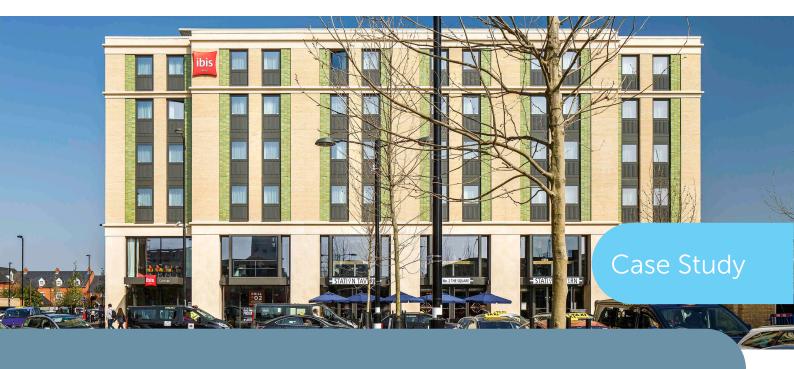
CB1 Ibis Hotel Cambridge, UK







Property Owner

Ibis Hotel



Main Contractor

Galliford Try



Structural Engineer

Mott MacDonald



Architect

Formation Architects



Acoustic Consultant

Hilson Moran

Stravibase VHS

- Isolate buildings from vibration and structureborne 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

OVERVIEW

The new Ibis Hotel in the Cambridge CB1 development is right next to the mainline station where several freight trains pass through during the night.



SOLUTION

To minimise disturbance to occupants from structureborne noise the acoustic consultants, Hilson Moran, specified the building to be isolated on 8Hz bearings.

Stravibase VHS bearings, which are capable of supporting very high loads on a small bearing footprint, were used to support the main columns; thereby minimising the column baseplate size.

8Hz Stravibase SEB bearings were used to support the cores and the ends of the perimeter beams. The remainder of the perimeter beams had Stravifloor Deck rails to support the permanently isolated formwork.

8 Hz Stravibase SEB 22 MN (cores) 8 Hz
Stravibase SEB
5 MN
(beams)

8Hz Stravibase VHS 104 MN 480 m²
50 mm
Perimeter
Isolation

