

## West Hampstead Square

Complete

Area

Clients

Architect

2016

UK England

Ballymore Group

Whittam Cox Architects

Network Rail

West Hampstead Square is a mixed-use development located on a former brownfield site in the vibrant and affluent north-west neighbourhood of the same name. The new build contains 198 new apartments comprised of private and affordable housing, commercial retail units ranging from five to twelve storeys, office units and 2600 sq. ft. of leisure space.



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The design revolved on three fundamental concepts: interconnected square, street and gardens allowing for themed zones, gardens and supermarket to serve the residents and local public. The square provides an entry point to the seven buildings that are also connected with a network of private laneways and gardens.

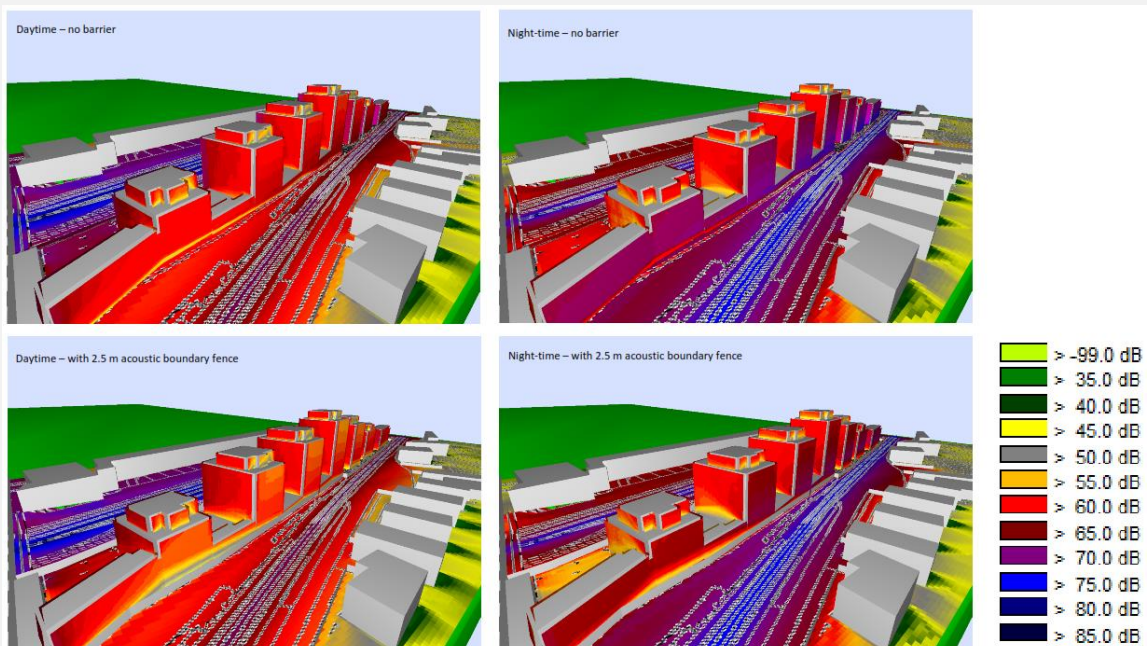
The linear patterns of the two railway lines at West Hampstead Underground and Overground stations served as inspiration for the design of the site. This simultaneously presented interesting acoustic challenges requiring extensive noise and vibration surveys to quantify the unique site conditions.



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Considering the shape and size of the residential blocks, a 3D computer noise model of the site was created. The model was then used to calculate the sound insulation requirements of the facade, so that appropriate internal noise levels were achieved.

Sandy Brown worked with the structural engineers in developing a strategy of isolating the building's foundations. This was necessary to mitigate vibration and structure-borne noise caused primarily by passing freight trains.



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