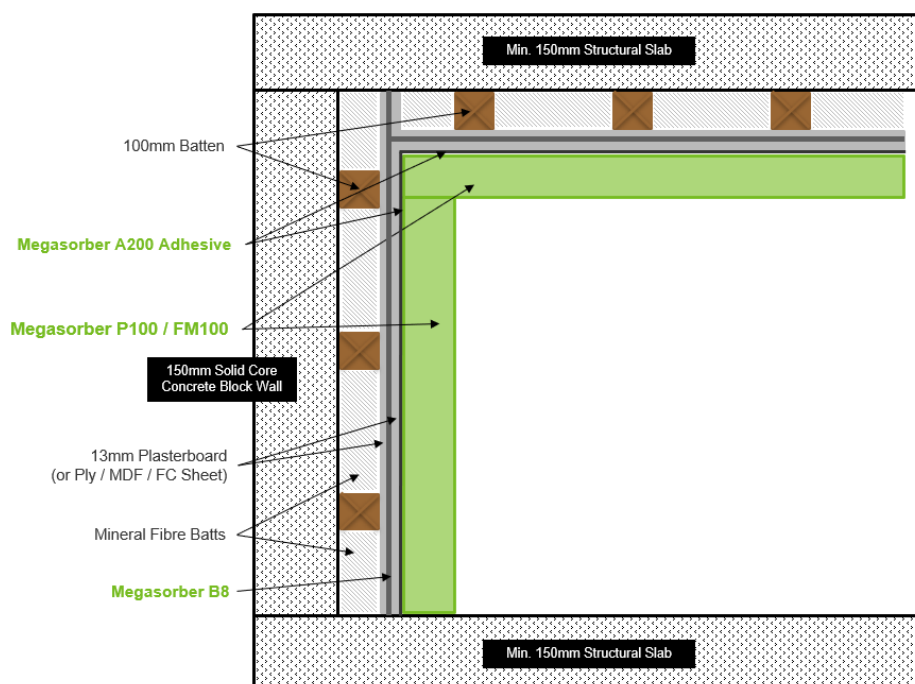


## PLANT ROOM NOISE REDUCTION

### Reducing Plant Room Noise

Generator or plant rooms tend to have high noise levels (up to 115dB(A)) with noise concentrated in the low to mid frequency range. Without proper soundproofing treatments, the high noise level can cause discomfort to nearby facilities.

#### Megasorber Quiet System



This system addresses both absorption and transmission loss, through use of a noise barrier layer in addition to absorption panels.

Install battens on wall and ceiling of the plant room and fix a sandwich of Megasorber B8 and 2 layers of plasterboard / ply / MDF / FC sheet. Adding mineral fibre batts in the cavity will increase the performance of this system. Install Megasorber P100 or FM100 to the outside of the sandwich layers, using A200 adhesive. Mechanical fixing is recommended when installing in an overhead position.

The above schematic shows a system rated at  $R_w$  61 – based on noise levels heard outside the plant room. Internally, you can expect a reduction of 6-10dB(A).

## Recommended Products

### B8

8kg/m<sup>2</sup> thermal mouldable flexible noise barrier

Sheet size: 1.2m x 2.3m



### FM100G-G

100mm Lightweight Acoustic Panel (Grey) with Soundmesh G8 Facing (Grey)

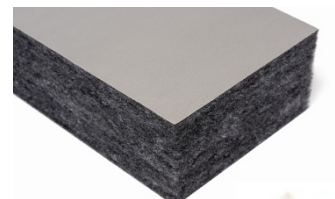
Sheet size: 1.15m x 2.35m



### P100G-G

100mm Acoustic Polyester Panel (Grey) with Soundmesh G8 Facing (Grey)

Sheet size: 1.2m x 2.4m



### A200CW

High tack, high temperature resistant cartridge adhesive (white)

Carton size: 12m x 290ml cartridges



### T75GR-50 (optional)

Self-adhesive Soundmesh Tape (Grey)

Roll size: 75mm x 50m



## Further Information

As each unit has different requirements, this information should be used as a guide only. Ensure you follow manufacturer's recommendations with regards to airflow, clearance required from exhaust, fans etc.

Please contact the Megasorber team with any specific enquiries for additional information and recommendations.

