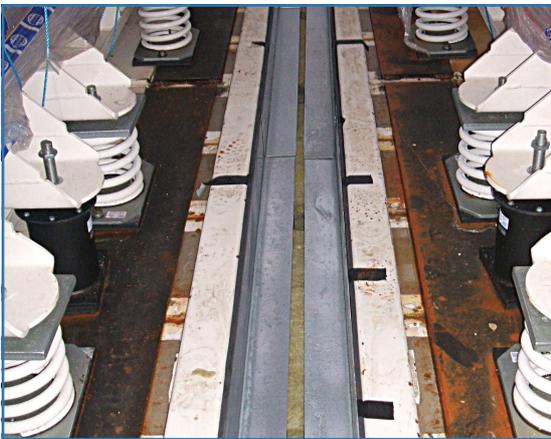


Construction and Building Isolation

Specialist Mounting Systems



Project Details

Location: Heron Tower, London.

Client: Bells Control Equipment Ltd

Isolated Equipment

3 No. FG Wilson P2250X Generating Sets in plant rooms at Levels 42 & 43.

Mass = 15116kg per Generating set.

Isolation Method

2 stage system using Open Spring Mountings and MD/3 Silicon Fluid filled Viscous Dampers between each generating set and a common intermediary steel support frame. The steel support frame is isolated from the main structure by Studflex Rubber Pads in a mixture of sizes and rubber compounds. The 2 stage system was then covered by an acoustic enclosure designed by Powerplus Engineering Ltd in Colchester, a company we have worked closely with on a number of projects.

Performance

The Arup Acoustics Specification called for Spring type isolators with a static deflection greater than 50mm fitted with ancillary dampers to prevent excessive movement as the machine passes the resonant frequency of the mounting system.

10 No. OS75/2000 Open Spring mountings (75mm deflection @ 2000kg) supporting 1511.6kg per mounting.

56.7mm deflection achieved on each mounting giving an isolator natural frequency of 2.09Hz.

Vertical Isolation Efficiency of 99.29% at 1500 RPM.



**Thomson Reuters Building
Canary Wharf**



2 Emergency Generator Sets

The Shard



*2 Stage Vibration Isolation
P2000 Generator
Acoustic Enclosure*

Stakis Metropole Hotel



*Internal & External Plantroom
Floating Floors*

Francis Crick Institute, London



*2 Stage Vibration Isolation
5 Generator Sets
Air Handling Units*

One New Change



*P800 and P2000 Generator Sets
Electrical Transformers*

Some of our Projects/Clients



**The Houses of Parliament,
London**



Air Handling Units in Plant Rooms

**Oxford Brookes
University**



Plantroom Floating Floors



In the interests of continual development, the Company reserves the right to make modifications to these details without notice.



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