

# CARLISLE® Roofing Systems

COMPLETE WATERPROOFING SOLUTIONS  
FOR FLAT ROOFS





# Let's build a better tomorrow

For more than 50 years, CARLISLE® CM Europe has been a leading manufacturer of high-quality waterproofing systems including EPDM, TPO, Cold and Hot applied liquid waterproofing. From our RESITRIX® and HERTALAN® EPDM membranes to our SURE-WELD® TPO membranes, ARBOFLEX® PU liquid applied waterproofing and SURE-MELT® bituminous waterproofing system, we offer a wide range of flat roof solutions to meet the requirements of any project.

Our products are trusted by architects, designers, roofing contractors, building owners and roofers around the world for their durability, performance, and sustainability. We are committed to providing our customers with the best possible solutions and support, so they can build a better tomorrow for themselves and their communities.

## Why Choose CARLISLE® CM Europe?

### **Comprehensive product portfolio**

We offer a wide range of waterproofing solutions for flat roofs so you can find the perfect system for your project.

### **High quality and performance**

Our products are made with the highest quality materials and construction methods, so you can be confident that they will provide long-lasting protection against water and other elements.

### **Sustainable solutions**

We are committed to developing and manufacturing sustainable waterproofing systems that protect the environment, achieve circularity and reduce energy costs.



### CARLISLE® Experience

We offer a team of experienced and knowledgeable professionals who are here to help you choose the right products for your project from the design stage through to the installation process.

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# Sustainability



At CARLISLE®, we believe that sustainability should be built into everything we do and every product we bring to market. But that principle has to mean more than answering the latest compliance requirements. We help our customers specify and construct buildings that perform better, waste less and deliver the environmental goals of the project throughout its lifecycle.

We aim to reduce our own environmental impact, minimise the environmental impact of our products and to enable our customers to build sustainability into building performance. To do that, we consider the sustainability of our products and your projects throughout its lifecycle.



#### Our roofing system range includes products that:

- Address both the causes and the consequences of climate change
- Offer an extended service life to reduce raw material consumption
- Provide buildability advantages that reduce waste
- Have the capacity to be recycled with cradle-to-cradle circularity



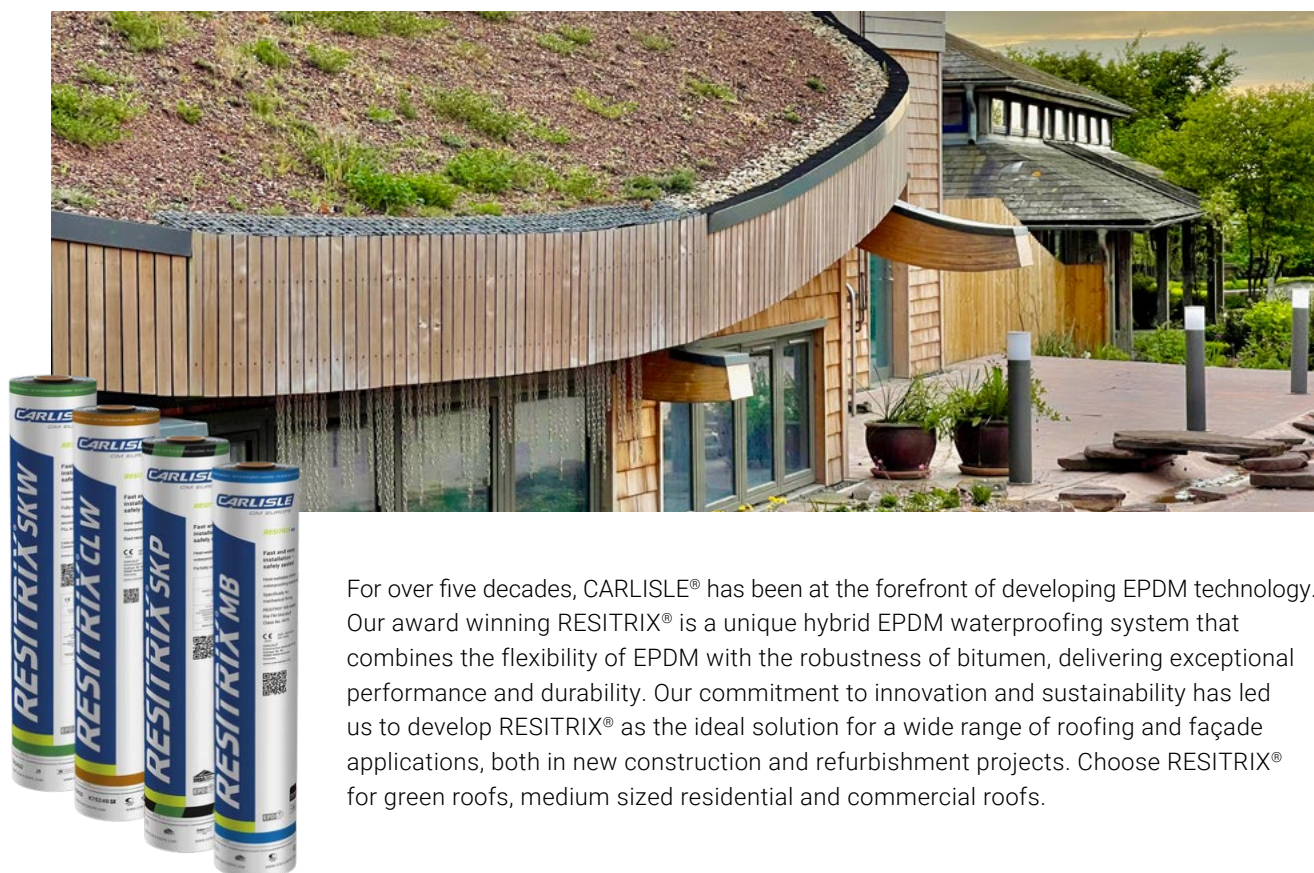
# Product Range







- ① SURE-WELD® TPO are high performance light coloured membranes well suited for use under PV or solar installations.
- ② RESITRIX® Hybrid EPDM membranes for roof waterproofing or  
  
