



62 Buckingham Gate by Pelli Clarke Pelli and Swanke Hayden Connell Architects

Forming part of the £2bn redevelopment of Land Securities' portfolio in Victoria, London, 62 Buckingham Gate provides 25,500 square metres of office space and 1550 square metres of retail space. Designed by Pelli Clarke Pelli Architects and Swanke Hayden Connell Architects, the building's folded glass envelope accommodates complex demands relating to daylighting, massing, and views, while turning the prominent corner site into an 'urban jewel'.

The facades comprise 11 tilted unitised curtain wall planes, fixed to a concrete superstructure incorporating post-tensioned floor slabs. The sealed double-glazed units have a slightly reflective solar-control coating providing a g-value of 0.27 and U-value of 1.1W/m²K. Matching sealed double-glazed spandrel panels create a uniform appearance. The glass surface is modulated by bands of anodised bronze, resulting in a subtle colouration across the facade. This is intended to complement an adjacent listed building and the wider Edwardian context.

The office planning grid is orthogonal to the core, with partitions running perpendicular to the curtain wall. The inclined mullions and transoms are trapezoidal, which ensures alignment of the planning grid and curtain wall mullions.

The fold lines where adjacent facets meet are constructed as jointless three-dimensional units to maintain high levels of performance. The setting out of facets and fold lines is determined by the building geometry, making each unit on every fold unique. Level one on Victoria Street, for example

incorporates four facets and three converging fold lines. Complex units such as these required bespoke five-axis machining and were built off the main production line to ensure the highest possible level of factory fabrication.

Project team
Architect: Pelli Clarke Pelli Architects, Swanke Hayden Connell Architects; structure: Pell Frischmann; services: WSP Buildings; qs: EC Harris; facade engineer: Interface Facade Engineering; contractor: Sir Robert McAlpine; developer: Land Securities; photo: Hufton & Crow.

Selected suppliers and subcontractors
Glazing: Saint-Gobain Glass; facade contractor: Lindner Facades; roof louvres, internal blinds: Levulux.

interface
facade engineering

Facade engineering expertise on
62 Buckingham Gate

Dedicated facade design, analysis and extensive specialist knowledge to architects, developers and main contractors.



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