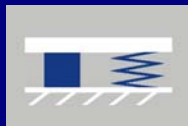


BBC Mailbox, Birmingham



Floating Floor
CDM-ISO-LAT-SPECIAL



Main Contractor
Architect
Acoustic Consultant
Partner
Area

Interior PLC
BDP
BDP Acoustics
Industrial Acoustics Company
400m²

BBC's new Birmingham home will be part of the Mailbox development new New Street Station. The new offices and broadcast facilities are seamlessly integrated into the already bustling Mailbox shopping centre.

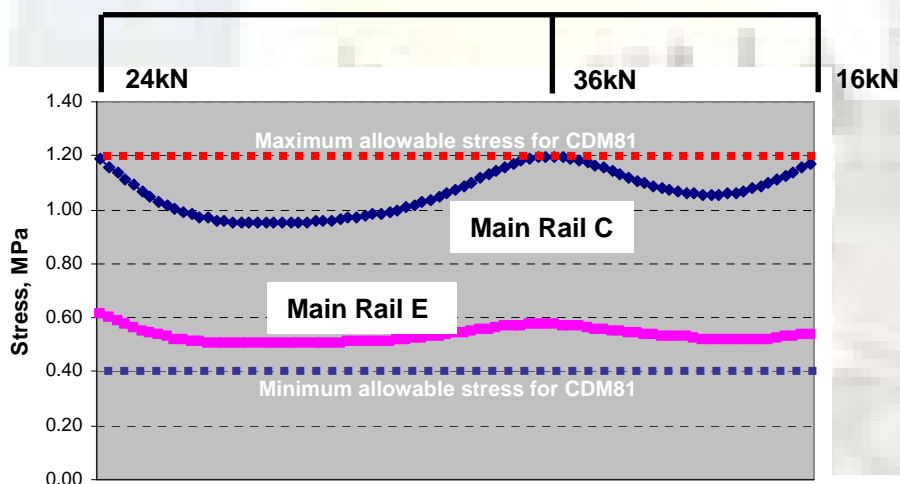


CDM-UK were contracted by The Industrial Acoustics Company to design, manufacture and supply the floating floors to the broadcast Drama and TV studios in this prestigious project. The major difficulty with the design, however, was that the studio floors could only be supported at 3m centres and have an overall height of 200mm from the supporting floor.

CDM-UK developed the ISO-LAT-SPECIAL system with composite decking to allow the 3m spans to be achieved. The system also was designed to take the studio constructions, which included heavy point loads from columns and line loads from internal walls.



Portal frame



To provide BDP with the imposed loads on the supporting structure a finite element analysis was carried out on the floating slab. The results showed that the installed floating slab could take all of the imposed loads and that the stresses in the bearings were within the allowable limits for creep.

The performance of the completed studios was so good that it was not possible to hear or measure noise from a tapping machine from one studio to another.

CASE STUDY – CDM-ISO-FLOOR

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