

**INTRODUCTION & SPECIAL BASES**

Vibracoustics Engineers have, over the last 10 years, undertaken more than 700 major projects, for a multitude of applications.

Industrial applications have ranged from the design, specification and supply of mounting systems for specialist vehicle installations to the design, supply and installation of suspension systems for major power plant weighing up to 750 tonnes, sited in environmentally sensitive areas. Marine Industry projects have ranged from the design, selection and supply of mountings for the suspension of complete marine exhaust systems to the design, manufacture and supply of mounting systems for the large main engines of modern Cruise liners.

Everyday our Engineers are specifying anti-vibration mountings and isolation systems for applications such as fan sets, pump sets, generating sets etc etc. All recommendations are backed by years of proven experience allied with modern computer techniques and calculation packages, including where appropriate Finite Element Analysis.

Over the last 10 years, Vibracoustics knowledge and experience has been applied to expand the company's product range to include the design, manufacture, supply and installation of Special Bases.

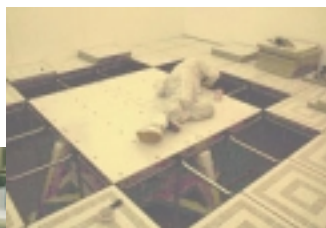
**TYPICAL SPECIAL BASE**

**Enquiry** A Semi-Conductor manufacturing plant wished to fit a Tool on to their manufacturing floor within a class A clean room environment. They required a suitable support structure for the machine which would ensure the stringent vibration specifications were met.

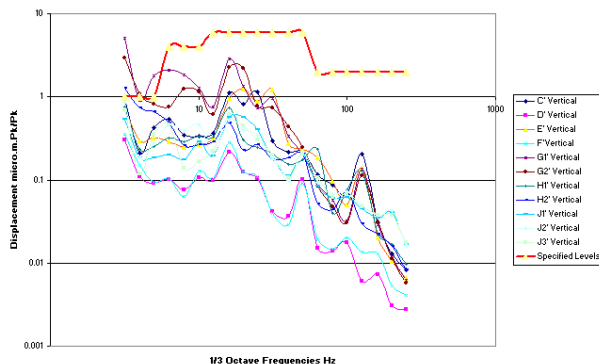
**Problem** The area designated for the tool was subject to floor vibration levels that were possibly close or exceeded the tool specification levels.

**Solution** Vibracoustics Engineers undertook an initial vibration survey of the area, compared the values with industry standards and the tool specification. Designed, manufactured and installed a suitable Tool support before undertaking a post installation survey.

**Special Base Structures**



**Typical Survey**



Method:

- Analysis of location:  
Existing vibration levels in all three directions.  
Existing floor conditions.
- Analysis of site results and machine specification.  
Analysis of site results and frequency spectrum to give design guidelines of proposed support structure.
- Design structure with FEA analysis as necessary.  
Design for manufacture and fabrication planning of the support structure.
- Delivery of structure to site.  
Installation and commissioning of the structure on site.
- Analysis of performance, confirmation of structure vibration levels compared with specification.

**For applications and technical assistance please refer to VIBRACOUSTICS Ltd.**

*Vibracoustics is continually seeking to improve products and reserves the right to change designs and specification without prior notice or alteration of literature.*

**Consultants . Designers . Manufacturers . Suppliers**

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