HERTALAN® made to measure sheets mechanically fixed using induction fixing system.
- ③ ARBO® Façade System includes fire-resistant façade system EPDM rolls, silicone sealants, adhesive tapes and expanding strip products.
- ④ CCM Stainless Steel Accessories
- ⑤ CARLISLE® Green Roof System
- ⑥ ARBOFLEX® PU one component liquid waterproofing system for balconies
- ⑦ ARBO® Sealants and EPDM for exterior sealing and bonding.
- ⑧ SURE-MELT® monolithic and root resistant hot melt system for buried application.
- ⑨ ECOLAN® EPDM pond lining
- ⑩ Made to measure HERTALAN® Easy Cover EPDM membranes



For over five decades, CARLISLE® has been at the forefront of developing EPDM technology. Our award winning RESITRIX® is a unique hybrid EPDM waterproofing system that combines the flexibility of EPDM with the robustness of bitumen, delivering exceptional performance and durability. Our commitment to innovation and sustainability has led us to develop RESITRIX® as the ideal solution for a wide range of roofing and façade applications, both in new construction and refurbishment projects. Choose RESITRIX® for green roofs, medium sized residential and commercial roofs.

## Material Properties



**Exceptional durability:** Extremely stable molecular structure resists degradation and maintains flexibility even at  $-40^{\circ}\text{C}$ .



**High elasticity:** Stretches over 500% and returns to original shape, accommodating roof movement and preventing cracking.



**Long lifespan:** No measurable changes in weight, thickness, strength, or robustness over time, ensuring lasting performance.



**Outstanding tensile strength:** Can support a weight of up to 1,300 kg, demonstrating exceptional load-bearing capacity.



**Hybrid combination:** Blends the advantages of polymer-modified bitumen and EPDM for a high-performance, single-layer membrane.



**Easy & safe installation:** Designed for efficient and effective application without need for any naked flames.



**Ecologically Safe:** 100% non-toxic and contains no harmful chemicals or additives and hazardous additives such as heavy metals, halogens or volatile softeners.



Order  
Sample



Add to  
Specification



Watch Installation  
Video





CARLISLE® is a leading provider of pure EPDM waterproofing systems. We offer custom-made sheets with pre-fabricated vulcanized seams for roofs of any size. Our HERTALAN® systems are well known for their exceptional durability, flexibility, and easy installation. When mechanically fixed using induction welding, HERTALAN® can achieve circularity in construction, enabling it to be removed intact and re-used or recycled. Choose HERTALAN® for a reliable and sustainable waterproofing solution that will protect your building for years to come.



### Material Properties



**Durable:** Resistant to UV rays, ozone, and extreme temperatures (−45°C to +120°C).



**Flexible:** Outstanding elasticity up to 500% which accommodates roof movement.



**Long lifespan:** Proven service life of over 50 years (SKZ).



**Sustainable:** DUBOKER, Cradle2Cradle and EPD certified



**Circularity in construction:** Experience the future of mechanical fixing with CARLISLE® induction fixing system and HERTALAN® EASY COVER membranes. This innovative, non-penetrative method ensures a sustainable and circular approach to roofing.

### Installation Benefits



**Made to measure:** HERTALAN® EASY COVER can be made to measure and with vulcanised seams for quick and simple installation. Its weather-resistant properties ensure long-lasting roof protection.



**Safe installation:** HERTALAN® EASY COVER sheets can be fully adhered, mechanically fixed or ballasted.



**Easy & safe installation:** Designed for efficient and effective application without need for any naked flames.



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# SURE-WELD®



SURE-WELD® TPO is a heat-weldable thermoplastic polyolefin (TPO) single-ply roofing membrane. SURE-WELD® TPO membranes feature our unique OCTAGUARD XT™ formulation which delivers exceptional level of weathering protection. Our roofing membrane not only protect your building but also help combat urban heat island effects. With their light, reflective colors, they reduce heat absorption, keeping the building and the surrounding environment cooler. This not only saves energy but also contributes to a more sustainable future. This unique technology makes SURE-WELD TPO® a leading waterproofing solution.

## Material Properties



**Sustainability:** Environmentally friendly with recycled content, low environmental impact, and long lifespan.



**Versatility:** Suitable for various roof types and substrates, offering design flexibility.



**Solar PV compatibility:** Compatible with solar PV systems for added energy efficiency.



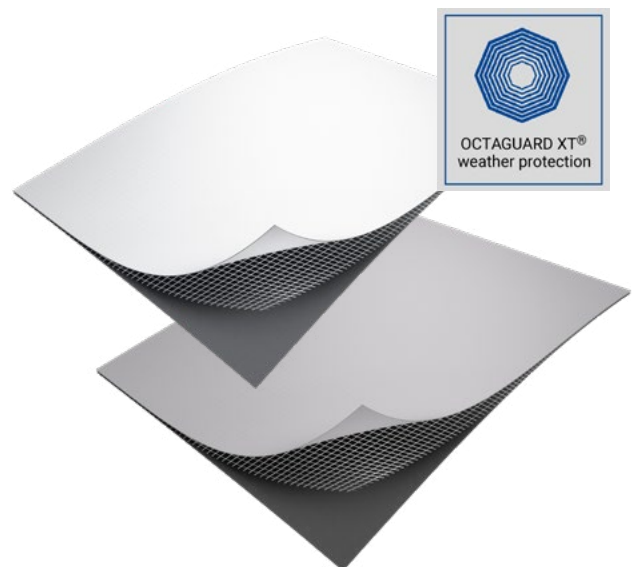
**Heat resistance:** Reflects heat, reducing cooling costs and contributing to sustainability.



