

<b>Architect</b>	<b>Jestico &amp; Whiles</b>
<b>Main Contractor</b>	<b>Neilcott</b>
<b>Structural Engineer</b>	<b>Whitby Bird (now Ramboll)</b>
<b>Acoustic Consultant</b>	<b>Bickerdike Allen Partnership</b>
<b>Acoustic Design Lead</b>	<b>21MN</b>

Prime House is a 3-storey apartment block that is located directly on top of a railway line adjacent to Finchley & Frognal Station on the Finchley Road in London.

To control levels of vibration and re-radiated noise in the new building acoustic consultants, Bickerdike Allen Partners, specified that the building had to be supported on pre-compressed spring boxes with a natural frequency of 3.5Hz. CDM-ISO-CHR-BOX pre-compressed spring boxes were chosen to fulfill all the requirements of the specification.

As the railway line was covered by a suspended structure the whole building base had to span across the railway line. This was achieved by a massive post-tensioned concrete slab supported at each end by the pre-compressed spring boxes.



Prime House during construction



Checking the bolts have been released



Pre-compressed spring boxes being placed on foundation



Post-tensioned elements



Pre-compressed springs supporting structure