



Beautiful Basements Case Study Pile Capping Beam - Ashley, Northants

Client
Waterproofing Designers

Langton Homes
Beautiful Basements

Background

Leading local developer, Langton Homes commissioned Beautiful Basements to construct a small basement next to a road in Ashley, Northants.

Construction Method

Once the piles were finished beautiful basements moved in to finish off the site stabilisation by installing the pile capping beam.

The pile capping beam is a reinforced concrete beam that ties the heads of all the piles together and stops them moving individually. Once cast and cured the basement can be excavated next to the road without fear of the land giving way and vehicles falling into the excavation.

The excavation was carried out and a new reinforced concrete base was cast

The four walls were then built using mass filled reinforced concrete held in place with temporary timber shuttering. The contiguous piles were tied into the new basement walls.

Waterproofing Method

Type A – External Barrier Protection

2 coats cementitious slurry were applied and a drainage membrane layer was laid, linked to a sump and dual pumping stations.

Type C – Cavity Drainage Membrane System

Internally all walls and floor were lined with a cavity drainage membrane and linked to an internal sump and dual pumping stations.

All waterproofing materials were supplied by Triton Systems

Build Programme

3 months



Basement Build
Conversion
Retro-fit
Waterproofing

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