

CASE STUDY

Oxleas NHS Foundation Trust - Memorial Hospital



Garland System
StressPly Flex Plus

Sector
Healthcare

Client
Oxleas NHS Foundation Trust

Site
Memorial Hospital



Memorial Hospital, operated by **Oxleas NHS Foundation Trust**, required a critical roof refurbishment to extend the lifespan of its facilities, enhance thermal efficiency, and align with the Trust's Green Plan commitment to achieving net-zero carbon emissions by 2040.

The existing roof had reached the end of its serviceable life, posing risks of water ingress, increased energy costs, and ongoing maintenance challenges. **Pellings LLP**, an integrated design, property, and construction consultant, oversaw the project. Following **Garland UK's** detailed roof condition survey, the team was appointed to deliver a robust, high-performance waterproofing solution that could be installed with minimal disruption to the hospital's continuous operations while actively contributing to the Trust's decarbonisation goals.

Challenge

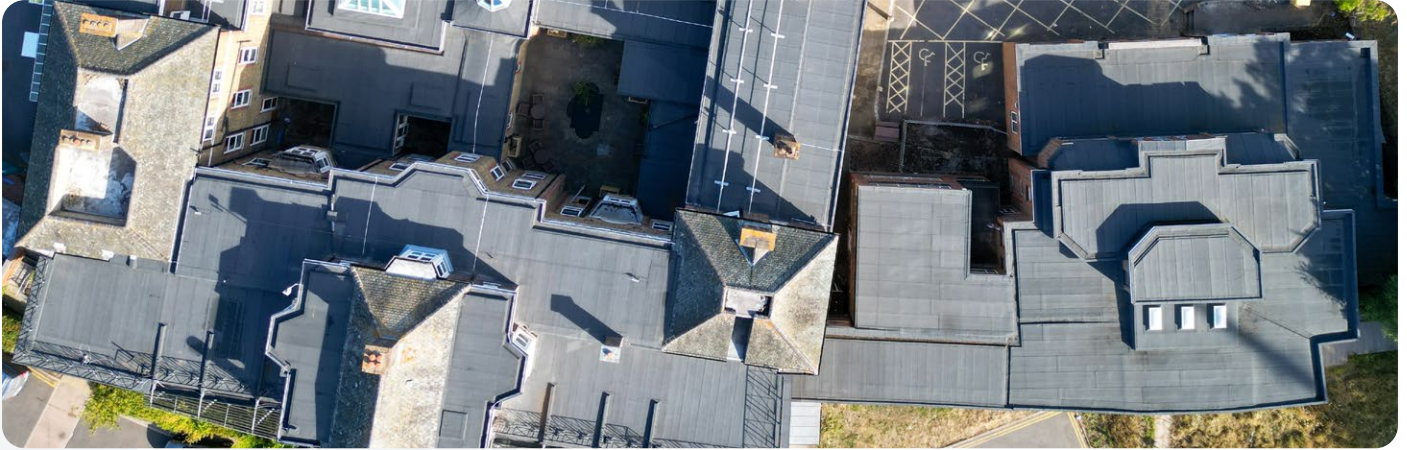
Hospitals present unique challenges when undertaking remedial works, requiring precise planning and execution to avoid disrupting essential medical services. Memorial Hospital was no exception, remaining fully operational throughout the roof refurbishment project. This meant every aspect of the refurbishment had to be meticulously coordinated to prevent disruption to patients, staff, and critical healthcare functions.

Logistical constraints, including restricted access points and uninterrupted emergency routes, required strategic coordination for material deliveries and contractor movement. Furthermore, fire safety was paramount, necessitating full compliance with Safe2Torch standards to eliminate risks associated with hot works.



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Additionally, the hospital's existing insulation was outdated and failed to meet modern building regulations. An upgrade was essential to comply with current standards, enhance the building's thermal efficiency, reduce heating costs and overall energy consumption, and support the Trust's Green Plan objectives.

Solution

Garland UK technical manager Jack Costello specified the **StressPly Flex Plus** bituminous waterproofing system, ensuring a durable, safe, high-performance solution tailored to a live hospital environment. The refurbishment, carried out by approved contractor **Inspire Contract Services Ltd**, included a tapered insulation scheme designed to improve drainage and significantly enhance thermal efficiency, reducing long-term heating costs.

In high-risk areas, self-adhesive membranes were used to ensure full compliance with Safe2Torch guidelines, eliminating the need for open flames in sensitive zones. Rooflights were upgraded to improve natural light and energy efficiency, with installations scheduled during non-peak hours to minimise disruption to hospital activities.

Strict quality assurance measures were followed throughout the project, with twice-weekly inspections and real-time documentation via Garland UK's **RAMP** system to maintain regulatory compliance and project oversight.



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Outcome

The hospital roof refurbishment was completed on time and within budget, delivering a significantly upgraded, high-performance roofing system that will ensure the hospital remains watertight and energy-efficient for decades to come. The roof of the building now achieves a U-value of 0.15, and the insulation improvements have already led to noticeable thermal efficiency improvements and comfort for patients and staff, directly supporting the Oxleas NHS Foundation Trust's Green Plan to reduce carbon emissions from its buildings.

Jack Costello visited the site twice weekly to oversee the installation and ensure all work met the highest standards. Garland's **RAMP** system recorded all inspections, reports, and documentation in real time, providing complete transparency and a clear audit trail for the client and all parties involved.

Through expert planning, technical precision, and stringent quality control, Garland UK has delivered a seamless, future-proof solution that safeguards the hospital's essential services while ensuring uninterrupted patient care. The refurbishment is fully backed by **Garland UK's 25 year Single-Point Guarantee**, which provides complete peace of mind to Oxleas NHS Foundation Trust and provides key assurance that the hospital's critical infrastructure is protected with long-term reliability.



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