

**CASE
STUDY**

Client Cardiff and Vale NHS Trust

Project date 6 months

Case Study date April 09

Area

Budget

**Project: University Hospital of Wales, Halipad,
Cardiff, Wales, UK**

Design all structure and access ramps for Helipad.

Description of project

The project was aimed at cutting the delays which were caused by the airlifting patients to the helipad in Cardiff Docks and then transferring them to hospital.

The site is located adjacent to the accident and emergency dept. at the hospital and is retrofitted to the existing building.

Merebrook was commissioned to design and provide site visits during the construction work.

The forces were analyzed using finite element analysis with varying and complex load conditions and load locations so as not to compromise the existing adjacent buildings.

A thin continuous RC slab, designed to withstand impact loading from helicopters to civil aviation codes, was used with reinforced concrete supports and open mesh steel access ramps.

The helicopter first landed on the pad on 25th January 2007.

