SIKA AT WORK
GROVE PARK SCHOOL, CHISWICK

ROOFING: Sarnafil G410-18ELF membrane bonded using sarnacol 2170 adhesive. Sarnatherm G insulation mechanically fixed to underlying aluminium deck using peel rivets.

Sarnafil®

Sika®

GROVE PARK SCHOOL, CHISWICK

PROJECT REQUIREMENT

Grove Park Primary School in Chiswick sought the help of Sarnafil's Sarnafil Plus Department when the existing waterproofing on its unusual wave-form roof became brittle and ongoing stress on the bituminous felt had lead to water ingress. As with many schools across the country, the roof had been patch repaired on numerous occasions to try and extend the life of the existing waterproofing, but even these were starting to fail. As the patching had only provided a temporary solution, Redmond Ivie Architects, contacted Sarnafil to find out how the roof could be successfully refurbished with the challenges posed.

The main objective was to make waterproof the curved roof of the primary school, upgrade the insulation to meet the latest Building Regulations requirements and provide a 20 year comprehensive guarantee within the budget.

On the face of it, a fairly standard re-roofing project, the type of which would be generally completed during the annual summer holidays. However the poor condition of the existing waterproofing meant that the work had to be carried out in term time, a difficult task with almost 500 primary school children in-situ. As the school would be occupied whilst the works were to be undertaken the use of naked flames and bitumen boilers were prohibited.

SIKA SARNAFIL SOLUTION

Sarnafil Plus provided a detailed survey report stating the existing condition of the roof. Pull out tests, core samples, wind uplift and thermal calculations, were all undertaken. Photographs of problematic areas and detail drawings were included. Finally, the report provided a recommended specification which dealt with issues and challenges that the project raised.

To overcome the Health and Safety issues whilst maintaining the waterproof environment, Sarnafil proposed a mechanically fastened insulation board to the underlying structural deck with Sarnafil membrane bonded to the insulation using a cold applied adhesive to ensure that the new waterproofing system was not reliant on any existing component within the bituminous covering that was left in place.

Therefore disturbance from the works was kept to a minimum and there would then be less chance of water ingress during the refurbishment. Whilst the complexity of the original roof shape was maintained, numerous details were redesigned in consultation with the architect, to avoid future water ingress and provide a maintenance free solution. This advice, covered by Sarnafil's design insurance, ensured that the client had total peace of mind on the completed project. Brendan McNulty, Director of Delomac Roofing commented, "Specification and interface detailing were addressed by rigorous preplanning from the Sarnafil Plus Team - this allowed Delomac to hit the ground running with this project. We were consequently able to deliver a technically demanding project in wet spring weather to time and budget requirements, and with minimal disruption to the School. Client satisfaction has been evidenced in subsequent negotiated projects."

PROJECT PARTICIPANTS

Architect: Redmond Ivie Architects
Roofing Contractor: Delomac Roofing
Project Size: 3,500m²

SIKA LIMITED
Sika Sarnafil, Watchmead,
Welwyn Garden City,
Hertfordshire
AL7 1BQ

Contact
Tel 01707 394444
Fax 01707 329129
Email sarnafilroofing@uk.sika.com
www.sarnafil.co.uk