



Garland UK's R-MER SEAM roof replacement enhances safety and efficiency at Ysgol Llwyn Yr Eos in Aberystwyth, as the perfect match for a challenging copper roof replacement.

Ysgol Llwyn Yr Eos in Aberystwyth urgently required a roof replacement to tackle serious safety and thermal issues. The existing roof was fragile, inefficient, and exposed to the elements, endangering students and staff. In partnership with Ceredigion County Council, Garland UK delivered a custom waterproofing solution featuring the robust and thermally efficient R-MER SEAM system.

Challenge

The roof was in a critical state. Due to vandalism, missing copper sheeting had left fibreboard insulation exposed and saturated with moisture. This compromised the roof's structural integrity, making it unstable and unsafe to access. The risk of collapse into classrooms created an immediate safety hazard.

Thermal inefficiency compounded the problem. The roof failed to regulate indoor temperatures, leaving classrooms cold and uncomfortable in winter. These issues disrupted the learning environment and placed additional strain on heating systems. A rapid solution was needed to address both safety and energy concerns without disrupting school operations.

Quick Facts

Project
Ysgol Llwyn Yr Eos

Location
Aberystwyth

Garland System
R-MER SEAM

Sector
Education

Garland Technical Manager
Jordan Thomas

Approved Contractor
The Complete Roofing Company



Budgets were also a consideration, where the cost of a full roof replacement with copper sheeting would not be viable, and an alternative solution was required.

Solution

Garland UK technical manager Jordan Thomas developed a targeted solution to address the roof's structural dangers and thermal inefficiencies, ensuring safety and long-term performance. Installed by approved contractor, The Complete Roofing Company, the project began with completely removing the damaged roofing materials. Stripping the existing layers down to the timber deck eliminated the moisture-saturated insulation and unstable components, creating a secure base for the new system.

A vapour control layer was installed to protect the roof from future moisture issues, ensuring the new insulation remained dry and durable over time. High-performance 130mm PIR insulation was added, significantly enhancing the building's thermal efficiency and addressing the issues of fluctuating indoor temperatures.

The final stage involved the application of the R-MER SEAM, a low-profile steel standing seam system with a secret fix. The lightweight system allowed for efficient installation, where the steel panels effortlessly clicked into place, delivering a seamless and highly durable finish. Its colour-matched steel coating and sleek appearance retained the aesthetic appeal of the original copper roof while offering superior security and long-term performance.

Throughout the project, temporary waterproofing measures ensured the school remained operational without disruption. Garland UK's Roof Asset Management Programme (RAMP) provided stakeholders with real-time updates, detailed progress reports, and photographic documentation. This transparency ensured confidence in the quality of the work being carried out.





Outcome

The roof replacement transformed Ysgol Llwyn Yr Eos into a safe, efficient, and visually appealing environment. The structurally fragile roof was replaced with a durable R-MER SEAM system, eliminating safety risks and restoring confidence in the building. Improved thermal performance to a 0.18 U-Value provided a stable indoor climate, reducing heating costs and enhancing comfort for students and staff year-round.

The council mitigated unnecessary costs thanks to R-MER SEAM's close aesthetic match to copper. The modern design complemented the school's architecture while offering superior vandal resistance, ensuring long-term protection.

Jordan Thomas adds, "When faced with the urgent challenges at Ysgol Llwyn Yr Eos, we knew a bespoke solution was vital. By replacing the fragile roof with the thermally efficient R-MER SEAM system, we not only resolved the immediate safety concerns but also significantly improved the school's energy performance."

Upon completion, Garland UK conducted a rigorous quality inspection before issuing their industry-leading 20-year Single-Point Guarantee, assuring the roof's durability and performance for decades to come.

