

VICTORIA & ALBERT MUSEUM, LONDON

Product: Lonsdale Spangard self-supporting rooflight system



Over 700m² of new roof glazing has recently been installed at the Cast Courts gallery at London's Victoria & Albert Museum, as part of a major refurbishment project by main contractor Coniston.

A survey had revealed that the existing tiered vaulted roof was single glazed and many panes had cracked. There was significant heat build-up in the roof area contributing to the problem and the roof had started to fail.

The installation contractor, Roofglaze, was called upon to provide design and installation expertise to maintain the integrity of this historic building.

CASE STUDY 17

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The design team put forward a scheme using an aluminium framed, thermally enhanced patent glazing system by The Lonsdale Metal Company – selected to replicate the existing barrel vault layout of the roof glazing.

The five-tiered barrel vault layout features a dual-pitch lantern at the apex, with vertical glazed infills. The whole structure was fabricated using Lonsdale's Spangard, which is a self-supporting rooflight system.

All sloped surfaces on the new roof glazing were specified as double glazed, hermetically-sealed units with high

performance 6mm solar controlled toughened outer glazing panes and 6.8mm inner panes.

The vertical glazing was specified as 4mm thick clear toughened soft coat Low-E glass.

The glazing bars and aluminium press work have all been polyester powder coated in Iron Grey (RAL 7011), providing an appropriate finish with long-term weatherability.

The box rafter construction of the Spangard system allows invisible fixings and a low-profile appearance that is important in refurbishment applications like this.



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