



CASE STUDY - FLAT ROOF REFURBISHMENT—HERITAGE *LYCEUM BUILDING, LIVERPOOL*



Background

The Lyceum Building in Liverpool is a Neoclassical Grade II listed building, constructed in 1802 as a news-room and England's first subscription library (1758-1942), and later became a gentleman's club. After the club relocated in 1952 the building was left unoccupied for many years, eventually falling into a state of disrepair. Despite calls for its demolition in the late 1970s, the building has survived and is now under new ownership.

When the new owners of the property embarked on refurbishment throughout, a roof inspection by Liverpool consultants E3 Cube found that a roof refurbishment was required to protect the valuable interior of the building.

BBR Roofing were subsequently appointed to carry out the roofing refurbishments according to a schedule of works produced by E3 Cube, and incorporating a specification for the re-roofing of the flat areas using Bauder bituminous materials. Other works which were required included remedial works to slated pitched roofs, restoration of a glass lantern light, extensive lead replacement to roof perimeters and external stonework, and external re-painting of windows.

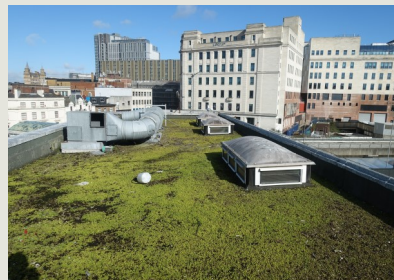
BBR Roofing, as Principal Contractor, set up a site compound in front of the building, in the busy Central Station area of the city, together with full hoardings around the building perimeter. An existing restaurant business operating at ground level within the building required permanent and safe access for its customers, and close liaison with the BBR site supervisor.



The Works

A Bauder bituminous specification including DS1 Duo self-adhesive air-vapour control layer, RUF insulation, BauderTec KSA Duo 35 self-adhesive underlay and Bauder KARAT torch-applied cap sheet was installed over the flat roof areas, overlaying the existing aged covering. The KARAT cap sheet is a particularly robust and heavy-duty cap sheet providing enhanced flexibility, strength and UV resistance.

The existing stone -chipped roof covering had almost become a 'green roof' due to the amount of moss growth within the stone chippings. The new mineral-surfaced roof covering will not suffer from the development of moss.



Above: Remedial works to slate roof, replacement lead to gutters and new roof-windows

Left: Reconstruction of lantern light over domed lobby

The original glass lantern light over the decorative and historical internal dome over the main internal space of the building was stripped apart and new timbers inserted where necessary. New lead-work was added at the base and to form a new cap, and replacement Georgian-wired glass and seals completed the renovation.

On the external stones faces and parapet gutters, new lead was inserted and welded to replace the aged existing lead.

New opening roof-windows were inserted on the pitched roof faces and remedial works carried out to the slate covering, including new lead flashings.

OVERVIEW

CLIENT: The Lyceum

CONSULTANT: E3 Cube, Liverpool

VALUE RANGE: £100-250,000

THE WORKS:

FLAT ROOFS: Bauder BTRS

PITCHED ROOFS: Slate remedials & Replacement roof-lights

GLAZING: Renovation of glass lantern light

LEAD-WORKS Replacement lead-work to gutters, abutments and external stone ledges.

