

# Fragile Roof-lights, Wigmore Hall - Scheme and Detailed Design

## The Problem/Challenge

To refurbish and modify existing fragile roof lights in a listed concert hall building whilst enhancing the accessibility for cleaning and lighting maintenance access, with no appreciable effect on the hall acoustics or aesthetics.

## The Risks

Falls from height during construction and maintenance operations.

## The Solution

The hall was fully “birdcage” scaffolded during construction. This allowed removal of existing cramped crawl-ways and the installation of a new lightweight central spine walkway. This facilitated maintenance access to the lights for performances and general hall lighting within the roof space.

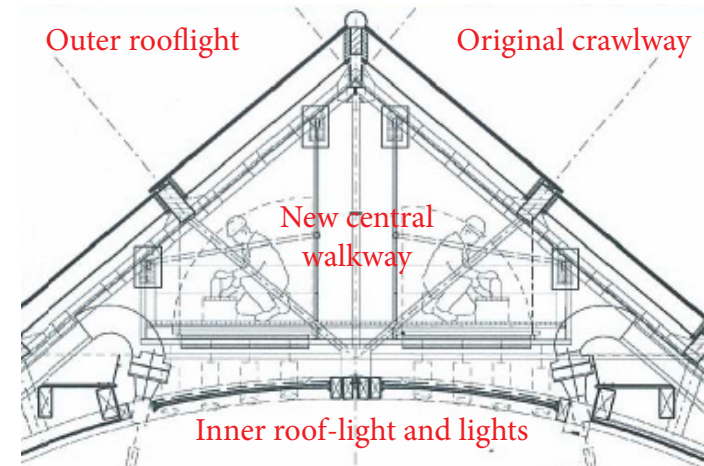
## The Benefits

Significant improvements in accessibility and safety of maintenance operatives. Retention and upgrading of an historic and fragile roof light feature.

## Key Points

Early analysis of the structural limitations of the roof truss and walls. Access requirements for A/C services and lighting requirements understood through discussions with users and consultants.

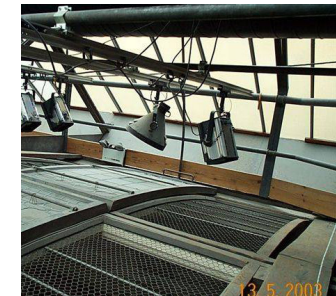
Buildability issues raised at the beginning of the project through specialist consultation.



Roof services, roof light and access analysis



Inner roof light above auditorium



Original roof-space



Revised roof-space