

Bespoke drainage solutions solve back to front tower block layout for installation team.



In total 62 Terrain FUZE drainage stacks were used in this building.

Ryan Callister, project supervisor for subcontractors Legionella & Fire Safe Services explains:

"Peel House is one of six blocks, but in this building in terms of the layout everything was swapped over which meant the services and the stacks were in different locations.

"In this tower block it meant our installers were working in extremely tight spaces by the front door and in the kitchen, often with residents there, trying to break up floor slabs and navigate their way around existing systems in place.

"We discovered the layout at the back half of this building was completely different from the other five buildings, and as a result we approached the Polypipe Building Services Advantage Team for a bespoke solution."



Constructed in 1967 Peel House is a 15-storey tower block owned by Tamworth Borough Council. Named after former MP for Tamworth and Prime Minister Sir Robert Peel, the cast iron drainage pipes in-situ were showing signs of failure resulting in new flooring being damaged by resonating damp meaning urgent replacement was needed to prevent further damage to the flats.

But the layout of the building meant that subcontractors Legionella and Fire Safe Services faced a difficult task in making sure the right drainage stacks could be installed efficiently.

CASE STUDY

Project

Peel House, Tamworth.

Client

Tamworth Borough Council.

Application

Live Stack Replacement.

Products

Terrain FUZE.



Differing layouts

The full extent of the damage being caused by the drainage system leaks did not become apparent until the walls containing the soil stacks were opened up. While it's not uncommon for original drawings not to be available for older buildings like Peel House, this project was further complicated because the layout was entirely different to the others where Legionella and Fire Safe Services had already carried out stack replacement.

Seamless connections

With Peel presenting the installation team with a reverse layout the Advantage Team at Polypipe made several site visits in order to create new drainage system drawings to ensure all the new pipework would be a perfect fit and as simple as possible to put together.

The replacement HDPE stacks were manufactured with a midpoint break 1.5 metres along to enable the installation team to twist the stack if needed to line up all the connections perfectly, while also making it easier for them to install the new stack within a small space. In total 360 Terrain FUZE stacks were used within all six of the tower blocks.

Polypipe Building Services Project Manager Deane Pearse explains:

"In the case of all these buildings there was a lot of neglect of the pipework which meant they were extremely 'furred up' due to things sticking to the inside of the stack over the years.

"Eventually this causes pressure to build up within the pipework which leads to cracks and leaks leaving residents with bad smells and water damage to their homes."

Ryan added:

"FUZE HDPE is far lighter and quicker for us to install than traditional cast pipework, which meant our installation team were able to work faster on two floors at a time causing minimum disruption to residents and their access to services."