

Navigation Street



Structural Isolation

CDM-ISO-SEB - Simple Elastomer Bearings



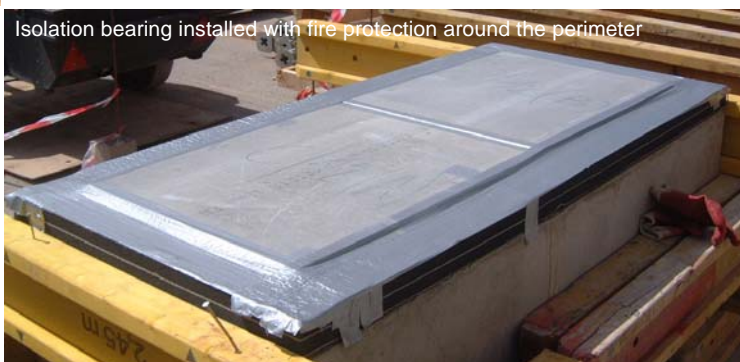
Client Crosby Homes
Main Contractor Taylor Woodrow
Architect BLB Architects
Structural Engineer BWB Consulting
Acoustic Consultant Hoare Lea Acoustics
Weight 132MN

Navigation Street is a large residential building directly adjacent to Birmingham New Street railway station. The acoustic consultants assessed that noise levels in the living spaces of the new apartments would exceed the planning requirements set by Birmingham City Council.

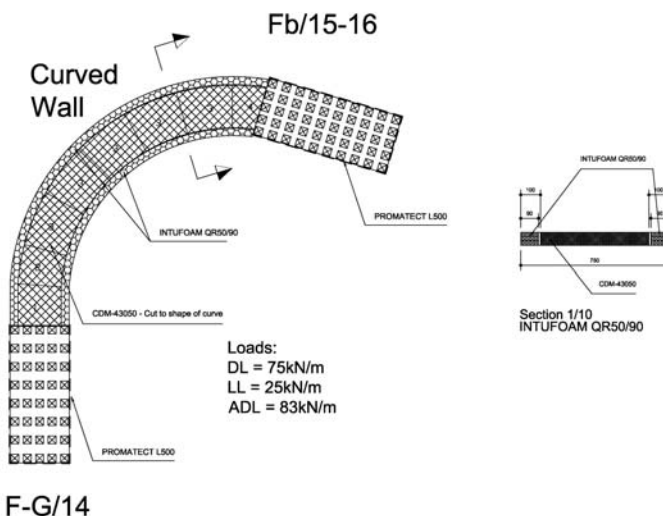
To resolve this problem 1/3 of the overall building is built off 14Hz elastomeric isolation pads by CDM-UK.

The main column bearings were located just under first floor level with the isolation for the main service cores being at foundation level. The fire protection for the bearings was a soft material with intumescent strips, which enabled it to be installed as permanent formwork for the concrete, thus creating a neat and quick solution.

CDM-UK supplied all of the isolation material and developed the design along with the architect, acoustic consultant and main contractor.



There were many different solutions required for the differing support conditions. For instance the drawing below shows a curved wall isolation support detail.



CASE STUDY – CDM-ISO-STRUCTURE

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