



Client	BBC
Main Contractor	Bovis Lendlease
Architect	McCormac Jamieson Pritchard
Acoustic Consultant	Bickerdike Allen
Structural Engineer	Whitby Bird (now Ramboll)
Details	20 Radio Studios: 587m²

• 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.

• 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.

• 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.



BBC Broadcasting House



CDM-MONT jacks



Joint in between two floors



CDM-MONT jack with reinforcement

Building

Project Reference