

# Case Study - Regupol RAV100 Structural Isolation



## Paddington Central

<b>Client</b>	Paddington Central
<b>Contractor</b>	Byrne Bros (Formwork)
<b>Acoustic Consultant</b>	Rupert Taylor
<b>Area</b>	4,200m <sup>2</sup>

### In brief

Regupol RAV100 was selected to isolate the concrete foundations of an eight-metre high podium deck from ground borne vibrations at Paddington Central - a new business, retail and residential district in central London.

### Project scope

To prevent train generated ground borne vibrations from entering into the main building structure, the acoustic consultant specified that the podium deck be isolated with a high performing anti-vibration material. This was crucial in order to eliminate structural noise and potential damage to the concrete foundations from trains soon to operate on the new CrossRail track running directly beneath.

Speed of installation of the anti-vibration system was critical as future Paddington Central phases had to be completed around CrossRail works.

CMS Vibrations recommended Regupol RAV100, a heavy duty slab isolation system with a maximum load bearing capacity of 5000kg/m<sup>2</sup>.

### Benefits

- Quick and easy to install
- Material thickness of 17mm
- Supplied in easy to lay rolls
- Fully recyclable
- Independently tested by the Institute of Structural Dynamics at the Technical University of Dresden, Germany



Regupol RAV100 was installed beneath concrete foundations to provide protection from ground borne vibrations



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