the provision of Tapered Insulation Schemes (for warm roof systems), and a library of standard CAD drawings.

Contact our team at uktechnical@danosa.com.

Whether it's a new build project where a new detail or low-risk solution needs to be formulated to accommodate the design, or if it's a refurbishment project where you would like further specification options, our team will produce a full technical report detailing the visit and any subsequent recommendations. As part of our quality management systems, all projects requiring System Warranties must be inspected by our team.



SYSTEM WARRANTIES & PRODUCT GUARANTEES



Unlike other manufacturers, our exclusive Danosa System Warranty covers all components of the waterproofing system which have been supplied by us - at no additional charge. Our single point warranties and guarantees provide long term assurance that the systems we supply are robust and provide the maximum service life possible.

Warranties protect you against the failure of materials, e.g. where they fail to provide their service or function. However, whilst many manufacturers stop at this point, issuing a warranty (or guarantee) should not be the limit of responsibility. We have a highly proficient technical team to assist the construction team throughout the design, specification and build stages..

Furthermore, working with our registered Premier Contractors and Distribution Accounts, we recommend that all installers of DANOPOL® systems are fully trained in how to specify, use, and install our systems.

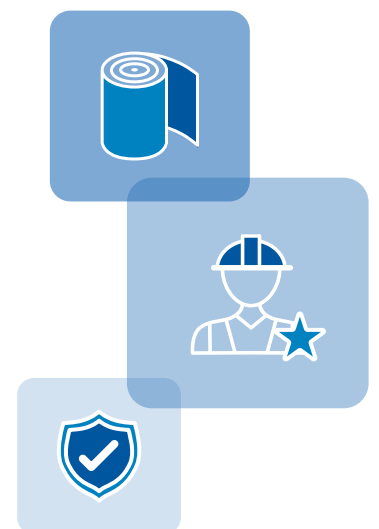
Continual training and development is delivered through our dedicated online portals which transmit the latest CAD design details, product datasheets and other supporting literature to our Premier Contractors, Architects and specifiers.

As an added benefit, your system warranty or product guarantee may be transferred to a new building owner in the event that your property is sold.

A DANOSA SYSTEM WARRANTY INCLUDES:

- ▶ Payment for the cost of repairing and/or replacing any failed waterproofing products.*
- ▶ Payment to cover the workmanship required to repair or replace a product failure.*
- ▶ A certificate issued for every project, complete with a list of products supplied by us.

Additional cover is provided within System Warranties to cover directly resultant consequential damage in the event of a product failure. Contact ukwarranties@danosa.com for more information.





SUSTAINABILITY COMMITMENTS TO A BETTER FUTURE



DANOSA recognises that every business has an important role to play in the local, regional and sometimes global environment. We want to promote a new way of understanding sustainable construction by relating to, creating synergies with, and combining experiences with other businesses to move forward together.

We are committed to making continuous improvements by seeking advice from leading experts to reduce our footprint and improve our systems of operations and sourcing. It's an undeniable fact that the planet's resources are depleting and DANOSA prides itself on its approach towards green issues and our environment.

► ENERGY EFFICIENCY

The most important pillar for the reduction of carbon footprint in today's society is energy efficiency, based on the reduction of energy consumption, and that these consumed energies are renewable. Energy efficiency is one out of two strategic lines practiced by DANOSA, with the aim of advancing in sustainable development, because it's in the very essence of our business; many of our products/solutions are designed precisely for that (XPS, EPS...)

► AENOR SUSTAINABILITY N MARK

DANOSA has achieved many certifications for its dedication to sustainability in Spain and the EU, including the N Mark from AENOR that endorses the quality of DANOSA's products and environmental & social commitments. DANOSA is looking to further its proof of sustainable commitments in the UK national certifications.



► SDGs

Our Net Zero commitment is fully aligned with two of the four SDGs (Sustainable Development Goals; UN Agenda 2030) Those DANOSA SDGs are: SDG 13.- Climate Action; and SDG 11.-Sustainable Cities and Communities.



DANOSA RECYCLING

Danosa Recycling was born in 2012 from a concern and need for DANOSA to find solutions in managing the waste generated during production processes. Danosa Recycling is another step in our commitment to the environment and the circular economy. Currently, Danosa Recycling not only gives value to the waste generated in its own industrial processes, but also processes and recycles the waste generated by other businesses and industries to give said waste a second life and promote sustainability in the Construction sector.



