

HIGH WATER TABLE PROJECT IN SCOTLAND USES VOLTEX® DS

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



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.

PROJECT

Grove Street Apartments

LOCATION

Grove Street, Edinburgh, UK

PRODUCTS

VOLTEX® DS, WATERSTOP-RX® 101,
VOLSEAL® 600

CHALLENGE:

To offer a complete design package complying with BS8102, Grade 4, to encapsulate the basement structure from an area with a 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.

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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.