

# Fragile Domed Rooflight Refurbishment



## The Problem / Challenge

To refurbish the existing stained glass fragile domed roof-light to prevent water ingress and allowing backlit illumination.

## The Risks

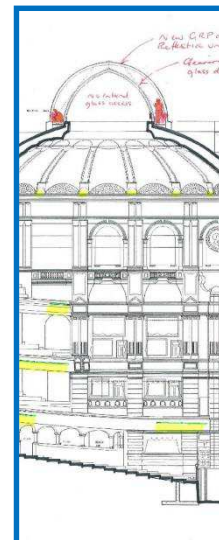
Falls from height during the construction. Falls of people or objects during the maintenance and cleaning of the stained glass panels.



*Curved Rotating Ladder + Slide-lock*



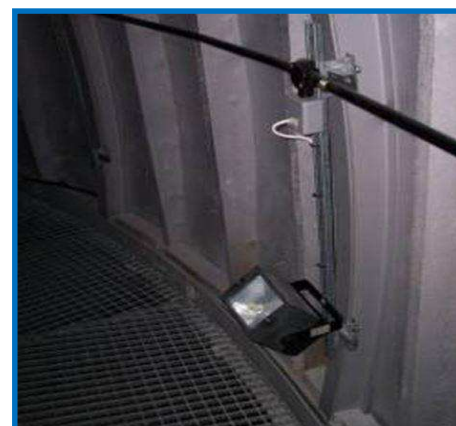
*Rooflight from Below*



*7-storey Auditorium with Dome & Rooflight*

## The Solution

- A glass fibre outer dome was installed by crane for weatherproofing.
- The inner glass domed roof-light was repaired from a birdcage scaffold within the auditorium.
- Maintenance walkway installed between the two domes with a high level fall restraint cable fixed to the outer dome.
- Access to the upper curved areas of glass is via a curved ladder gantry with a slidelock harness attachment.
- Easily accessed light fittings fitted at low walkway level reflect off the underside of the outer dome to illuminate the rooflight.



*Walkway & Up-Light*

## The Benefits

The client has been able to reinstate a spectacular roof-light feature whilst overcoming the weatherproofing and significant maintenance safety challenges.

## Key Points

- Specialist design subcontractors consulted early .
- Communication with the Client and FM team essential in agreeing strategy and budget at early stage by annotation of drawings.
- A combination of fall prevention methods were carefully selected, each justified in respect of the hierarchy of control measures.

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