**Durability:** Long-lasting protection with resistance to damage and weathering.



**Speed and ease of installation:** Quick project completion with versatile application options.



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# CARLISLE® Induction System



Experience the new dimension of mechanical fixing with the CARLISLE® induction fixing system. This innovative system uses special magnetic coated plates to secure the HERTALAN® EPDM membranes or SURE-WELD® TPO and insulation to the roof construction without having to penetrate the membrane. This unique installation method means that the HERTALAN® EPDM membrane can deliver a circular approach to sustainability.

The induction device is activated directly using the specially coated fastening plate.

Immediately after welding, a permanent connection to the membrane is created within 45 seconds due to the magnetic cooling rods applying firm pressure on previously welded fastening plates.

The mechanical fixing process is reversible, allowing for membrane to be reused if needed.



## System Properties



**No penetration of the roof membrane**



**Even distribution of wind load**



**Up to 30% fewer fixing required**

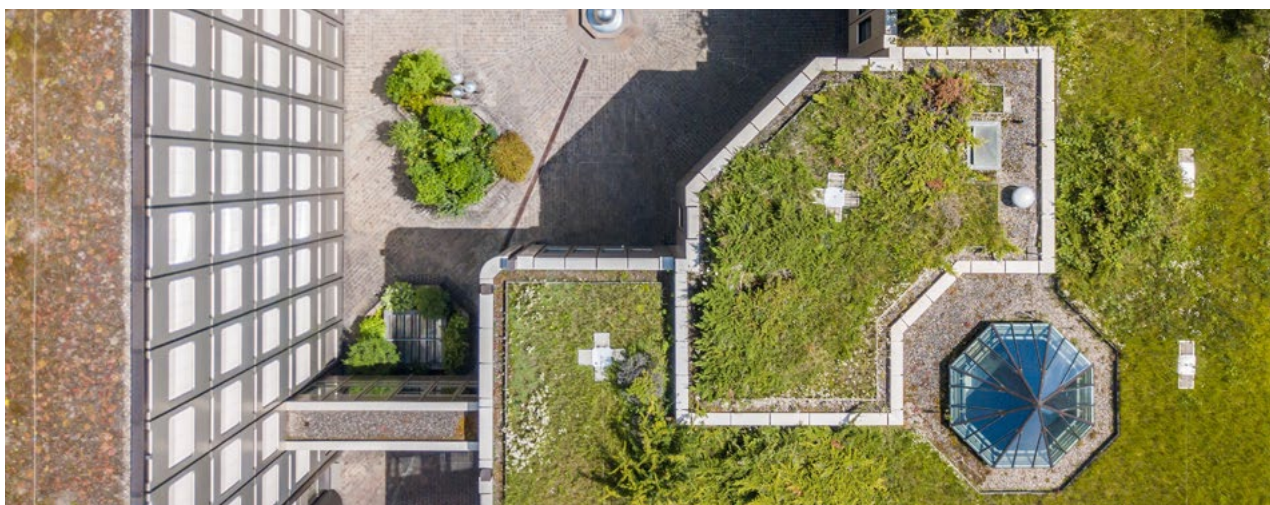


**Efficient installation**



Watch Installation  
Video





SURE-MELT® is a monolithic BBA certified hot melt system for exceptional durability with self-healing properties. Ideal for buried applications, it provides robust protection against water ingress, safeguarding your project from costly remediation. SURE-MELT® is currently only available in the UK and offers unparalleled performance, reliability, and longevity. It's the ideal choice for inverted roofs, podium decks, terraces, living roofs, car parks, and civil engineering structures. SURE-MELT®'s exceptional strength and durability eliminate the risk of future replacements, ensuring a leak-free roof for the life of your building.

### Material Properties



#### **Robust Waterproofing with Triple Protection:**

SURE-MELT® features a three-layer system to unbeatable robustness and durability.



**Weatherproof:** SURE-MELT® protects against water ingress and prevents tracking beneath the membrane.



**Fire Safety:** SURE-MELT® can enable a BroofT4 specification that is unrestricted under national building regulations, when used in protected or inverted roof specifications, including an inorganic covering.



#### **Wind Uplift Resistant:**

SURE-MELT® is fully bonded to the substrate to resist wind damage.



**Low Maintenance:** SURE-MELT® requires minimal maintenance for long-term performance. Thanks to its self healing properties, the system is robust enough to withstand point loads, abrasion and wear and tear during the construction phase.



**Monolithic Design:** SURE-MELT® eliminates vulnerable joints for seamless protection against water ingress.



**Easy Installation:** Hot melt is tried and tested waterproofing system proven to have a reduced risk of installation errors.



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Specification



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ARBOFLEX® PU is a single component liquid made from pure polyurethane which, once cured, forms a seamless elastic membrane without any joints, overlapping or any integrated mesh needs. The material properties of ARBOFLEX® PU enable it to be air tight and waterproof on a range of substrates.



