

Centre for Auditory Research



Box-in-Box construction

CDM-ISO-LAT, CDM-ISO-FLOAT-CHR



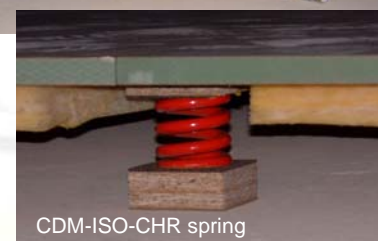
Client
Main Contractor
Architect
Acoustic Consultant
Structural Engineer
Partner
Area

University College London
Willmott Dixon
Watkins Gray International
WSP Consulting Engineers
Martin Stockley Associates
Industrial Acoustics Company
CDM-ISO-FLOAT-CHR 6 rooms = 65m²
CDM-ISO-LAT = 600m²

The new Centre for Auditory Research is part of University College London. The new development is directly connected to University College Hospital on Grays Inn Road, very near to Kings Cross in the heart of London.

The project includes 5 small Auditory Research laboratories and a larger Anechoic Chamber. The acoustic specification for these rooms was stringent and called for the studios to be built using 200mm CDM-ISO-FLOAT-CHR floating slabs supported on 4Hz springs. On top of these slabs the internal metal panel box was built and each room was then surrounded by another metal panel structure followed by an external blockwork sound insulation shell.

The entrance to each room consists of 3 doors, one in the outer blockwork shell and a linked door connecting the inner two metal panel constructions. The resulting box-in-box-in-box construction therefore offers the maximum sound insulation and vibration isolation protection from other activities occurring in the remainder of the building.



The other less sensitive laboratories were protected from other areas of the building using a 100mm concrete CDM-ISO-LAT-50 floating slab. All internal constructions were built off the floating slab therefore creating fully isolated box-in-box constructions.



CASE STUDY – CDM-ISO-BOX

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