

BBC Broadcasting House



Box-in-Box construction

CDM-ISO-MONT-100

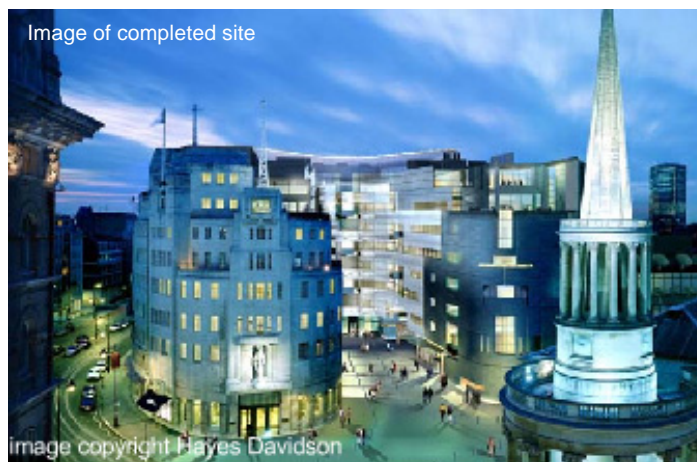


Image of completed site

image copyright Hayes Davidson

Client	BBC
Main Contractor	Bovis LendLease
Architect	McCormac Jamieson Pritchard
Acoustic Consultant	Bickerdike Allen Partnership
Structural Engineer	Whitby Bird & Partners
Area	800m²

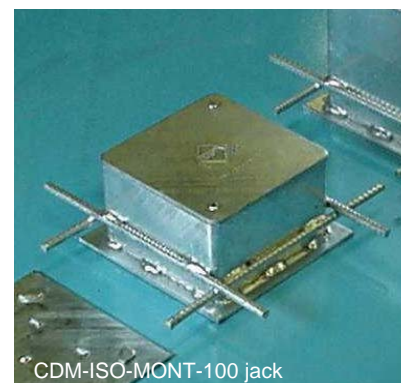
Broadcasting House is located on Portland Place, just north of Oxford Circus in the heart of London's West End. The existing building is situated between the Bakerloo and Victoria Underground lines and the building has long suffered from re-radiated noise from trains passing by. As part of BBC's huge redevelopment of the site the existing building has been undergoing a massive refurbishment.



The site in November 2003.

To protect the new studios from underground railway noise, and to minimise the overall height of the isolation system, a jack-up floating floor system was specified.

CDM-ISO-MONT jack-up floating floor system offered a solution that allowed the jacks to be located inside the sound insulation shell of the studio, therefore allowing the studio to be jacked up either before or after the shell was constructed.



CDM-ISO-MONT-100 jack

The system also offered the flexibility over other systems that the bearings could be replaced at a later date should the function of the room change or if the performance needed to be improved.

The slab consisted of 90mm reinforced concrete with a 45mm void beneath. The air void beneath the floor was left vented therefore allowing the 7Hz natural frequency of the bearings to be realised as a system performance.

When the new development is complete Broadcasting House will become the focal point of BBC's headquarters.



Jack layout in studio



Jack with reinforcement



The centre of the new development

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CASE STUDY – CDM-ISO-BOX

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