## ARBOFLEX® PU Advantage:



**Seamless waterproofing:** Creates a monolithic, watertight membrane.



**Versatile application:** Suitable for various roof configurations, including green roofs and terraces.



**Rapid installation:** Improves project efficiency and reduces labor costs.



**Durability:** Offers long-term performance and resistance to weathering.



**Sustainability:** Contributes to green building initiatives through its use in green roof systems.



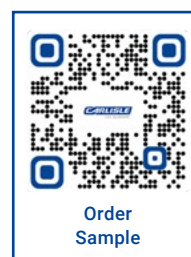
**Quality assurance:** Supported by advanced testing methods and manufacturer expertise.



**Technical support:** Comprehensive support from Carlisle Construction Materials.



**Cost-effective:** Efficient supply chain and early procurement for cost control.



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Video



ALUTRIX® 600 and ALUTRIX® FR vapour barrier membranes are quick to install, self-adhesive and extremely resistant to moisture vapour. The membrane consists of reinforced aluminium with a self-adhesive backing and detachable release film. Both vapour barriers are particularly suitable for use on profiled steel sheets.

## Material Properties



**Cold self-adhesive**



**Impervious to vapour**



**Can be walked on and are puncture-resistant**



**Resistant to a range of chemicals**



**Can be bonded from just +5°C**



**Complies with the requirements for Class 0**



**In addition to the vapour barrier's function, they also form an airtight layer in line with Energy Saving Regulations.**



**Order  
Sample**



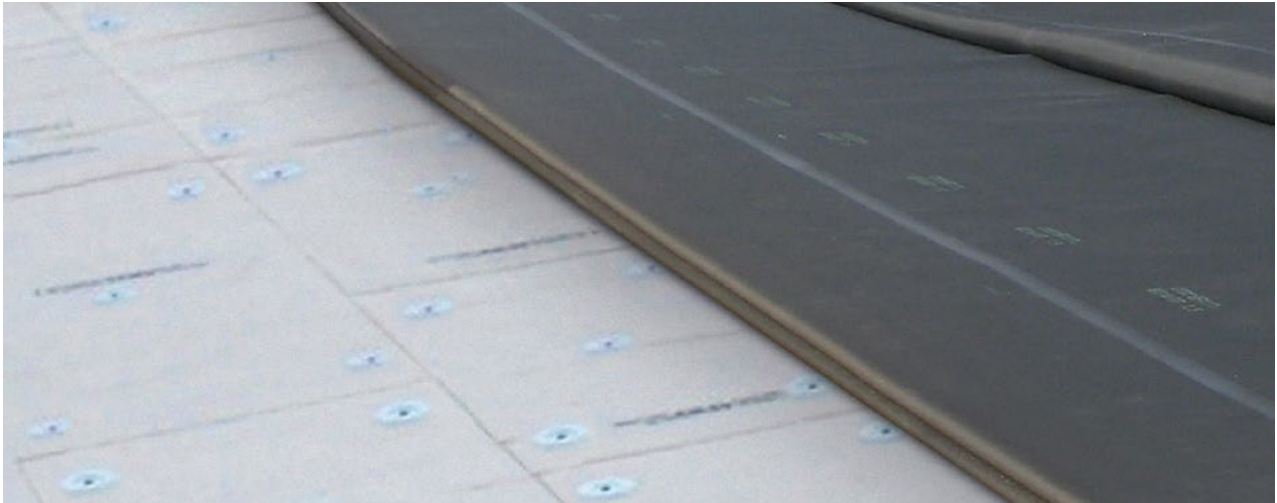
**Add to  
Specification**



**Watch Installation  
Video**



# CARLISLE® Thermal Insulation



Transform your flat roof into an energy-efficient and watertight space. Our insulation options for EPDM, TPO and liquid waterproofing systems deliver exceptional thermal performance and energy efficiency. Whether it's a warm or inverted roof, we have the perfect insulation solution to enhance your building's performance and sustainability.



**Building Regulations** mandate minimum insulation levels for flat roofs, which are continually increasing to support government goals of reducing carbon emissions.

**We offer insulation options** tailored to your project's specific needs and budget. Our technical or project sales team can help you select the ideal solution to enhance your roof's energy efficiency and longevity.

## Fire Performance of Insulation

A roof's fire resistance depends on the combustibility profile of all the component materials that form part of the roof build-up. Regulatory changes with the introduction of the Building Safety Act 2022 (BSA) have prompted new questions about the compliance of certain roofing materials and their credentials in relation to fire.

At CARLISLE®, building safety is important to us and we are committed to supporting specifiers with compliant systems, clear information and reliable technical support. As a building products manufacturer, we know that roof build-ups can – and often are – comprised entirely of component materials that are combustible, while still achieving B<sub>ROOF</sub> (t4); the highest fire performance rating as defined by Approved Document B.

According to Approved Document B, individual components of a flat roof build-up need only be certified as non-combustible if:

- The roof area is classified as a 'specified attachment'
- The roof area is built over the top of a compartment wall – here the 1500 mm roof area either side of a compartment wall should be non-combustible

There are exceptions to both of these stipulations and it's important to understand your obligations when it comes to specifying the roof build-up, along with the wider performance properties of the systems you are selecting. At CARLISLE®, our technical experts can help you navigate the compliance requirements of your project, helping you strike the right balance between the thermal and waterproofing performance of your roof build-up, fire safety, and service life. Talk to our technical team to find out more about our full range of insulation, VCL and waterproofing systems.

## Acoustics Solutions

Effective acoustic insulation is crucial in creating comfortable and safe environments, both residential and commercial. Noise pollution, a significant health concern according to the World Health Organization, can be mitigated through proper building insulation.

# CARLISLE® Thermal Insulation

Aircraft and Rain noise is often the primary concern for designers, especially in schools and hospitals, due to specific noise level targets. Insulation helps block outside noise and various factors must be considered, including the type of deck construction, waterproofing system, and whether green roofs or solar panels are incorporated. Our technical team can assist in finding the right solution for you.



