

# BBC Workshops

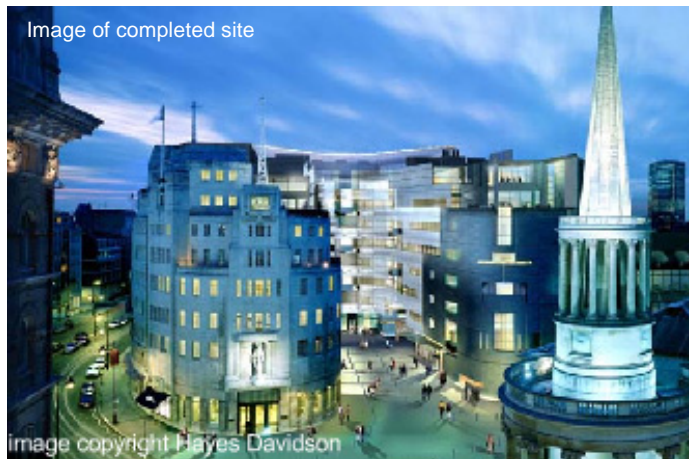


50mm floating floor  
CDM-ISO-LAT-SPECIAL



**Client** BBC  
**Main Contractor** Bovis LendLease  
**Architect** McCormac Jamieson Pritchard  
**Acoustic Consultant** Bickerdike Allen Partnership  
**Structural Engineer** Whitby Bird & Partners  
**Area** 4 Rooms totalling 130m<sup>2</sup>

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 workshops, although not the most noise sensitive spaces in the building, still require low levels of intrusive noise from trains. However architecturally there was only an 80mm zone in which to fit the floating floor.

The proposed solution consisted of a 50mm thick concrete floating floor on 30mm thick bearings which were chosen to meet the overall performance criteria of <20Hz (including for the stiffness of the trapped air layer).

The floating floor was constructed using CDM-ISO-LAT-SPECIAL rails and special overlapping/interlocking metal decking. Due to the poor tolerance of the supporting floor all of the isolation rails had to be shimmed to form a completely level formwork tray.

The entire workshop room structure was supported off the 50mm floating floor and additional bearings were inserted where the slab was carrying high imposed loads. The structure for the door support was also cleverly integrated into the floating floor construction to give it the required strength to support the door and all of the heavy equipment being moved into and out of the room.



## CASE STUDY – CDM-ISO-FLOOR

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