

High Performance Modified Bitumen Provides Waterproofing For Academy

Longsands Academy | St. Neots, Cambridgeshire

CHALLENGE

Despite numerous attempts at remedial action, the 750 sqm roof section had come to the end of its useful life and water ingress was still being experienced within the classrooms. After carrying out our survey and analysing the core samples, it was evident that the roof system was providing little in terms of waterproofing and thermal performance. Our core samples showed the roof systems' insulation to be saturated throughout.

The roof section was surfaced with loose chippings and it was evident that these were promoting ponding water and moss growth within the roofs field. The roof section also consisted of 20 fragile Georgian wired glass roof lights; these were highlighted as a health and safety concern and would need to be replaced with triple skinned polycarbonate roof lights if major roofing works were to be carried out.

A design process took place in order to create falls in the new roof system which would allow all water to drain to an internal box gutter at the roofs perimeter.

SOLUTION

It was proposed that the previous roof system would be stripped down to the metal deck in order for the metal deck to be inspected for any water damage or rust. The metal deck would then be over-decked with 12mm plywood and a Garland StressPly® Flex Plus Warm Roof System would be installed, with a tapered insulation system. The proposed roof system would also come with a 25 year independent, single point, Garland guarantee.

A Garland representative was on site 2-3 times a week in order to ensure that the project ran smoothly and all roofing works were being installed to the correct specification. The new tapered warm roof system was designed and installed to perfection. All 20 previous fragile roof lights were replaced with new triple skinned, non-fragile roof lights. The finished roofing project gave the client a new long-lasting roof system, where ponding water and leaks are no longer an issue.

StressPly is a trademark of Garland Industries



since 1895

Daniel Simpson

Phone: +44 (0) 7717 324594

Email: dsimpson@garlandukltd.co.uk

PUBLIC SECTOR



Project:	Longsands Academy
Location:	St. Neots, Cambridgeshire
Garland Rep:	Daniel Simpson
Contractor:	Cambridge Flat Roofing
Materials:	StressPly® Flex Plus

Partners for the **Life of Your Building**®

The Garland Company UK Limited • Glevum Works, Upton Street
Gloucester, United Kingdom GL1 4LA • www.garlandukltd.co.uk

