



Shinfield C of E Junior School in Reading was suffering from a seriously failing roof and there was a lot of water ingress from the timber felt roof. IKO PLC were asked to carry out a survey of all the roofs on the site.

IKO provided the school with a full survey report highlighting a number of problems with the roof. A follow-on Thermographic survey was scheduled which revealed that large areas of insulation were saturated. IKO's suggestion was to completely remove and replace the existing roof, then presented the client with a full waterproofing specification and CAD detail drawings.

Due to the urgency of the work, the repair work had to be carried out during school time. As the school would be occupied with children and staff, a cold applied system was specified.

The repair work involved the complete stripping of the roof, including existing BUFR waterproofing and insulation. A self adhesive vapour control layer was installed to avoid the risk of hot bitumen falling through the metal deck 20 and then a PU adhesive was used to install the insulation as well as a self adhesive underlay. Other products used were SA Superbar Vapour Barrier, Enertherm Insulation and SA Superbase FireBLOC Underlay.

The school had a history of vandalism, so to reduce the risk of arson, Ultra prevENT mineral capsheet was specified. Ultra prevENT features graphite firewall technology to stop the spread of fire from external sources.

**Project Sector:** Education, Refurbishment

**System:** Built-up Felt Roofing

**Products Used:** Ultra prevENT Membranes  
 SA Superbase FireBLOC Underlay  
 Enertherm PIR Insulation  
 SA Superbar Vapour Barrier

**Contractor:** Premier Roofing Contractors Ltd

**Started:** September 2007

**Completed:** February 2008

**Size:** 1275m<sup>2</sup>

**Contact:** Terry Davis / Stewart Britton

There have been a number of extensions added over the years which meant that there were a number of detailing issues that had to be considered, and there are also a large number of roof lights which were re-newed to conform to the new part L regulations.

This project is an excellent example of how a cold applied bituminous membrane technology, alongside excellent site management, can provide emergency solutions to problem roofs on sensitive and difficult sites at the most difficult time of the year. The school now has a superior roof which was installed with minimum disruption and maximum concern for safety. The roof will serve to also protect the building from the threat of arson, and it is backed by a 20 year guarantee.

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