

Case Study - Regufoam® Foundation isolation



Wyresdale Concrete Products

Client Wyresdale Concrete Products
Isolation Area 6m x 5m x 2.2m

In brief

Wyresdale Concrete Products installed a combination of Regufoam® materials to isolate the foundations of a new Hess Vibrating Block machine, preventing vibrations generated by the manufacture of paving blocks from disturbing neighbouring residents.

Project scope

Total foundation isolation and a natural frequency of 7Hz were specified as the minimum criteria for controlling the vibrations that would be generated by the Hess Vibrating Block machine.

Working with manufacturers Hess and the engineering consultants, CMS Vibrations evaluated the key specification variables, including a final 125 tonne static load that would be imposed by the foundation block/machine and 100kn vertical/160kn horizontal dynamic loadings generated from manufacturing forces.

Balancing cost effectiveness with performance, CMS Vibrations recommended that total isolation of the 6m x 5m x 2.2m inertia pit be achieved by installing Regufoam® 150 to the sides and loose-laying Regufoam® 300 on the base. The materials were specified at 25mm thick to ensure the required performance could be achieved once the machine was operational.



Regufoam® 150

**Regufoam materials
were used to achieve
total foundation
isolation for a new
vibrating block machine**



Regufoam® 300

Results

Regufoam® delivered a high performance, sustainable and cost effective anti-vibration solution that was also quick and easy to install.

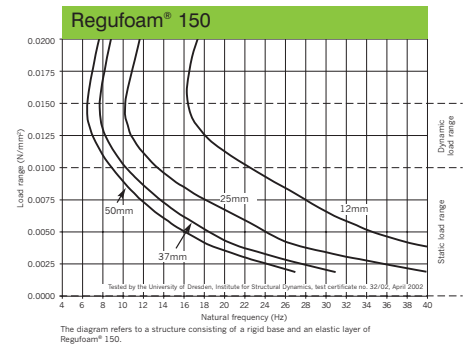
Steve Blackburn, Wyresdale Concrete Products, comments: "As a heavy duty machine that would be operational for approximately 10 hours a day, effective vibration control was a critical factor.

"CMS Vibrations were extremely responsive, taking a highly technical challenge and literally turning it into a practical and cost effective solution. Regufoam® was quick and easy to install and is delivering the exact performance we needed."

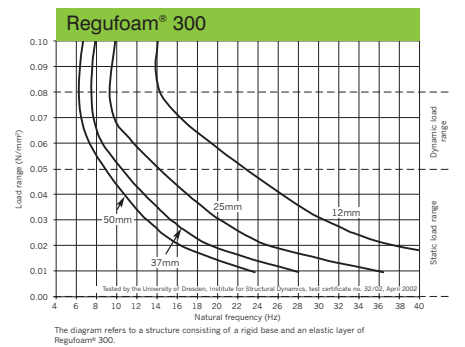
Benefits

- Excellent dampening and isolation characteristics
- Capable of achieving very low frequencies under a variety of loads
- Cost effective vibration control
- 100% recyclable

Natural Frequency



Natural Frequency



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CMS VIBRATION SOLUTIONS