

Bill Boley Project Profile

Total Solutions in Controlled Hydraulic Movement and Jacking

Project Designation/ Location

To jack up the new Kingsgate House in Victoria Street, Central London to allow fitting of special anti-vibration pads. The **25,000 tonne building**, comprising two 14 storey blocks, stands above the Circle and District Underground Lines.

Client

Careys plc



End Customer

Land Securities



Project Challenge

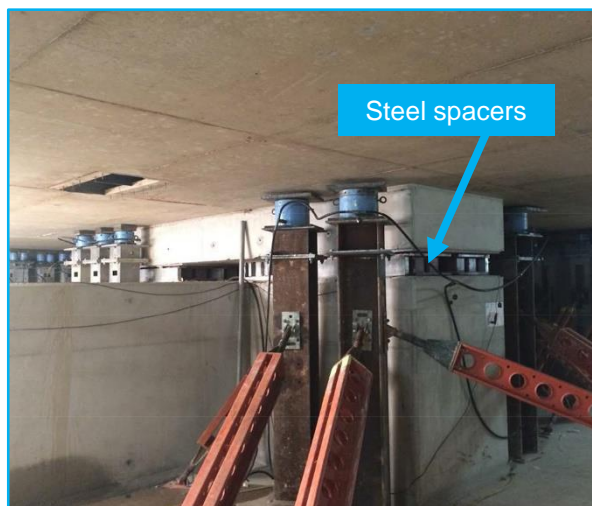
The original anti-vibration bearings did not meet pre-test specification and therefore the building was built on solid piers with steel spacers in place of the bearings. Once constructed, the complete **25,000 tonne building** needed to be jacked up to replace the steel spacers with the new rubber bearings. **Calculating where to put the jacks was crucial to the success of this project.**

Bill Boley Solution

This four month project involved the installation and operation of: **40 off 300 ton jacks - 40 off 160 ton jacks - 60 off 80 ton jacks**. All the hydraulic jacks were fitted to a series of complex special steel supports. The jacking operation was computer controlled to ensure ultimate precision and prevent any damage to the structure as it was lifted incrementally to allow the steel spacers (see below) to be removed and replaced with the rubber bearings.



Additional Images



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"Controlled Hydraulic Movement"