

Westminster School



Concrete Floating Floor CDM-ISO-LAT



Client Westminster School
Main Contractor SAMES Ltd
Architect Maber Associates
Acoustic Consultant Arup Acoustics
Structural Engineer Ove Arup
Photographs by Peter Grant
Area 16 Music Practice Rooms 262m²

Westminster School's new Manoukian Music Centre is in Tufton Street, just around the corner from the Houses of Parliament in the heart of London. This high performance building contains an auditorium and 16 Music Practice rooms of various sizes.

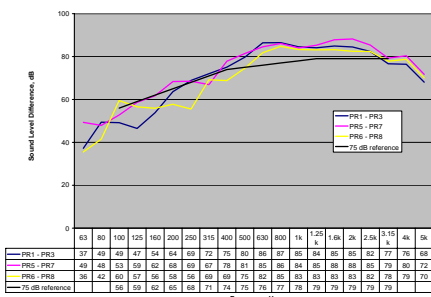
The brief for the building was to provide as much flexibility as possible, allowing adjacent Music Practice rooms to be used simultaneously without causing disturbance.

Arup Acoustics specified that each Music Practice Room needed to be installed on it's own concrete floating floor, with the wall and ceiling structures supported off the floors to form high performance box-in-box constructions.



CDM-UK installed the CDM-ISO-LAT-50 system with bearing natural frequencies of less than 7Hz. Stiffer bearings were installed around the perimeter of each floor to support the weight of the heavy blockwork walls and ceilings.

The sound insulation performance between Music Practice Rooms was measured as high as $D_{n,t,w}$ 79dB which provided excellent separation between rooms.



CASE STUDY – CDM-ISO-FLOOR

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