

Bellapart

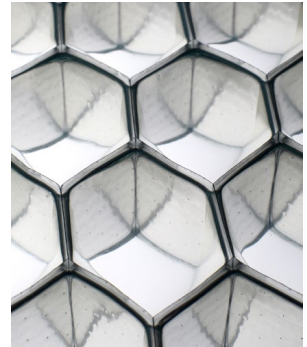


The Berkeley Hotel

Bellapart

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THE BERKELEY HOTEL

The ground floor of The Berkeley hotel in Knightsbridge, London, was refurbished in the first half of 2016. The Works included the construction of a new entrance canopy and glass pavillion designed by Rogers Stirk Harbour and Partners in collaboration with Expedition and Arup.

The pavillion consists in a 30 x 10 metres glazed roof covering both the entrance area and the extensions of the Blue Bar

and Collins Room, both clad with glass walls.

The structure of the pavillion consists in sixteen free-form carbon fibre reinforced polymer (CFRP) beams, measuring 10 metres in length, that are connected to the building at one end and to a stainless steel column at their mid point, thus creating a 4.5 metres cantilever over the car stop. In the entrance area, the SS columns are replaced by a 9.5 metres

long truss formed by two stainless steel chords and a set of V-shaped CFRP brackets acting as diagonal members.

Bracing is provided by the glazed roof and walls, which are composed of a set of glass-honeycomb sandwich panels with a size up to 4.8x2.3 metres. These panels consist in two sheets of glass structurally bonded to an aluminium honeycomb core by means of a continuous layer of UV-

curing transparent acrylic adhesive, thus creating a true structural composite panel with a peculiar translucent look.

Owner
The Berkeley
Architect
Rogers Stirk Harbour + Partners
Engineer
Arup + Expedition
Project & Construction manager
Rainey & Best
Engineering & Construction
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