

Library Enhancement Works Muswell Hill Library Queen's Avenue,

Muswell Hill. London. N10 3PF

Design intention for the detailing of junctions between the proposed glazed structure and the side elevation of the existing listed library

Trombe Ltd have a longstanding history of designing and building structurally glazed structures adjacent to and abutting listed buildings. Many examples can be seen on our website.

Our aim is always to be sympathetic in our design approach and minimize the impact on the historic fabric of the building whilst ensuring a structurally sound and watertight junction.

The proposed junction detail with the existing façade would be to mechanically fix a glazing support angle direct to the face of the wall. This continuous angle would be resin fixed in accordance with the structurally engineer's specification. The glazing support angle would be no more than 50mm wide to provide a minimal impact on the existing wall.

Generally, when working with listed buildings the walls are uneven compared to modern construction. Prior to ordering materials a digital survey of the existing wall would be undertaken to size the glass panels appropriately to ensure that junction sightlines are kept to a minimum.

If the existing walls are deemed to be uneven rather than cutting into existing wall the glazing support angle would be packed out to the furthest point. The glass would then be structurally bonded to the glazing support angle.

For any remaining variations between the existing facade and the new structure a cosmetic 2mm polyester powder-coated aluminium flashing would be installed to cover the glazing support angle both internally and externally. The vertical and internal aluminium pressings would be scribed to the face of the existing wall and silicone jointed.

For the roof flashings it would require two 2mm thick polyester powder-coated aluminium L-shaped profiles. One base pressing that would be bonded to the surface of the glass and one face to run up the face of the existing wall. The secondary L-shaped pressing would be reversed and requires a chase line into the existing wall. The two L-shaped profiles will form a Z-shape and will be around 150mm high. These flashing profiles will ensure a waterproof junction between the existing building and the roof of the proposed glazed structure.



Andrew Sale
Architect & Director
07788299527
andrew@trombe.co.uk