

Case study

EPS and XPS in Biomass Plant

Product XPS 300 and EPS 100

Application Ground and Wall Insulation - 400m² and 800m²

This biomass plant built in Annan, Dumfriesshire has been designed to utilise the waste from arable crops and grass from the farm to produce biomethane.

Biomass or Anaerobic Digestion plants produce heat and energy from a natural process through which bacteria breaks down organic matter creating bio-methane. The process requires organic material to be maintained at a temperature where the bacteria will “work”.

Insulating the structure maintains the temperature of the organic material creating a faster process for gas production. To ensure optimum efficiency Sundolitt supplied high performance insulation for the walls and base.

The inherent characteristics of Expanded Polystyrene (EPS) and Extruded Polystyrene (XPS) are perfect for this application.

XPS was used below the base of the plant due to its high compressive strength, vital for this project to withstand the weight of

the tank and its contents. EPS was used on the external walls due to its high thermal efficiency.

Bryan Mawer, Sales Manager, Sundolitt explains, “Anaerobic digesters utilise both EPS and XPS insulation, and as a manufacturer that can provide both on the same vehicle, we can deliver value for the client with every load. This application really showcases these site-tough insulants, focussing on the exceptional compressive strength of XPS and the outstanding thermal performance of EPS.”

The plant will be connected directly into the main gas grid providing heat and energy for many homes.



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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