CERTIFICATION

INC. RESEARCH, DEVELOPMENT & QUALITY CONTROL

Servicing a global marketing can be a challenge at times, but by developing our products in accordance with an array of internationally recognised standards and commitments, such as the European Harmonised Standard (CE Mark) and the incoming UK CA marking (2025), we are able to continue to deliver the highest standards across the board.

Whilst independent testing and certification, such as the British Board of Agreement's BBA certification scheme, is an important tool to ensure that products (or systems) meet certain material, production and performance standards, we made a commitment to ensure that our products are monitored and tested continually.

To deliver on this commitment, DANOSA has invested in a state-of-the-art in house testing and product development facility at our factory in Fontanar, Spain. These test procedures are incorporated in our Quality Management Systems of operation which ensure that each product line is continuously monitored and that batch samples are obtained and tested by our technicians and technical teams.

Our research and development department works closely with our technicians to deliver new technologies and modifications to our products. As a result of this continuing development, DANOSA has developed a range of premium specialist systems, including our range of **DANOPOL®+ Single Ply Membranes** with superior UV resistance. These premium engineered products and systems are robust and long-lasting, including specific modifications to meet the demands of our UK construction habits as well as the challenges presented by our climate.

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Agrément Certificate
14/5118
 Product Sheet 3

DANOSA SINGLE-PLY ROOF WATERPROOFING MEMBRANES
DANOPOL® HSF AND DANOPOL®+ HSF PVC MEMBRANES

This Agrément Certificate Product Sheet⁽¹⁾ relates to DANOPOL® HSF and DANOPOL®+ HSF PVC Membranes, for use loose-laid and ballasted systems in fully adhered and pitched roofs with limited access, roof gardens on flat roofs, or green and brown systems on flat and pitched roofs.

(1) Hereinafter referred to as 'Certificate'.

CERTIFICATION INCLUDES:

- factors relating to compliance with Building Regulations where applicable
- factors relating to additional non-regulatory information where applicable
- independently verified technical specification
- assessment criteria and technical investigations
- design considerations
- installation guidance
- regular surveillance of production
- formal three-yearly review.

KEY FACTORS ASSESSED

Weathertightness — the products will resist the passage of moisture into the interior of a building (see section 6).

Properties in relation to fire — the products may enable a roof to be unrestricted under the national Building Regulations (see section 7).

Resistance to wind uplift — the products will resist the effects of any likely wind suction acting on the roof (see section 8).

Resistance to mechanical damage — the products will accept the limited foot traffic and loads associated with installation and maintenance and minor structural movements occurring in service (see section 9).

Resistance to penetration by roots — the products will adequately resist plant root penetration (see section 10).

Durability — under normal service conditions, the products will provide a durable roof waterproofing with a service life in excess of 35 years (see section 12).

The BBA has awarded this Certificate to the company named above for the products described herein. These products have been assessed by the BBA as being fit for their intended use provided they are installed, used and maintained as set out in this Certificate.

On behalf of the British Board of Agrément

Date of Third Issue: 4 August 2021

Originally certificated on 3 March 2018

Hardy Giesler
Chief Executive Officer

The BBA is a UKAS accredited certification body – Number 112.
The schedule of the current scope of accreditation for product certification is available in pdf format via the UKAS link on the BBA website at www.bba.org.uk.
Readers MUST check the validity and latest issue number of this Agrément Certificate by either referring to the BBA website or contacting the BBA directly.
Any photographs are for illustrative purposes only, do not constitute advice and should not be relied upon.

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An example of one BBA Certification for our DANOPOL® range.



View all company certificates on our website by scanning this QR Code. For queries about our certification or product test results, contact uktechnical@danosa.com.



DANOSA LABORATORY, FONTANAR, SPAIN

DANOPOL® CASE STUDIES



OLD POLEGATE STATION

A skillfully installed light-weight DANOPOL® roofing system on a 3.5 storey building with 22 flats. The elegant Alpha Profile finish achieves a striking heritage zinc effect. This careful design perfectly harmonises the demands of contemporary architecture while dutifully preserving the cherished heritage values of the town.



SOVEREIGN HOUSE

A new build project with various types of roof. The roof totals at 520 m², including the main flat roofs and dormer tops which consist of DANOPOL® HS mechanically fixed membranes in anthracite colour above foil-fix PIR insulation and a Polythene 1000 VCL.



