

K1 Knightsbridge

London, UK



Case Study



Property Owner

The Olayan Group



Main Contractor

Skanska



Structural Engineer

Waterman Structures Ltd



Architect

Fletcher Priest Architects



Acoustic Consultant

Vanguardia & Rupert Taylor

OVERVIEW

K1 Knightsbridge is a mixed-use development in Knightsbridge, London SW1.

The 340,000 sq ft (31,600 m²) project comprises high-end retail and office space, 35 residential units and a new rooftop restaurant in the Royal Borough of Kensington and Chelsea.

The development sits on the corner of Brompton Road and Sloane Street in Knightsbridge. Opposite to Mandarin Oriental and One Hyde Park and next to Harvey Nichols. It is directly adjacent to the Piccadilly Line underground train line.

Stravibase CDM-VHS

- Isolate buildings from vibration and structure-borne noise caused by trains or trams running nearby or underneath buildings
- Designed to support very large loads whilst being significantly smaller in plan dimensions than traditional elastomer bearings



SOLUTION

To achieve acceptable structure-borne noise levels within the residential element of the project, 10Hz bearings were specified on top of the first floor columns.

CDM Stravitec designed and installed the entire bearing assembly including top and bottom steel plates, disproportionate collapse and fail-safe details.

Every bearing can be replaced using our patented Frozen Bearing Technology (FBT).

10 Hz

Stravibase VHS
5 Layers | Fail-Safe
83 MN

