

New Build Waterproofing Horizon Apartments Ogmore-by-Sea, South Wales

Client: Property Developer

Completed: 2017

Case Study No: 272

- New Build Waterproofing
- Type A (Barrier) Protection
- Type C (Drained) Protection
- Full Design & Installation
- Guarantee



The Project:

7 award winning, luxury new build apartments complete with stunning sea views on the South Wales Heritage Coastline at Ogmore-by-Sea.



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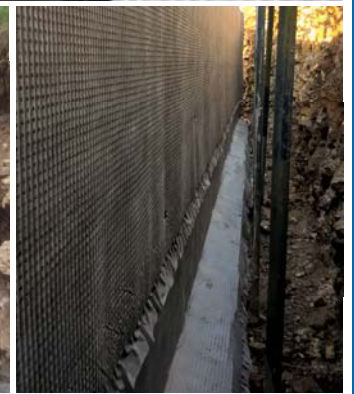
Horizon Apartments - The Problem

Located on the Welsh Heritage Coastline within a tranquil corner of the Vale of Glamorgan, this development offers excellent sea views, quiet village living and fantastic access to a local beach less than 500 yards away.

The project was recognised at the 2017 UK Property Awards, winning in the residential category for South East Wales.

The development consists of 7 high end, 2 bed apartments built into a slightly sloping site.

Due to the site topography, the rear elevation of the building was earth retaining and so Protectahome were approached to fulfil the role of waterproofing specialist that would include the design and installation of a combined scheme of waterproofing that would comply with both third party warranty requirements and BS8102:2009 (The British Standard Code of Practice for the protection of below ground structures against water from the ground).



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Horizon Apartments - The Solution

Working alongside project designers and engineers, Protectahome's CSSW qualified waterproofing specialist designed a combined system of waterproofing that incorporated Type A (Barrier) and Type C (Drained) Protection. The combined system would provide the necessary protection suitable for a habitable Grade 3 Environment (BS8102).

The external Type A system took the form of liquid membrane applied to the concrete structure, followed by drainage membrane, land drain, protection boards and clean backfill - all designed to alleviate water pressure against the structure.

The internal Type C system was provided by the installation of 8mm cavity drain membrane to the walls and floors and a perimeter drainage channel recessed within the slab. Liquid membrane was also installed internally at construction joints, which represent a traditional point of weakness in a concrete structure. The perimeter drainage channel was fitted with service ports to allow future inspection and maintenance.

The sloping topography of the site meant the perimeter drainage channel could drain passively.

The installation was completed by Protectahome's own NVQ qualified specialist operatives and was completed on time and within budget. Following completion of the works Protectahome's long term guarantee was issued.



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