



Beautiful Basements Case Study

Deck above new retro-fit basement, Central London

Client
Waterproofing Designers

MRA Refurbishments
Beautiful Basements

Background

Following the creation of a retro-fit basement and installation of a deck in South Kensington, specialist contractor MRA Refurbishments commissioned Beautiful Basements to waterproof the basement roof prior to garden installation. Works involved the creation of a sump chamber to remove excess rainwater and deck waterproofing using a proprietary bitumen product.

Construction Method

The main house already had a basement that was the lowered and underpinned. The garden was then supported either side and excavated. With the basement fully built a deck was laid on top of the garden basement and sealed from below.

The first stage of constructing the waterproofing was to create a sump pit within the garden deck, this allows for any rain that falls to drain into a central point and be pumped away, meaning no puddles will be allowed to form on the deck. The second stage was to lay a fiberglass reinforced concrete topping to the deck, laid with slight falls towards the sump. This concrete was separated from the main deck with slip coats, negating the effects of thermal movement between the deck and concrete.

Finally the entire deck, planters and parapet walls were thoroughly cleaned and a thick coat of a hydrophilic cementitious slurry was applied to every surface.

Waterproofing Method

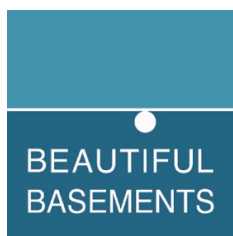
Type A - Barrier Protection

A thick, 2 coat bitumen with fibreglass mesh reinforcement was sprayed over the new structural concrete & slurry. Geotextile covered cavity membranes were then laid on top of the bitumen on the deck, planters and parapets ready for the garden finishes to be applied over.

Waterproofing materials were supplied by Köster UK

Build Programme

9 days



Basement Build
Conversion
Retro-fit
Waterproofing

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