

# Riverbank House, London, UK

CDM-MACHINE-FLOAT



**Client**  
**Main Contractor**  
**Design Architect**  
**Executive Architect**  
**Acoustic Consultant**  
**Structural Engineer**  
**Details**

**Pace Investments**  
**Sir Robert McAlpine**  
**David Walker Architects**  
**EPR Architects**  
**Arup Acoustics**  
**Ove Arup & Partners**  
**11 inertia bases = 663m<sup>2</sup>**

• Riverbank House is a new high-spec office development overlooking the North bank of the Thames between Southwark and London Bridge.

• On the roof of this relatively lightweight, long-span structure building are located four diesel stand-by generators, each weighing 67 tonnes, three cooling towers and four areas for tenant plant.

• To protect the occupants of the building from the noise and vibration of these machines we supplied and installed 11 CDM-ISO-MACHINE-FLOAT concrete inertia bases.

• To verify the design a full test base was built off-site. Vibration measurements were taken and the results analysed in a finite element analysis to prove no problems would exist when the generators were located on the roof.



Pictures taken Nov 2009



View from the roof of Riverbank House



CDM-MACHINE-FLOAT prior to concrete pour



Stand-by Generator Container on CDM-MACHINE-FLOAT

Industry

Project Reference