

## CASE STUDY

### DIAQUIP DQ5 DIAMOND WIRE

**SWC**onstruction

#### OVERVIEW

The Company:	SWC Construction
Project:	Apex Hotel, Bath
Location:	Bath, England
Employees:	20
Industry:	Construction
Customers for:	5 years

#### **DQ5 Diamond Wire Sawing Project for Apex Hotel, Bath**

SWC is a construction contractor working primarily on renovation and new build projects.

The Company has over 10 years' experience of fulfilling construction projects of varying sizes and types in the private and public sectors.

#### THE CHALLENGE

SWC Contractors needed a Diamond Core drilling solution for making a large number of varying cuts through reinforced concrete blocks in the basement of the Hotel in order to create a new function that was being constructed as part of a £1m refurbishment project.

The project involved saw cutting and careful removal of selected stanchions in the basement/cellar area of the Apex Hotel in Bath. Constructed from exceptionally hard reinforced concrete with heavy rebar, the project included intense dust management due to the confined location and ventilation.

The project called for a diamond wire sawing solution that would reduce the amount of time it took to cut back the four 800mm concrete supporting stanchions.

Dust and vibration was kept to the lowest possible level throughout the works due to adopting a less aggressive method of concrete cutting, which ensured the transmission of noise and dust was kept below the required parameters,





## THE SOLUTION



Diaquip needed to provide a fast, long-lasting and cost effective Diamond Wire due to the reinforced concrete blocks needed to be cut as part of this project. It was essential that the wire performed well on reinforced concrete (including steel rebar).

The Diaquip DQ5 diamond wire was chosen for the project – as it is constructed using a totally new method, called Fusion Tech which gives DQ5 much better speed and life advantages. Can be used effectively on virtually all concrete types including extremely high reinforced concrete and concrete with exposed steel rebar.

## THE RESULT

DQ5 Diamond wire is a very fast cutting, long life sintered concrete wire, for extreme & professional applications. This wire has been developed using 'Fusion Technology' innovation, which has proved to be a step change in the diamond wire sawing industry standards. SWC used the DQ5 on the Concrete Stanchions in the cellar area of the Apex Hotel, with great feedback from its wire saw operators, as it fit the brief perfectly in terms of speed, performance and life of the wire.

Apex Hotel was a challenging project – with strict targets and many complex cuts to make to the supporting columns and internal structure of the basement area. Diaquip's DQ5 diamond wire helped to keep the wire sawing time down both with excellent speed and life of the wire.

**"Our Wire Saw Operators found the DQ5 Diamond Wire to be very fast cutting... kept its structure and durability – despite working on heavily reinforced concrete and in enclosed, relatively confined spaces."**

James Thornell, Wire Saw Operator – SWC Construction.