

Basement Waterproofing Former Royal Naval Hospital, The Millfields, Plymouth

Client: Property Developer

Completed: 2008

Case Study No: 105

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

The Project:

The conversion of several listed 18th century, former royal naval hospital, stone buildings into luxury apartments.



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Former Royal Naval Hospital - The Problem

The site of the former Royal Naval Hospital in Plymouth, constructed in 1762, was to be converted into luxury apartments and commercial premises and known as The Millfields.

The 'Glastonbury Building' is one of several striking Grade II listed stone buildings that make up the site and required substantial works as part of the conversion. Works were to include waterproofing of the basement level to provide a Grade 3 (Habitable) environment as per BS8102.

Protectahome were approached as basement waterproofing specialists to design and install a robust waterproofing solution that was also sympathetic to the historic structure and acceptable to the appointed conservation officer considering it's listed status.



THE BASEMENT
INFORMATION
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BSA
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Former Royal Naval Hospital - The Solution

Working in conjunction with the project design team, Protectahome's CSSW qualified surveyor specified a Type C (Drained) Protection waterproofing system that would not only provide the necessary level of protection to the basement, but fall within acceptable, reversible works to a listed building.

The Type C System incorporated the use of 8mm cavity drain membrane fitted to the wall and floor surfaces. The studded wall membranes also include a welded mesh on the surface to allow for dot and dab plasterboard to be directly applied as a space saving measure rather than an independent dry lining system being fitted.

At the wall/floor junction, perimeter drainage channels were fitted with service ports included at strategic locations to allow for future maintenance of the system.

The perimeter drainage channels discharged to 4 sump chambers each fitted with dual automatic sump pumps and a high water level alarm. The basement level was sub-divided into 4 apartments so therefore each apartment included it's own sump chamber and individual drainage.

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



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