

BBC W1 Technical Boxes

London, UK



Case Study



Property Owner

Land Securities / BBC



Main Contractor

Bovis LendLease



Structural Engineer

Ramboll



Architect

Sheppard Robson



Acoustic Consultant

Applied Acoustic Design

OVERVIEW

The enormous redevelopment of the site around Broadcasting House is due for completion in 2010. The new buildings are situated between the Bakerloo and Victoria underground lines and the tube trains are clearly audible in all the buildings.

Stravifloor Deck

- High-performance floating floor system for concrete and light wooden construction
- Allows for large support spans



SOLUTION

To protect the Technical Boxes from structure-borne noise each one was built off a concrete floating floor. The construction of the floating floors depended on the location within the building: in the basement the floors were 125 mm concrete on 100 mm void supported by bearings with a natural frequency of <8Hz.

On the ground floor the floors were 90 mm concrete on 100 mm void; the 2nd floor was 90 mm concrete on 75 mm void and the 3rd and 4th floors 90mm concrete on 50 mm void.

AT A GLANCE

BENEFITS

- Lightweight & low-profile system
- Complete 'turnkey' solution
- Quick and easy to install

1500 m²

Stravifloor Deck
49 Studios