## 1. INVERTED FLAT ROOFS

Thermal insulation in inverted flat roofs is typically placed above the waterproof membrane, providing a protective layer against the elements and improving the roof's overall performance. This configuration offers several advantages, such as the structural deck and support structure remain at a temperature similar to the interior, eliminating the need for a vapor control layer. In addition, the insulation layer shields the waterproof membrane from UV rays, temperature fluctuations, and mechanical stress.



### 1.a CARLISLE® Inverted Board:

CARLISLE® Inverted Board is a premium XPS insulation solution designed for various applications. Our Inverted Board range offers high-performance, rigid, closed-cell XPS insulation, ideal for residential, commercial, and industrial buildings.

CARLISLE® Inverted Board is renowned for its moisture resistance and exceptional compressive strength. These qualities make it the perfect choice for inverted flat roofs, below concrete floor slabs, and on the exterior of basement structures. With CARLISLE® Inverted Board, you can trust in the durability and performance of our XPS insulation solutions.

## 2. WARM ROOF

Warm roof systems feature a primary thermal insulation layer positioned above the structural deck. This build up ensures that the structural elements remain at a comfortable interior temperature, providing a barrier against heat transfer and protecting the underlying layers from the elements.

For flat roofs, insulation often consists of rigid boards placed directly on the deck. To prevent moisture vapor from entering the insulation, a vapor control layer is typically installed beneath the insulation. This layer acts as a barrier against moisture migration due to thermal pressure from the building's interior. The waterproofing membrane is then placed over the insulation, completely encapsulating it.

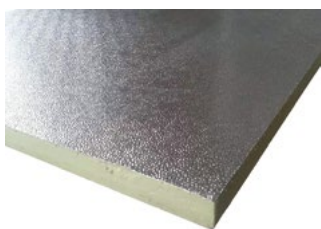
Our Range :

**2.a CARLISLE® Thermal Insulation-T** is a tissue-faced insulation board engineered to complement our waterproofing membranes on a warm roof configuration. Ideal for both new construction and renovation projects, this high-performance insulation delivers exceptional thermal efficiency.

Our PIR insulation board boasts exceptional compressive strength and dimensional stability, ensuring a smooth, even surface for optimal waterproofing performance. Additionally, it's compatible with a wide range of adhesives, primers and mechanical fastening systems.







**2.b CARLISLE® Thermal Insulation-F** is a premium foil-faced insulation board engineered specifically for use with CARLISLE®'s single-ply membranes and is Ideal for both new construction and renovation projects, this high-performance rigid PIR foam board is designed for warm flat roof applications under our mechanically fixed single-ply membrane systems.

With an exceptional dimensional stability, CARLISLE® Thermal Insulation-F offers superior compressive strength, exceeding 150 kPa at yield. This makes it suitable for supporting pedestrian traffic on roofing systems, ensuring long-lasting performance and durability.

**2.c CARLISLE® VIP-E** offers unmatched thermal performance, with a core lambda value of 0.006 – the industry's best. This exceptional insulation solution is ideal for both new builds and renovations, allowing you to achieve maximum energy efficiency while preserving your existing roof structure and minimizing costly modifications.

#### **2.d StoneWool Insulation**

is a high-density, non-combustible thermal insulation board specifically designed for warm flat roofs. It has been tested and proven to excel in both acoustic performance and fire resistance. By incorporating StoneWool Insulation into flat roof systems, you can significantly improve the building's ability to control noise ingress and egress, enhancing the overall comfort and acoustic environment.

Suitable for areas with pedestrian traffic and frequent maintenance, these boards are compatible with a wide range of roofing systems including SURE-MELT® bituminous waterproofing system, RESITRIX® and HERTALAN® EPDMs, SURE-WELD® TPO and ARBOFLEX® PU liquid waterproofing.



**3. CARLISLE® Tapered Insulation** offers a streamlined and efficient alternative to traditional on-site methods like screed-to-falls and timber firing pieces. Our innovative system can be tailored to meet the unique requirements of even the most complex projects, significantly reducing installation time and costs.

Beyond surface water drainage, CARLISLE® Tapered Insulation is designed to deliver exceptional thermal performance, helping to optimize your building's energy efficiency. Our expert Technical Team can provide guidance on substrate build-up, upstand limitations, and the most suitable drainage method to ensure optimal results.

#### **3.a Creating falls on a roof**

**Building Regulations Part H** mandates that adequate drainage systems are in place to effectively remove rainwater from roofs. As outlined in **BS 6229** and **BS 8217**, flat roofs should be designed with a minimum fall of 1:40 to ensure a finished fall of 1:80. This slope is essential for proper water runoff, accounting for potential construction variations. These requirements apply to both general roof areas and internal gutters.

# CARLISLE® Green Roof Systems



Green roofs involve the installation of vegetation on a waterproofing layer, providing a range of benefits such as improved insulation, rainwater management and good air quality. Green roof design depends on vegetation type and water balance. The goal is to mimic natural conditions in a shallower system. Substrate depth and drainage layers are tailored to meet the specific water needs of the plants. At CARLISLE® we can advise the right solution for you.

## Modular

CARLISLE® modular green roof system offers a hassle-free solution for creating sustainable, eco-friendly spaces. Pre-formed modules simply click together, allowing for a fast installation. Each recyclable polypropylene tray is designed with built-in features for optimal plant growth. Each module comprises of a filtration layer, growing substrate and a choice of vegetation.

