



Case Study: Harefield Hospital

Project

D & G Wings, Harefield Hospital

Building owner

Brompton & Harefield NHS Trust

Architect

Mario Sacco, Todd Architects,
London W8

Roofing Contractor

Fenland Flat Roofing, Cambridge

Roofing System

Sarnafil G410-12EL membrane bonded using sarnacol 2170 adhesive.
Sarnatherm G insulation bonded to existing waterproofing using Sarnacol 2162.
Existing system prepared by cutting and sealing blisters.
Re-configuration of gutters.
Perimeters encapsulated.

Project Size

4,500m²

Completion Date

December 2004

Health and Safety First.

The refurbishment of the 4,500m² roof at Harefield Hospital, was one that the Estates Manager at the Brompton & Harefield NHS Trust had found an ongoing challenge.

The existing asphalt roof had begun to show signs of blistering and slumping, which needed to be addressed to prevent failure, and the insulation required an upgrade to conform with the changes in the Building Regulation Part L.

In addition to the technical challenges there were other more sensitive issues to address. How do you re-roof a hospital when it's still in use? How can water ingress during refurbishment be prevented? How can we meet the 10 year guarantee requirements within budget? How can we find a system that can overlay the existing waterproofing without stripping? Finally, how many systems

can meet all these requirements and not have the need for naked flames or bitumen boilers.

Sarnafil Roof Management provided the solution. The existing concrete deck, with thin insulation and asphalt waterproofing was overlaid with SarnaTherm Insulation bonded to the existing covering using Sarnacol 2162. Sarnafil G410-12EL single ply membrane was then adhered to the insulation using Sarnacol 2170. This ensured that there were no naked flames or hot works.

The critical areas over the Operating Theatre and Intensive Care Unit encountered no disruption, nor did they experience any water ingress due to the fact that the existing roofing covering was left intact. There was also no noise from mechanically fixing into the concrete deck.

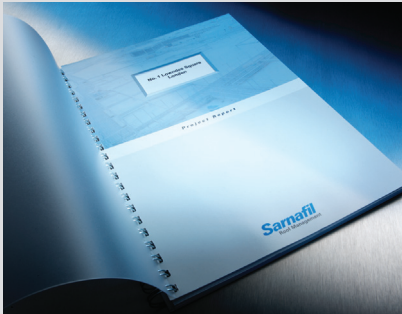
Sarnafil Roof Management provided design advice and produced detailed

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drawings to the client and contractor on every aspect of the works.

Andy Bacon, Managing Director of Fenland Flat Roofing comments "Harefield Hospital was a fantastic project with the opportunity not only to do a great job but also to provide a full integrated service. The knowledge and technical backup provided by Sarnafil, both on and off-site, ensured that the project was a success and all objectives were met."

For further information on Sarnafil Roof Refurbishment, please contact Sarnafil on 01603 748 985, email roofing@sarnafil.co.uk or visit our website: www.sarnafil.co.uk/refurbishment



As with all Sarnafil Roof Management projects, comprehensive documentation was provided, outlining or recommendations. Sarnafil Roof Management survey reports include re-roofing specification, project specific CAD drawings and wind load calculations.



The existing asphalt roof had slumping, incorrect detailing, blisters and cracks in the asphalt, and insulation that no longer met current regulations.



The existing roof construction and insulation were confirmed by taking core samples for analysis.



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