



Sunlight house

Installation of Panels

Summary

The reinstatement of the glazed panels will be carried out in a carefully sequenced manner, working systematically from the top of the dome downwards.

Each panel, previously surveyed, labelled, and refurbished, will be returned to site in protective racking and delivered to the work platform in manageable batches. Installation will be undertaken by a minimum of two skilled operatives, working together to carefully lift each panel into position. Panels will then be scribed to the opening to ensure the best possible fit within the original steel framework.

Each tier will be fully completed and carefully positioned prior to tying the leaded lights into place. Fixing will then be achieved using soldered copper ties attached directly to the lead comes of the panels, which are securely tied onto the pre-positioned saddle bars. Once fixed, the copper ties are twisted, cut, and folded back neatly against the steel frame to ensure a tight and secure finish.

It should be noted that while every effort will be made to achieve accurate alignment across the tiers, in some areas this may not be possible. Where original glass has been reused, slight historic misalignments may remain, as preservation of original material has been given priority over cosmetic adjustment.



1. Reinstatement Process / Sequence of Works

- Panels will be packed for transport on the morning of installation to minimise handling and risk of damage.
- Panels will be transported to site and delivered directly for installation on the same day.
- On arrival, panels will be carefully unloaded and placed on secure racks close to the work area.
- Works will progress from the top of each elevation downward, following a controlled sequence.
- Each panel will be carefully lifted into position using manual handling techniques suitable for fragile glass.
- Following this, each window will then be scribed into the opening to achieve the best possible fit.
- Panels will be aligned to their designated openings based on the agreed labelling system.
- Once positioned, panels will be secured within the frame using copper ties where required.

2. Materials and Techniques

- All glazing will be reinstated using dry glazing methods in line with the original installation (no putty).
- Copper fixings will be used where required to ensure a discreet, durable, and traditional fixing.
- Works will be carried out with great care, using traditional hand tools and conservation-led techniques to respect the historic fabric of the building.

3. Method for Securing Glass Panels

- Side and head clearance will be maintained to prevent undue stress on the glass.
- Where required, panels will be fixed in place with copper ties, which will be twisted, cut, and folded back against the steel frame to ensure a discreet and durable fixing.
- All works will be reversible to ensure future conservation requirements can be met.



4. Reinstatement to Original Locations

- Each panel has retained its original identification sticker, applied prior to removal. This ensures that every unit can be accurately matched to its designated location in accordance with the layout drawings and elevation schedule.
- During reinstatement, panels will be cross-checked against this labelling system and installed back into their exact positions.

5. Timescales for Reinstatement

Total number of panels: 188.

Target output: 30–40 panels per day, dependent on panel size and site conditions.

Total installation period: 5–8 days.