



Case Study

Void Former – Chester Business Quarter

Product Structural Fill EPS
Application Lightweight Fill Below Hard Landscaping - 500m²

The former leadworks area in Chester is now a hive of activity. With a hotel, new townhouses, apartments and retail units the area is undergoing an exciting regeneration.

As a major development on a heritage site the key target was to minimise the carbon footprint and environmental impact of the project in all its phases.

Sundolitt have supplied Structural Fill Expanded Polystyrene (EPS) blocks as a void former below the hard landscaping outside the new Waitrose store.

Designing with EPS as a lightweight fill reduces the carbon footprint by reducing the amount of concrete required.

There are reductions in transport emissions with large volumes of lightweight EPS transported leading to fewer deliveries. Emissions from site machinery is also reduced, with no requirement for heavy lifting equipment as the blocks of EPS are well within safe manual handling limits.

The Structural Fill EPS Blocks were used to create a level platform for the new paved areas. Level access was required to all areas of the development including a footbridge that links the Shot Tower development to the Business Quarter.

EPS is very lightweight, around 1% that of traditional fill materials yet with high strengths capable of withstanding vehicle traffic.

The lightweight nature of EPS reduces long term settlement when used to make up levels on uneven and unstable ground. Providing a long term solution as well as low environmental impact.



A Business Built on Air

EPS Benefits

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

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