



## Beautiful Basements Case Study

### New Build Basement - Hitchin, Hertfordshire

**Client**  
**Structural Engineers**  
**Waterproofing Designers**

**Mr. Bruce Jordan**  
**Nolan Associates**  
**Beautiful Basements**

#### Background

The project comprised a new build basement to the rear of an existing property with internal staircase access. The new space would be utilised as a kitchen dining room with natural daylight provided by a specially constructed light-well at the side.

#### Construction Method

Work began by supporting the rear structural walls ensuring nothing could collapse prior to excavation. The existing wall walls were then underpinned and a concrete slab laid for the new structure. New walls including the light-well were formed to the basement area and a Delta CDM system was installed throughout. A pump was added to ensure full control of any rise in water level.

#### Waterproofing Method

Type B – Integral Protection

The external walls were constructed using reinforced concrete with an additive, making the concrete waterproof.

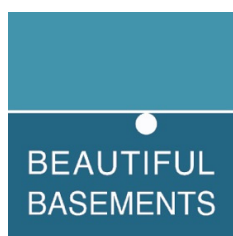
Type C – Cavity Drainage Membrane System

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 Delta Membranes

#### Build Programme

1 week



**Basement Build**  
**Conversion**  
**Retro-fit**  
**Waterproofing**

Beautiful Basements  
 3d Westbridge Industrial Estate  
 Duns Lane  
 Leicester LE3 5LX

**T** 0116 233 8180  
**F** 0871 433 5174  
**E** [info@beautiful-basements.co.uk](mailto:info@beautiful-basements.co.uk)  
**W** [www.beautiful-basements.co.uk](http://www.beautiful-basements.co.uk)