

SportCity



Structural Isolation

CDM-ISO-SEB - Simple Elastomer Bearings



Client	Countryside Properties
Main Contractor	Countryside Properties
Architect	Countryside Properties
Structural Engineer	Sinclair Knight Merz
Acoustic Consultant	Hepworth Acoustics
Weight	61MN

SportCity is a new luxury residential development directly adjacent to the City of Manchester Stadium, the main venue for the 2003 Commonwealth Games.

The main road in between the development and the stadium is the site for a proposed extension to Manchester Metrolink. The trains will run within 7m of the new building and the acoustic consultants specified that the building had to be isolated on 10Hz bearings for the re-radiated noise in the new flats not to cause a disturbance.



3 no. bearings grouted to the top of the ground beam

The bearings were grouted to the top of the ground beam ensuring that they were flat and level. Polystyrene was then used to form the temporary formwork for the concrete above and another network of beams was poured. The polystyrene was then removed to ensure that there was a clean vibration cut.

The building was then constructed using traditional methods.



A bearing in the vibration cut



CASE STUDY – CDM-ISO-STRUCTURE

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