

# New Build Waterproofing St Aubyn's Rise Tiverton, Devon

Client: Housing Developer

Completed: 2016

## Case Study No: 297

- Type A (Barrier) Protection
- Type C (Drained) Protection
- Warranty Provider Approved
- Long Term Guarantee

### The Project:

Development of 14  
3 & 4 bedroom  
detached luxury  
homes set within the  
picturesque Exe  
Valley near Tiverton,  
Devon.



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# St Aubyn's Rise - The Problem

Nestled within mature woodland of the Exe Valley just outside of Tiverton, 14 no. 3 & 4 detached luxury houses were to be developed offering an excellent opportunity to enjoy both a town and rural lifestyle.

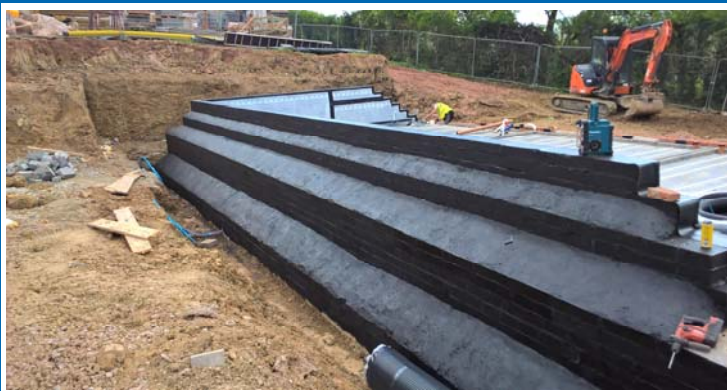
The development site significantly slopes from front to rear resulting in several of the plots being built into the hillside and thus containing earth retained elevations to varying depths. The earth retaining sections would require specialist waterproofing to protect against water from the ground.

Protectahome were approached by the developer to provide a bespoke, guaranteed waterproofing solution that would comply with both British Standard 8102:2009 and NHBC chapter 5.4 requirements.



THE  
BASEMENT  
INFORMATION  
CENTRE  
MEMBER

British  
Structural  
Waterproofing  
Association



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# St Aubyn's Rise - The Solution

Working in conjunction with project designers and engineers, Protectahome's CSSW qualified waterproofing surveyor specified a combined Type A (Barrier) and Type C (Drained) Protection waterproofing system to provide the necessary Grade 3 (Habitable) environment as per BS8102:2009.

The Type A system incorporated the use of Liquid Membranes applied externally to earth retaining elements supplemented by pressure relief membrane, clean free draining stone and periphery land drain— all designed to relieve pressure against the structure.

The Type C system incorporated the use of Cavity Drain Membranes installed to the interior of the earth retaining elevations. Specialist perimeter drainage channels were installed to the wall/floor junction to safely carry any free water, that was able to penetrate the structure, to a safe point of disposal.

Service/maintenance ports were fitted at strategic locations along the perimeter drainage channels to allow for future monitoring and, if necessary, cleaning of the system.

Given the sloping topography of the site, the perimeter drainage channels were able to passively drain away from the structures into gravity fed mains drainage.

All works were completed on time, and within budget, by Protectahome's own NVQ qualified operatives before a long term guarantee was issued and the whole system fully approved by NHBC.



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