PARK VIEW HOUSE

The incredible extension on this already beautiful house is waterproofed in DANOPOL® HS membranes using the mechanically fixed system. The cladding is attached to the roof using Danosa's Integrated Fixing Points (IFP).



OAT ERRISH FARM

Winner of the SPRA Awards for the Most Innovative Project 2018 and featured on TV show Grand Designs. This 400 m² project was completed with our DANOPOL® membrane before being covered with IFPs.



THE CROWS NEST

Winner of the SPRA Awards for The Most Innovative Project 2017. This project features a hidden roof system, completed with our IFP system which ties into the surrounding cladding system, creating a seamless finish.

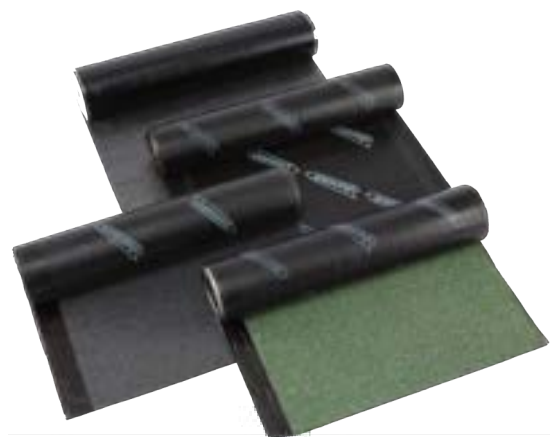


TREVISSOME PARK

An unusual and unique project development completed with full system DANOPOL® specification. After the waterproofing was completed, a ballasted artificial grass system was installed to the full area.

DISCOVER A WORLD OF DANOSA SOLUTIONS

DANOSA is more than just single ply and waterproofing systems. We also manufacture acoustic insulation, thermal insulation, geotextiles, drainage membranes and more! Contact uksales@danosa.com for more information on each product range.



BITUMINOUS MEMBRANES

Commonly known as roofing felt, our range of POLYDAN® systems are specially formulated polymer modified reinforced bitumen roofing membranes. Comprised of 3 key components: a polymer modified bitumen compound, a reinforcement layer and a variety of upper and lower surface finishes.



HOT MELT STRUCTURAL WATERPROOFING

A unique solution which provides exceptional performance for the lifetime of the building. The DURADAN® system includes specially formulated hot-applied elastomeric liquid compound, which fully bonds to the structure being waterproofed, and is poured through a heavy-duty reinforcement layer. The final component, the system capsheet, which seals the system, adds an additional factory-controlled mass of elastomeric compound.



DANOFORCE LIQUID WATERPROOFING

DANOFORCE® FLEX HP is a fast-curing and versatile flexible hybrid polymer, drawing from the key benefits of different liquid technologies and combining them into a fast, robust, highly flexible and cost-effective solution. Our liquids use a chemical catalyst and cold weather accelerators, ensuring quick installation year-round.



ACOUSTIC INSULATION

Our high performance acoustic insulation products will help to ensure that all elements that make up the exterior enclosures of buildings have adequate characteristics to reduce the transmission of both airborne and impact noise. DANOSA has over 60 years experience in market-leading, revolutionary acoustic products and systems.



THERMAL INSULATION

DANOPREN® thermal insulation is manufactured from rigid extruded polystyrene (XPS) foam, free of CFCs, HCFCs, and HFC compounds. The 1250mm long by 600mm wide boards are produced using an extrusion process which provides a closed-cell structure, unlike other open-cell alternatives.



GEOTEXTILES

Our DANOFELT® product range has two products based on the type of fibre in the geotextile. The differentiates PY products manufactured in polyester and PP produced manufactured in polypropylene. These geotextiles are used as auxiliary layers in different waterproofing systems to fulfil different functions such as filtration, separation, drainage, protection and more.



DRAINAGE MEMBRANES

The DANODREN® product range contains all the manufactured high-density polyethylene (HDPE) nodular sheets. One of the standout products in the range are the PLUS sheets that incorporate a polypropylene geotextile and R-20 sheets for green roofs that allow water retention. Another function includes an anti-capillary action barrier in buried structures or drainage systems.

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Important Note:
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They have not been left blank for the express purpose of writing on these pages.



MANUFACTURERS OF FLAT ROOFING MATERIALS,
THERMAL & ACOUSTIC INSULATION & DRAINAGE

Discover a world of DANOSA solutions

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