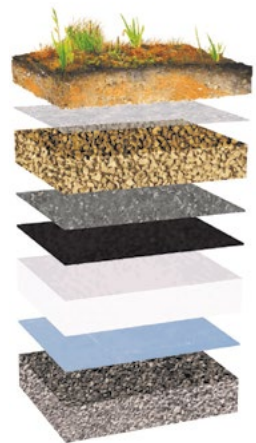


### Key Features

- Quick and easy installation with clickable modules for effortless assembly.
- Recyclable polypropylene trays for an eco-friendly solution.
- Filtration layer, growing substrate, and your choice of vegetation.
- Suitable for both residential and commercial projects or varied sizes.
- Optional feature with an integrated irrigation system to ensure plant health.

## Extensive

CARLISLE® extensive green roofs are lightweight, featuring shallow soil depths. They support low-maintenance vegetation like mosses, sedums, and grasses, making them ideal for buildings with limited load-bearing capacity and require minimal maintenance.



### Key Features

- Comprises four layers: drainage, filter, substrate & sedum/wild flower mat.
- Pre-grown vegetation for instant green with low maintenance, delivered in palletised form.
- Shallow build-up depth, low organic content substrate and no irrigation required.
- Variety of species, seasonal colour variation and attracts pollinators.
- Can be installed on slopes up to 30 degrees with blankets.
- No Irrigation required.
- Designed for maintenance traffic and no public access.



## Intensive

CARLISLE® intensive green roofs resemble traditional gardens, featuring deeper soil layers that can reach up to several feet. This allows a diverse range of plants, including shrubs and trees. While they require robust structural support and ongoing maintenance, they provide significant aesthetic and recreational benefits.

### Key Features

- Comprises four layers: drainage, filter, substrate & landscaping options.
- Deep build-up depth, higher organic substrate, and irrigation system.
- Variety of species, seasonal colour variation and diverse vegetation including shrubs, trees and lawn.
- Ideal for creating green spaces for relaxation and leisure.
- Irrigation system will be required and recommended.

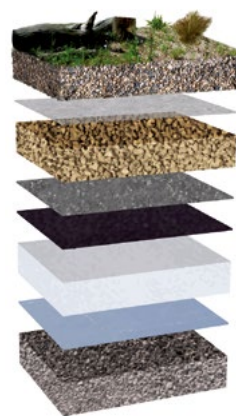


## Bio Diverse / Semi Intensive

CARLISLE® bio diverse combine elements of both extensive and intensive green roofs, with moderate soil depths and a mix of plant types. They provide a balance between weight, maintenance, and biodiversity.

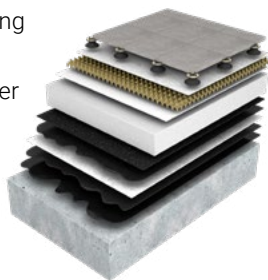
### Key Features

- Comprises four layers: drainage, filter, substrate & natural plantation.
- Pre-grown vegetation for instant green, delivered in palletised form.
- Moderate build-up depth and natural plant choices.
- Depends on the plant life and the time of the year irrigation may be required.
- Mix of plant types to create a natural habitat, bio diversity and enhance surroundings.



## Blue Roofs: Sustainable Water Management

A blue roof is a versatile and sustainable solution for managing rainwater. It effectively controls and slows the flow of stormwater to prevent overwhelming of the drains, reducing the risk of flooding and improving water quality.



Whether you're aiming for a green roof, a solar-powered roof or a traditional design, blue roofs can be customized to suit your needs. They help meet strict environmental regulations and contribute to a more resilient and sustainable urban environment.



# CARLISLE® ACADEMY

As Europe's leading waterproofing systems and solutions provider we provide industry leading product training at the CARLISLE® ACADEMY. Our product trainings are delivered by the professionals for the professionals.

At the CARLISLE® ACADEMY, our team of expert trainers share their technical knowledge, industry standards and best practices in installation and cost-effective practices. Our training also covers the legal and UK regulations to help plan your projects.

We offer Level 1 and Level 2 courses based on professional capabilities and skills. Additionally, we provide CPDs for architects, specifiers, and designers. You can explore our CPDs by scanning the QR code or visiting [www.ccm-europe.com/gb/academy/cpd-page](http://www.ccm-europe.com/gb/academy/cpd-page)



## **CARLISLE® ACADEMY**





# Our services

## Advice and planning

- Individual consultancy appointments
- Technical advice for new builds and renovations
- Tender documents
- Drafting of specifications
- CAD drawings for individual connecting areas or roof superstructures

## Calculations

- Wind-uplift calculations
- Drainage calculations
- Cost estimates
- U Value calculations

## On-site service

- Roof condition survey with report
- Regular site inspections
- Roof completion report
- Heat loss detection imagery

