



Beautiful Basements Case Study

New Build Basement - Church Langton, Leicestershire

Clients
Waterproofing Designers

Mr. & Mrs. Singha
Beautiful Basements

Background

Basement build for a new mansion on the edge of Church Langton village. Beautiful Basements were commissioned to supervise excavation of the site including a 50m² sunken garden, then build and waterproof the 400m² basement. Once constructed, the basement was split into several rooms, including a guest bedroom and ensuite, recreational space, plant room and lift shaft to reach the upper storeys.

Construction Method

Mass filled reinforced concrete slab with several thickenings for structural loadings was cast first.

The walls were then build using insulated concrete formwork (ICF) on top of this slab.

A 140mm thick brickwork wall was built inside the ICF walls and a block & beam floor laid onto this blockwork to form the ground floor.

Waterproofing Method

Type A – External Barrier System

A thick, two coat, fibre glass reinforced bitumen was sprayed onto all external faces, protected by a geotextile covered cavity drainage membrane and linked to external perimeter drains & a pumping station.

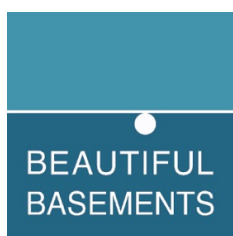
Type C – Cavity Drainage Membrane System

A cavity drainage membrane was applied internally to all walls and the flooring throughout. These membranes were then linked to a sump & pumping station via under-slab drainage.

Waterproofing materials supplied by Köster UK & Safeguard Europe Ltd.

Build Programme

7 months



Basement Build
Conversion
Retro-fit
Waterproofing

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