

# Handling Heavy Glass Screens – Design Considerations

## The Problem / Challenge

Heavy internal glass screens, specifically required by the designer and client needed to be brought into the building and installed, avoiding manual handling.

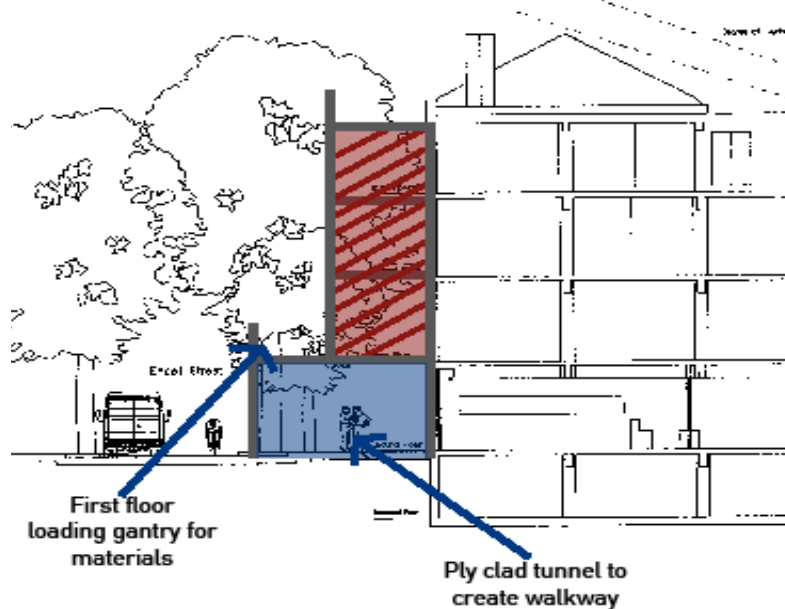
## The Risks

There was a significant risk of musculo-skeletal injuries resulting from manual handling. A failure to identify problem items like the screens during the design process could have led to additional cost and programme delay.

## The Solution

The team investigated but discounted the feasibility of substituting lighter materials, for instance smaller components that could be demounted and re-assembled on site.

The position of the heavy elements was identified at tender stage and the access routes planned, indicating vertical and horizontal transportation routes



Vertical access route

## The Benefits

The glazing installation was achieved without causing injury, delay or increased cost.



Potential Mechanical Handling aids

## Key Points

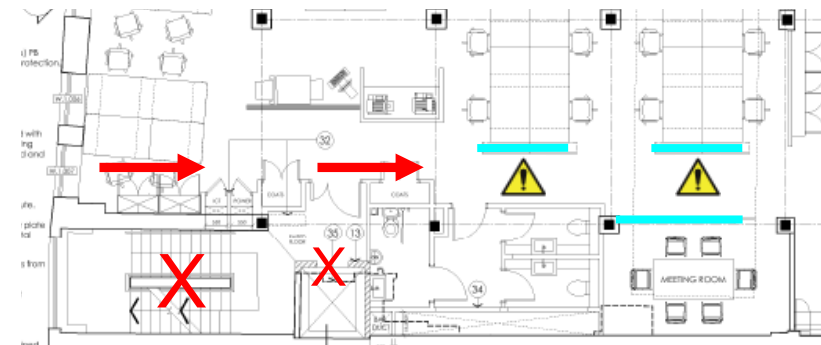
The designer considered substitution for lighter or smaller elements.

Drawings were used to identify areas where heavy components were to be located, in this case by simple symbols with explanatory notes.

The component access routes were carefully assessed in consultation with the contractor.

The proposals for installation were requested at tender.

A plan was drawn up to show how future replacement access might be achieved and placed in the health and safety file.



Access route shown and final locations