



Beautiful Basements Case Study

ICF Basement Waterproofing - Oxfordshire

Client
Waterproofing Designers

Triumph BD Ltd.
Beautiful Basements

Background

New build of 2 homes in rural village in Oxfordshire.

Triumph BD had planning permission for two homes, one with a large basement for a cinema, gym and wine cellar and was built using Quad Lock ICF (insulated concrete formwork) blocks. Originally planning to waterproof the basement 'in-house', Beautiful Basements were called in once it was realised a specialist was required. During Beautiful Basements original survey the basement was under 12 inches of water.

Construction Method

Following a tried and tested design from membrane suppliers Triton Systems, the basement was waterproofed internally, dispelling rumours that it is not possible to fix membranes to polystyrene blocks.

The external walls were lined with Platon P8 and the floor with Platon P20. Internal walls were built off a DPC and 'dry side' of the wall membrane to prevent damp transfer. The perimeters were fitted with Triton Aquachannel and a twin pump & battery back unit with high water alarm sump was fitted to deal with day to day water.

Waterproofing Method

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 via a series of perimeter drains.

All waterproofing materials were supplied by Triton Systems

Build Programme

10 days



Basement Build
Conversion
Retro-fit
Waterproofing

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