



Case study

Blue Roof – Future-Proofing Urban City Centres with Sundolitt XPS

Product XPS 300 SL

Application Blue Roof - 6000m²

Sundolitt XPS is the insulation chosen for the innovative Blue Roof application for Cavendish House, a contemporary office building within the Phase 1 development of Sheffield's Retail Quarter. The building was designed by Leonard Design Architects to create a strong, positive architectural statement within the city.

The building design needed to consider water management as a major factor in this urban environment. Opting for the innovative XPS insulated Blue Roof system enables the control of water flow and alleviates pressure on the existing drainage system. The building has a positive environmental impact through the use of this Sustainable Drainage System (SUDS).

The Blue Roof system utilises the entire roof area as water storage during heavy rainfall and controls the flow of water into the underground drainage system.

Sundolitt XPS is the ideal insulation for this type of roof as it maintains thermal performance and will not degrade even when submerged.

Leonard Design Architects stated "We worked closely with Sundolitt to ensure the insulation material specified would continue to perform as part of a roofing system and as an integral part of the overall water management requirements of the building."

Bryan Mawer of Sundolitt was proud to be a part of the project stating "Our XPS was also used as insulation for the Green Roof built onto a kiosk adjacent to Cavendish Building. Maintaining the insulation performance to reduce carbon emissions is a major benefit of using our XPS insulation in these sustainable roof systems."



XPS Benefits

-  **Load Bearing**
-  **Lightweight**
-  **Water Resistant**
-  **Resistant to freeze/thaw**
-  **ODP = 0 GWP = <5**
-  **Versatile**
-  **Fully Recyclable**

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