

Basement Vault Waterproofing Pillar & Lucy House Gloucester Quays

Case Study No: 111

- Full Design & Installation
- Type C (Drained) Protection
- Long Term Guarantee

Client: Main Contractor

Completed: 2009



The Project:

A £400m development of the Gloucester Quays area including the refurbishment of Pillar & Lucy House, an 1834 brick built warehouse.



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Pillar & Lucy House - The Problem

Pillar & Lucy House, set within Gloucester Quays was part of a huge £400m development scheme, thought to be one of the largest in the Gloucester area. Gloucester Quays inhabits 25 hectares of industrial land on the canal corridor.

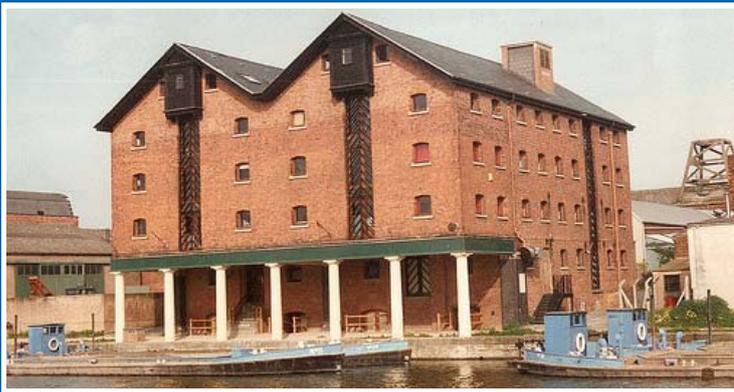
Pillar & Lucy House, a brick built grade II listed warehouse dating back to 1834 and was used by J&C Sturge, the largest corn merchants of the day as storage for imported corn until the 1880's. It has since been owned by a number of commercial entities throughout the 20th century.

The canal side vaulted basements were to be used as commercial premises and therefore required specialist waterproofing to ensure a Grade 3 (Habitable) Environment. Protectahome were approached as reputable and experienced specialists to provide a robust and bespoke waterproofing solution.



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Pillar & Lucy House - The Solution

Following instruction from the client to design and install a waterproofing system that would meet the site specific requirements and grade II listing, Protectahome's CSSW qualified surveyor specified a Type C (Drained) Protection solution.

8mm and 20mm cavity drain membranes were installed to the wall and floor surfaces within the basement. The membranes were linked to a perimeter drainage channel installed at the wall/floor junction designed to safely divert any captured free water to a safe point of disposal.

The safe point of disposal came in the form of 8 No. sump chambers - 2 in each of the 4 adjoining vaults that make up the entire basement footprint.

Each sump chamber was fitted with dual automatic sump pumps supported by a battery back up & state of the art panel control unit. The panel control unit allowed for detailed monitoring of the pumps, burst testing and also incorporated a high water level alarm equipped with a speech and text dialler.

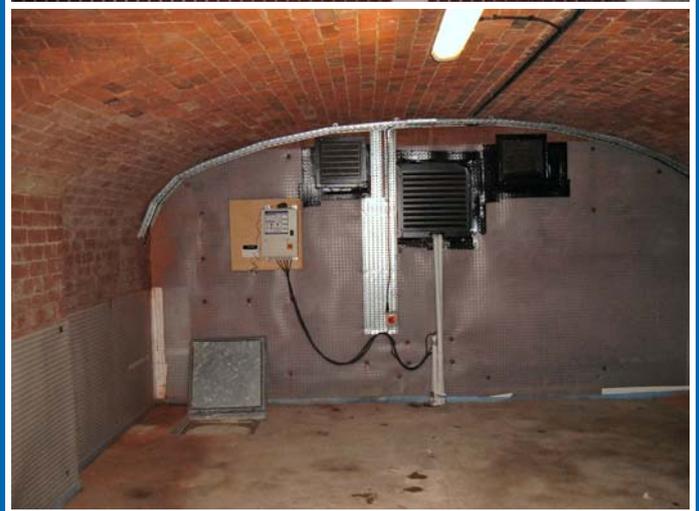
The installed system is fully serviceable and conforms to BS8102:2009 Code of Practice for the protection of below ground structures against water from the ground as well as satisfying the stipulations of English Heritage regarding listed building status.

The installation was completed on time, and within budget by Protectahome's own, highly experienced operatives and a long term guarantee was issued following completion of the works.



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