



## The Structural Steel Design Awards 2009

This Certificate is presented to  
**Stephens & James**  
Main Contractor for  
The Weather Room  
Monken Hadley  
which received a Certificate of Merit for  
the high standard of design achieved

The Structural Steel Design Awards 2009  
are sponsored by Corus and  
The British Constructional Steelwork Association Ltd

President  
The British Constructional Steelwork Association Ltd

Chief Executive Officer  
Corus and Tata Steel Europe

# CERTIFICATE OF MERIT

## THE WEATHER ROOM, MONKEN HADLEY

ARCHITECT - LIDDICOAT & GOLDHILL  
STRUCTURAL ENGINEER - LYONS O'NEILL  
STEELWORK CONTRACTOR - GOODALL SERVICES  
MAIN CONTRACTOR - STEPHENS & JAMES  
CLIENT - DR & MRS D R GOLDHILL



White Lodge is a Grade II-listed house in Monken Hadley, North London. The oldest parts date to the 17th Century, and inchoate additions and alterations have taken place periodically ever since. The Weather Room is the latest layer added to this historic building. The brief was to reunite disconnected wings of the house and open the building to its extensive gardens.

The form of the new space was dictated by the strictures of working on a listed building in a very tightly controlled Conservation Area. The detail of the construction became the focus, and a close working relationship developed between the architect, the contractor, the engineer and the steelwork contractor. Much time was spent at the steelwork contractor's workshop, where each component and connection was drawn, prototyped and refined.

The structure of the room is simple; powder-coated steel glazing bars form a portal frame which supports the structural double-glazing over. Steel was chosen to allow very fine (45mm) sight lines through to the garden, while still being capable of bearing people and scaffolding on the roof to allow maintenance of the windows and roofs above.

The glazing bars were hand-made by welding a 'sandwich' of bright steel flats together. A narrow rebate was created to the inside of the bars, allowing installation of an adhesive LED light tape. This highly-efficient, low-energy lighting system solved the conundrum of providing even, atmospheric light in a space with a glazed ceiling without obtrusive luminaries. The resultant effect is of warm ribbons of light glowing from the sharp edge of the steel.

The interior is tempered by the external condition; the structure plays a crucial role in this relationship. By day, it animates the space through the play of light and shadow from the glass and steel flats. As night falls, concealed blades of light within the steel succeed the sun and the space develops an entirely different character.

### judges' comment

An elegant gem used for connecting parts of a listed building, and for dining purposes. The light, plated steel frames each carry glazing and LED lighting along the beams and columns in a fully integrated way.

An excellent small example of a sensitive modern addition to an historic setting.