## Delivery

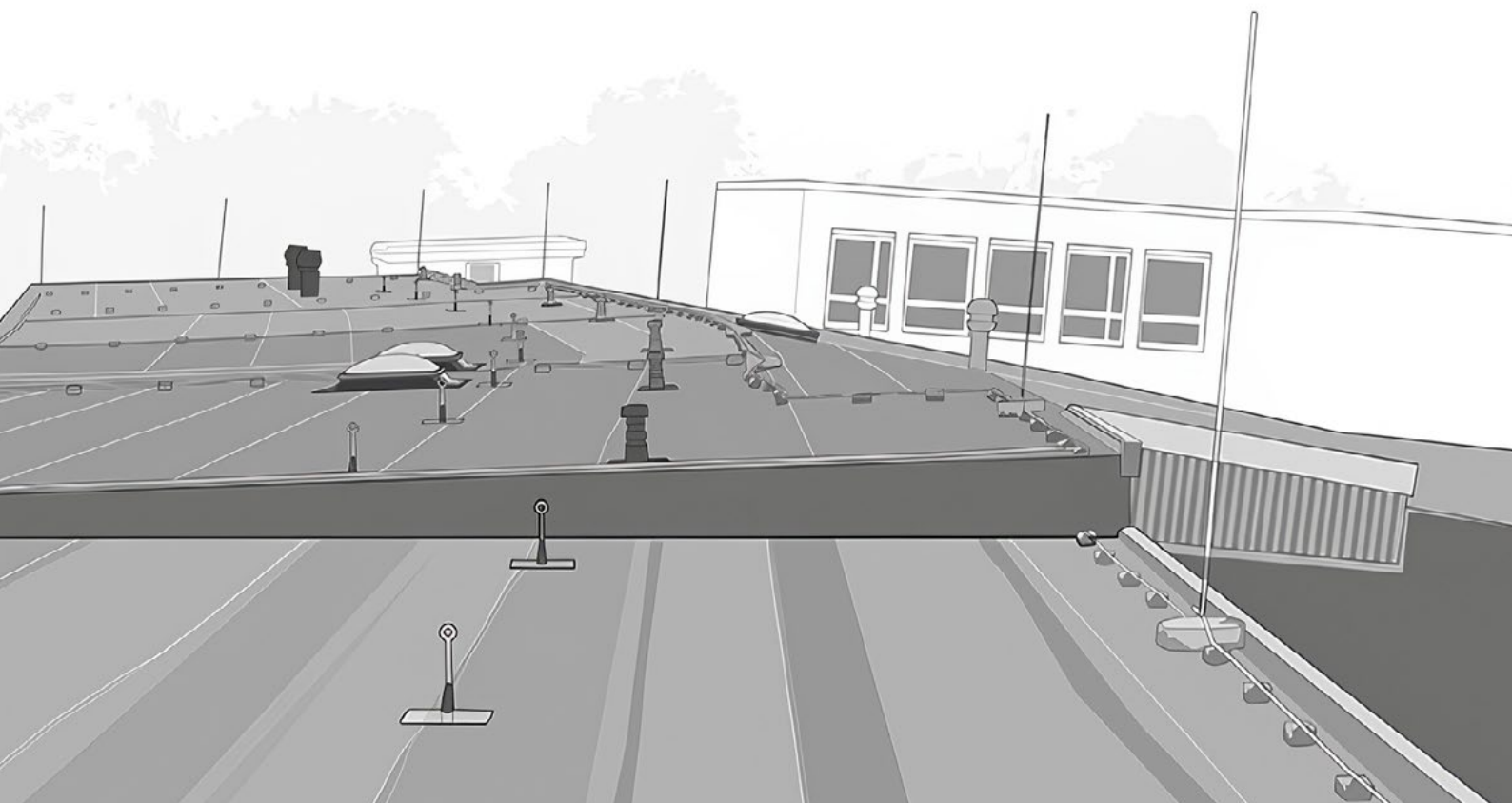
- Delivery to the location of your choice, even direct to the construction site
- Provision of unloading facilities on demand
- Free delivery may apply on certain orders, subject to Terms and Conditions
- On-time deliveries at fixed times are possible on request

## Safety

- Production certified ISO 9001 and ISO 14001
- Comprehensive certification and test records
- Extended tests carried out on our in-house test laboratories

## Guarantee

A range of market leading guarantee options available. Duration is dependent on the choice of system.



# Regional roots, global network

The CARLISLE® CM Europe Group brings together decades of experience of European rubber producers under one roof. It is part of the listed US group CARLISLE® Companies Incorporated and can look back on many years of tradition.

As an established specialist in high-quality technical elastomer products for flat roofs, façades and the waterproofing of buildings, we are always looking ahead. With our dynamic workforce, we do what we can every day to inspire our customers – with the best products, the best advice and the best training.

We give our customers the knowledge they need to carry out their projects properly and thus successfully. Only a manufacturer understands its current products and the ways they can be used in the future.

For years, we have intensively trained craftsmen so that they can achieve the very best build quality. We have significantly expanded our training capability in our CARLISLE® ACADEMY and we can offer tailor-made training to installers, retailers, architects and planners. Success starts in the CARLISLE® ACADEMY.





## Locations

### Europe

- 1 | Hamburg | Germany**  
(European Head Office and Production)
- 2 | Waltershausen | Germany**  
(Production)
- 3 | Kaufbeuren | Germany**  
(CARLISLE® Services)

- 4 | Weesp | The Netherlands**  
(Production)
- 5 | Kampen | The Netherlands**  
(Production and Administration)
- 6 | Mansfield | Great Britain**  
(Production and Administration)
- 7 | Belper | Great Britain**  
(Production and Administration)
- 8 | Baia Mare | Romania**  
(Production)

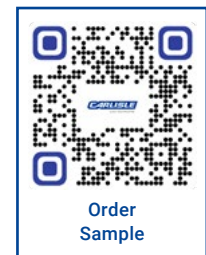
### America

- 9 | Scottsdale | USA**  
(Headquarters of CARLISLE® Companies Inc.)
- 10 | Carlisle | USA**  
(Headquarters of CARLISLE® Construction Materials)



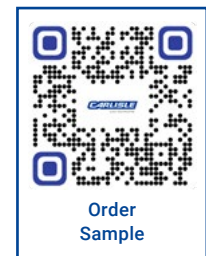
# Case Studies

THE MACALLAN DISTILLERY | RESITRIX®



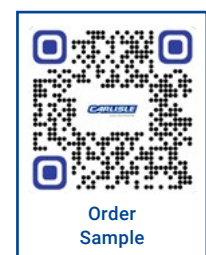
Order  
Sample

FASIONING POPLAR | HERTALAN®



Order  
Sample

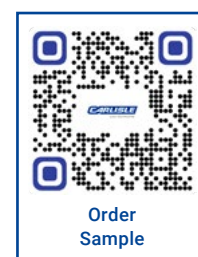
NEPTUNE WHARF RESIDENTIAL DEVELOPMENT | ARBOFLEX®



