

NOISE

case study

Concert Room Sound Insulation

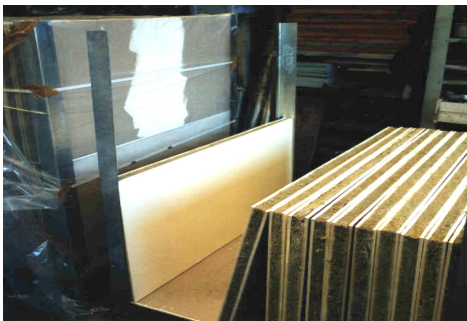
Melbourne Social Club - Lancaster

Served with a noise abatement order this club had to act quickly to avoid financial disaster when they could no longer provide live entertainment. The club has been expertly sound proofed ,as the following describes.



This picture shows the new ceiling system going in. Note the red reinforcing steelwork necessary to take the extra weight of the soundproof ceiling.

A conventional suspended grid ceiling was used with extra suspension wires supporting 25 kg/sq mtr.



These are the sound proof panels placed above the ceiling tiles. The panel is a composite of plasterboard and high density mineral fibre with a sound insulation of 25 dB



There were two emergency escape routes. This one was straight from the concert room to the outside so it was fitted with a steel soundproof doorset, very secure and with some 45 dB sound insulation it matches the sound insulation of the walls.

The other escape route had two doors with a connecting passage so it was only necessary for good rubber edge seals to be fitted around the door perimeters.