

Terrain drainage solutions chosen for £335m Liverpool Hospital

Terrain drainage solutions have been specified throughout the Liverpool Royal University Hospital.

Polypipe Building Services drainage plastic products ensured long-term system integrity



Terrain PVC Vent and Waste Pipes, Terrain FUZE, and Terrain Dilution Traps have been installed in some of the most critical areas of The Royal Liverpool University Hospital, including above surgery theatres, and in the Accident and Emergency Department.

The Royal Liverpool University Hospital is the largest single-bed hospital in the country, offering 646 beds including a 40-bed critical care unit, together with 18 operating theatres and one of the largest emergency departments in the North West. The hospital houses an abundance of expensive equipment and lifesaving machinery, meaning that it was of paramount importance that the drainage systems delivered were robust and reliable, to guarantee long-term system integrity and prevent leakages that could lead to costly damage.

Initially, an order of Terrain PVC soil & waste was placed to provide secondary stack ventilation throughout the hospital.

Following this successful installation, Terrain FUZE was selected as an alternative to the cast iron system originally specified for some of the most critical areas of the building. With patients in theatre and A&E highly vulnerable to infection, it was crucial that the drainage systems in these areas could be trusted not to leak and cause damage and disruption. Using electro-fusion jointing, Terrain FUZE ensures system integrity, as the weld area is as strong as the host area. Polypipe worked with main contractor Carillion to provide an alternative to the system and dilution traps, which were originally specified for the Science and Research Building.

CASE STUDY

Project

The Royal Liverpool University Hospital

Client

Carillion

Application

Drainage

Product

Terrain FUZE
Terrain PVC Vent and Waste Pipes,
Terrain Dilution Traps



Ian Crickmore, Technical Director at Polypipe Building Services, said:

“The installation at The Royal Liverpool University Hospital was an incredibly sensitive job, as the drainage systems surrounded life-saving machinery. We were able to provide the hospital with a technical support service and ultimately supply a cost-effective and environmentally friendly drainage system that they could trust.”

Terrain FUZE and Terrain PVC Dilution Traps were used to allow for quick and easy installation, while providing a reliable system to dilute any chemical waste water, before reintroducing it into the public waste water drainage network.

Polypipe supplied a robust and reliable long-term drainage solution for some of the hospital’s most critical areas.

While providing reliable, long-term solutions was the key consideration for both Carillion and the hospital, the sustainability of the project was also of great importance. Polypipe Building Services is BES 6001 accredited, demonstrating its commitment to producing materials that are environmentally considerate. Polypipe was able to demonstrate that its research into PVC and plastic materials has resulted in improved manufacturing processes and products, and a reduction in its environmental impact.

Polypipe’s products and systems are backed by a comprehensive technical support service, offering a single source which specifiers can use to meet all of their commercial drainage and water management requirements. Polypipe’s complete range of solutions, combined with the expertise of its team, meant that The Royal Liverpool University Hospital was supplied with the most trusted, cost effective and environmentally friendly drainage solution available.

“Polypipe was initially only supplied for a few sections of the hospital drainage system. After a quick installation using electro-fusion jointing, Terrain FUZE was selected as a modern replacement to the cast iron system originally specified. We enjoy working with Polypipe on projects like this, and hope to continue working with them in the future.”

Simon Webb, Managing Director of the project, Carillion.

