

# TCRC Case Study: Royal United Hospital, Bath



## Thermally Efficient Waterproofing Solution for Busy Hospital

The Royal United Hospital is a listed building providing acute treatment and care for a population of around 500,000 people in Bath and the surrounding areas.

When a number of key buildings on the hospital's 52 acre site needed an essential waterproofing upgrade, TCRC were appointed to install a high performance solution.

### Overlay of Asphalt Roof with new Lead Flashing

A major element of this project involved overlaying the existing asphalt roofs on the hospital's dermatology and maternity wings. To use asphalt again would have been very difficult logistically, and the cold temperature was unsuitable for applying liquid waterproofing. The client therefore opted for a two layer bituminous roofing system as the most convenient and effective solution.

Initially 130mm of PIR insulation was glued to the asphalt substrate in order to provide enhanced thermal properties. BMI Icopal's Profiles Underlay and Cap Sheet system was then torch applied to provide long lasting waterproofing protection.

On a separate large roof area, the existing stone chippings were removed and a complete built-up felt roofing system was installed, including vapour control layer, insulation, underlay and cap sheet. Elsewhere, new handrails and GRP trims were installed along with replacement lead flashing and new rainwater outlets.

In total, this project covered 6 roofs and a total area of approximately 5,000m<sup>2</sup>. All works were completed on time within a 3 month period, despite the challenges of working around plant in a number of restricted areas and staying on track during the cold winter months.

**Project:** Royal United Hospital

**Location:** Bath, Somerset

**Surveyors:** Edmond Shipway

**Products:** BMI Icopal Bituminous Roofing Overlay & System Accessories, Lead Flashing Replacement



The Complete Roofing Company Ltd  
Park House, 25 Park Row, Frampton Cotterell, Bristol, BS36 2BS  
(T) 01179 059876 (M) 07985 581500 (E) info@tcrc.uk  
[www.tcrc.uk](http://www.tcrc.uk)

