

CASE STUDY: BUILDING MATERIALS

HIGH WATER TABLE PROJECT IN SCOTLAND USES VOLTEX DS

PROJECT: Grove Street Apartments

LOCATION: Grove Street, Edinburgh

PRODUCTS: Voltex DS, Waterstop RX101, Volseal 600

BACKGROUND: A tanking membrane complying with BS8102, Grade 4 was required by Watkin Jones Ltd for apartments being built near a canal in Edinburgh.

CHALLENGE: To offer a complete design package complying with BS8102, Grade 4, to encapsulate the basement structure from an area with an historically high water table, and sitting adjacent to, and several hundred yards from, the Union Canal.

It was also necessary to waterproof an area at ground level, with a kitchen area directly below.

All this was to be carried out in the worst winter weather conditions experienced in over 20 years.

SOLUTION: The solution was to work with the main design team, and supply a package of bespoke details enabling the main contractor and waterproofing contractor to construct a basement with a very tight building programme, and also continue working throughout, in exceptionally severe weather conditions.

The principle method offered was CETCO's Voltex DS, a dual-system waterproofing membrane comprising of a composite of two high-strength geotextiles, encapsulating 4.88 kg of Sodium Bentonite per square metre, coupled with a LPDE liner, integrally bonded to the non-woven geotextile.

The area to be waterproofed above the kitchen, was executed utilising Volseal 600, a single-component, rapid curing, modified polyurethane waterproofing membrane that can be applied to green or damp concrete surfaces.

RESULT: A comprehensive, dual-protection system, below ground and ground level structure, was completed on schedule, and covered by a full CETCO System Warranty supplied to Watkin Jones Ltd.

For a free consultation for your next project, call a CETCO Waterproofing expert at +44 151 606 5900.



Voltex DS is particularly appropriate for use in conditions where excessive precipitation and / or contamination exist, and for structures under continuous or intermittent hydrostatic pressure.

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