



**ST THOMAS HOSPITAL**

## Reference

### London, United Kingdom

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## General:

### Concept/Product:

**Building Type:** Hospital

**Client** Guy's and St. Thomas NHS Foundation Trust

**Architecture** Hopkins Architects Partnership LLP

**Completion:** 2015

## Description:

The East Wing building at St Thomas Hospital, located opposite the Houses of Parliament, is a well-known landmark at the South Bank. The thirteen-storey tower suffered from water ingress problems, excessive solar gain and inadequate lift capacity. In order to improve the situation, an architectural concept was set up by adding two additional atrium structures comprising a bearing steel structure and cladding with laminated glass panels.

Lindner Steel & Glass was contracted for the atrium construction by main contractor ISG. The architectural focus was set on creating a sense of transparency, openness and lightness. This effect was achieved by installing a floating steel & glass structure with the load-bearing structure of the Atrium Facade (2950 sqm) consisting of horizontal trusses for wind load and a framework over the entire height of the structure for vertical loads - only supported by a Y-column and stabilized by an additional single column. The steel framework, built up tension rods as diagonals and RHS-profiles as verticals, is directly glazed using a structural silicone fixation for wind loads. The Atrium Roof consists of a diamond steel structure with prefabricated segments, connected with bolts on site.

## Completed Works:

### Steel and Glass

Custom Solutions





