

ACO Patented Blue Roof Attenuation System

The ultimate SuDS system- on a roof

Blue, green and blue green roofs have an increasingly important role to play in the creation of the sustainable urban environments which society needs and demands.

The Patented ACO Blue Green Roof System complies with building standards and regulations by ensuring the flat roof can drain quickly in extreme events and slowly in normal use.

In contrast to conventional blue roof design, the ACO patented solution minimises risk by use of a separate overflow system layer, elevating and supporting the main attenuation tank above the roof waterproofing layer ensuring it is not exposed to unnecessary hydraulic stress. This allows both storm eventualities and systems to be engineered to known standards and best practice.

Applications

- Commercial & Industrial
- Residential
- Roof & Terrace
- Education & Leisure



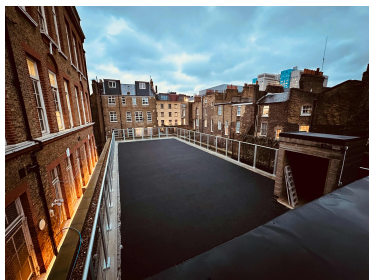
ACO RoofBloxx create a sustainable blue green roof drainage system

Benefits

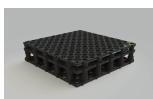
- Flood control
- Urban heat island mitigation
- Amenity space
- Passive rainwater harvesting
- Energy efficiency through improved insulation
- Meet local planning conditions to manage run-off

Blue Roof Products and Accessories

The ACO blue roof system can be used with a variety of roof constructions and finishes to suit the application

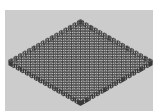


The ACO system can work with both new build and retrofit projects



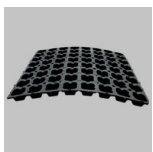
ACO RoofBloxx

ACO RoofBloxx is a shallow, high-strength, adjustable geocellular storage void and roof outlet flow control system. ACO RoofBloxx is fully compatible with ACO roof outlets, downpipes and surface water drainage systems. It can be used in different roof types e.g. as part of a warm roof construction. When combined with the ACO Blue Roof Flow Restrictor, ACO RoofBloxx units can store rainwater at source to control surface water run-off. The system can also permanently store a percentage of the captured water for use in passive irrigation-systems e.g. as part of a sedum roof.



ACO RoofBloxx Cell

ACO RoofBloxx cell is a lightweight, high-strength sub-surface drainage sheet that is used as an under-drain layer in the ACO Patented Blue Roof system providing support for the RoofBloxx attenuation tank. It provides heat and sound insulation whilst also acting as a waterproofing membrane protection layer. ACO RoofBloxx Cell eliminates the need for the use of heavy gravel aggregates for sub-surface drainage and screeds for waterproofing membrane protection in planter boxes and intensive roof gardens.



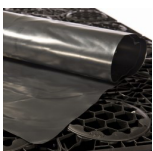
ACO RoofBloxx Reservoir Tray

The ACO RoofBloxx Reservoir Tray are an option for customers seeking a green roof reservoir for irrigation of planting above the blue roof storage layer. Benefiting from optimum design flexibility, it can be easily cut to fit different shapes. ACO RoofBloxx Reservoir Trays are also easy-to-interlock, facilitating the connection of adjacent trays and enhancing system stability. ACO capillary wicks are also available to draw water to the vegetation level where height is at a premium and reservoir trays are not an option.



ACOTex Plus protection fleece and infiltration geotextile

The ACOTex Plus protection fleece is used underneath the ACO RoofBloxx system to provide additional protection to the ACOWrap geomembrane. ACOTex infiltration geotextile is used on top of the ACO RoofBloxx system to act as a separation filtration layer between the ACO RoofBloxx and a green roof substrate or landscaping.



ACOWrap geomembrane

ACOWrap is recommended for applications where rainwater attenuation on the roof is specified. Where passive irrigation and rainwater harvesting is required, then a welded geomembrane should be used.



ACO Blue Roof Restrictor and Overflow

The ACO Blue Roof Flow Restrictor and Overflow offer a means of controlling the rate of rainwater run-off from a blue or green roof without overloading the roof structure. The restrictor and overflow have been primarily designed for use with the ACO range of HP vertical spigot and screw, 45- and 90-degree roof outlets and accessories, however other types and make of roof outlet can be accommodated



ACO Diffuser Unit

The ACO Blue Roof Diffuser and Access Unit is a modular stackable frame and riser system that is designed to be used with the ACO RoofBloxx range for blue green roofs and podium decks. It can be used as an access unit as well as an inlet diffuser with combined shallow silt trap. Available with an 85mm base frame and 165mm raising pieces the unit can accommodate 68-150mm diameter pipe connections.



ACO FreeDeck

FreeDeck is an advanced roof and balcony drainage system. It combines line drainage with point drainage by using an open-sided drainage channel to collect and convey rainwater to drainage points with a raised or suspended deck structure. The system intercepts water from surface run-off, percolation within the deck and from rainwater outlets. It is suitable for use in all types of terrace and flat roof constructions requiring level access drainage.

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