

Remedial Damp Proofing The Tower, Penrice Castle, West Wales

Client: Estate Owner

Completed: 2009

Case Study No: 23

- Listed Building Repairs
- Damp Proof Membrane
- Full Design & Installation
- Long Term Guarantee

The Project:

To protect this Grade II listed tower from external damp penetration to facilitate it's conversion into a luxury holiday let.



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The Tower, Penrice Castle - The Problem

'The Tower' sits within the grounds of the historic Penrice Castle, near Swansea and is a Grade II Listed Building in its own right.

Penrice Castle was built by the de Penrice family who were originally given land at Penrice for their part in the Norman conquest of Gower. The current owners are still direct descendants of the de Penrice family.

The Tower was built in the 1790's as an extravagant Gothic folly to have the appearance of a ruined castle and was subsequently converted to a luxury holiday apartment. Due to its Grade II listed status and stringent planning and building regulations, the builders were required to repoint externally using lime putty and replaster internally with lime render.

Once works were completed, it became apparent that the chosen lime products allowed severe water ingress into the property affecting the walls, ceilings and first floor timbers.

Protectahome were contacted by the owners to inspect and provide a comprehensive solution that considered the historic and listed status of the building.



THE
BASEMENT
INFORMATION
CENTRE
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The Tower, Penrice Castle - The Solution

Following a detailed inspection by Protectahome's highly experienced CSRT and CSSW qualified surveyor, it was decided that the most suitable solution would be the installation of a studded cavity drain membrane to all walls in order to isolate and protect the internal finishes from the damp external surfaces.

In addition, for added protection, all internal timbers were isolated from the external wall surfaces to prevent future decay.

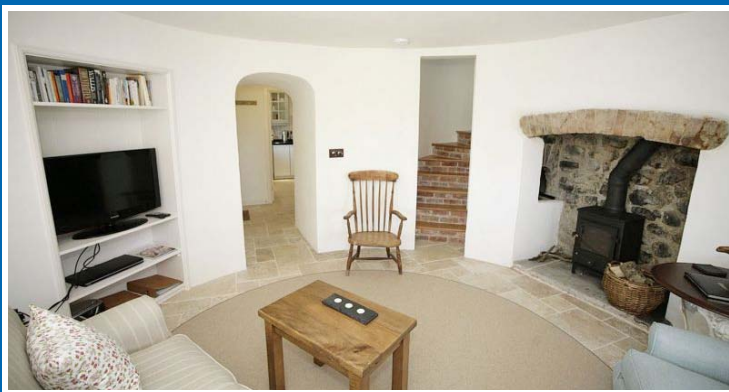
On completion, the membrane was rendered with lightweight renovating plaster and ready for redecoration.

The application is fully reversible and accepted by CADW as suitable for the building's status.



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