ROOF REFURBISHMENT

Worcester Crematorium



01 Completed roof refurbishment viewed from above.

CLIENT	Worcester Crematorium
CONTRACTOR	Absolute Waterproofing
MANUFACTURER	Garland UK
FLAT ROOF SYSTEM	329 m² Garland StressPly Signature Built-Up Roofing (BUR) System
PITCHED ROOF SYSTEM	200 m² Garland R-Mer Loc Metal Roofing System
TOTAL ROOF AREA	529 m²
PROJECT VALUE	Confidential

PROJECT BACKGROUND

The brief

Absolute Waterproofing was appointed to deliver a comprehensive roof refurbishment at Worcester Crematorium following ongoing leaks, water ingress damage and deterioration of the existing roof coverings.

The brief called for a long-term waterproofing solution across the flat and pitched roof areas. Improving the building's weather resistance, maintaining its appearance and minimising disruption to day-to-day operations were central requirements.

Existing roof and early works

The early-stage photographs record the roof areas before installation of the replacement systems. They show rooflight openings, existing roof surfaces and perimeter areas within the working environment.



02 Existing roof and rooflight openings.



03 Roof surface during early works.



04 Roof perimeter and adjoining areas.

A coordinated refurbishment

The requirement extended beyond replacing the main roof coverings. Insulation, rooflights, guttering and downpipes formed part of the same package, allowing the refurbishment to address the roof surfaces and the elements that bring daylight into the building and manage rainwater.

> **Primary objective**
>
> Provide a robust roofing solution that addresses the reported water ingress and supports the long-term protection of the building.

SURVEY, PREPARATION AND INSTALLATION

The roofing solution

Following a detailed roof survey, a tailored refurbishment package was developed using Garland UK roofing systems. Different systems were selected for the flat and pitched roof areas, creating a coordinated solution across a total of 529 m².

01 Strip-out and preparation

Works commenced with removal of the existing roof coverings back to the structural deck where required. This prepared the relevant roof areas for the replacement build-up. The strip-out and preparation formed the starting point for the insulation and roofing installation.

02 New roof insulation

New insulation was installed as part of the refurbishment to improve thermal performance. The insulation and replacement roof coverings formed an integrated roof build-up, bringing the thermal upgrade and waterproofing works together within the same package.

03 Flat roof waterproofing | 329 m²

Garland StressPly Signature Built-Up Roofing (BUR) was installed across 329 m² of flat roof areas. The system provided the replacement waterproof covering to these sections. The flat roof scope also included the interfaces with rooflights, perimeters and adjoining roof elements, where the waterproof covering meets changes in the roof geometry.

04 Pitched metal roofing | 200 m²

A further 200 m² of pitched roofing received Garland's R-Mer Loc Metal Roofing System. This renewed the weatherproof finish to the pitched sections, providing a durable roofing surface and enhancing the appearance of these areas alongside the flat roof works.

05 Integration of the roof areas

Using complementary roofing systems allowed the solution to respond to the different roof forms. The complete refurbishment included both the main roof surfaces and the associated components described on the following page.

> **Roof area breakdown**
>
> 329 m² flat roofing + 200 m² pitched metal roofing = **529 m² total roof refurbishment.**

ASSOCIATED WORKS AND DETAILING

The complete roof package



05 Completed flat roof areas, dome rooflights and adjoining roof sections.

New dome rooflights

New dome rooflights were installed as part of the refurbishment, renewing these roof elements alongside the surrounding coverings. Their junctions with the refurbished flat roofing formed part of the waterproofing scope, bringing the rooflights and roof finish together as one installation.

Aluminium box guttering

New aluminium box guttering was installed to collect runoff from the relevant roof areas. Including the guttering in the refurbishment addressed rainwater collection alongside the replacement coverings, rather than treating the roof surface and drainage as separate works.

New rainwater downpipes

New downpipes completed the rainwater goods package, carrying collected water from the guttering through the building's rainwater drainage route. Together, the replacement box gutters and downpipes renewed the roof's water collection and discharge components.

> **Coordinated scope**
>
> Roof coverings, insulation, dome rooflights, box guttering and downpipes were brought together within a single refurbishment package.

COMPLETED REFURBISHMENT

The result



06 Aerial view of the completed building and refurbished roof areas.

The completed refurbishment has provided Worcester Crematorium with a modern, robust roofing solution designed to deliver long-term waterproofing performance. The works addressed the deteriorated coverings and existing water ingress issues whilst renewing the appearance of the roof.

Combining StressPly Signature BUR with the R-Mer Loc Metal Roofing System provided a solution suited to each roof type. New insulation, dome rooflights, aluminium box guttering and downpipes extended the improvements to the wider roof package.

Project outcomes

WEATHER PROTECTION	Replacement flat and pitched roof coverings, with systems selected for the different roof areas.
THERMAL UPGRADE	New roof insulation incorporated within the refurbishment build-up.
ROOFLIGHT RENEWAL	New dome rooflights installed alongside the refurbished roof coverings.
RAINWATER MANAGEMENT	New aluminium box gutters and downpipes to collect and direct roof runoff.