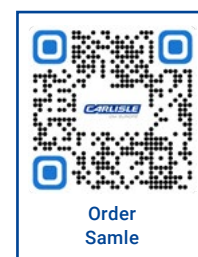
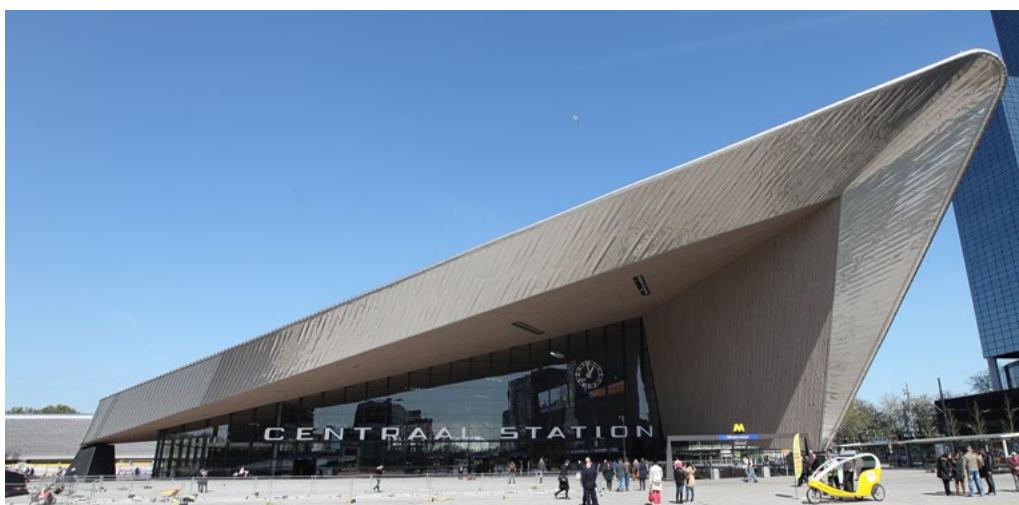
Order  
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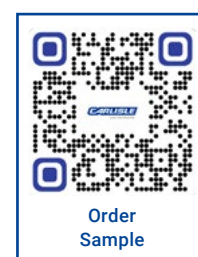
EARTH TRUST | RESITRIX®



ROTTERDAM TRAIN STATION | HERTALAN®

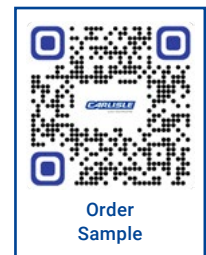


LIBRARY TECHNICAL UNIVERSITY DELFT | RESITRIX®

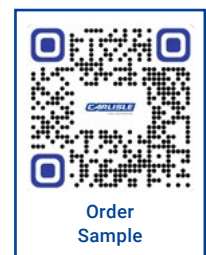


# Case Studies

FLOATING HOMES | RESITRIX®



NORTH WITCH POINT | RESITRIX®

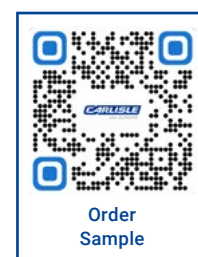


SPENCER THEATRE, USA | SURE-WELD®

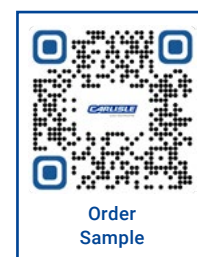




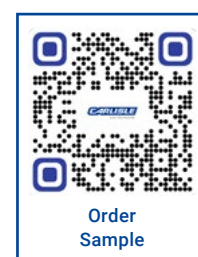
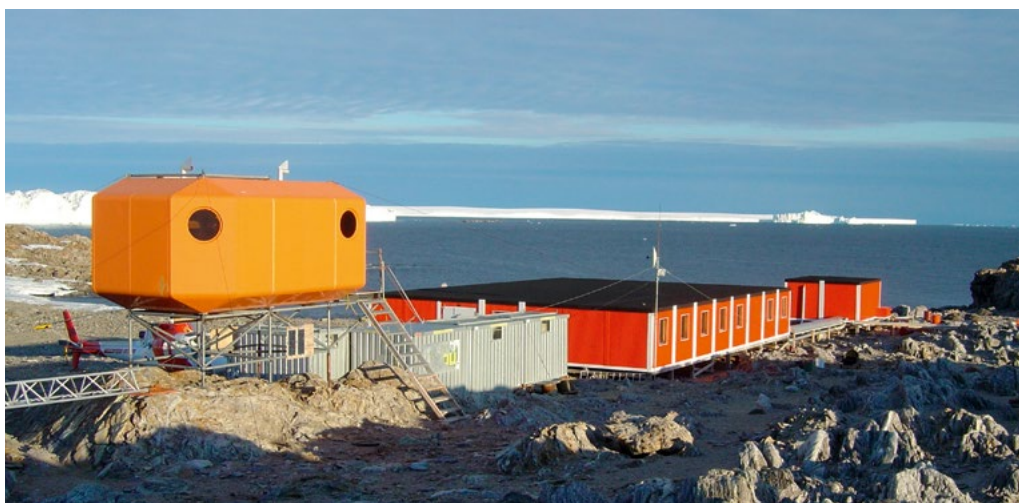
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