

Details & Specification of Packaged Plant Rooms

Ventilation

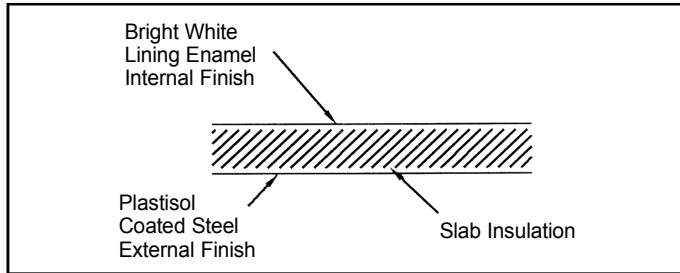
High level ventilation shall be by means of the acoustic ridge vent **Patent No. 2280206**. Ventilation at low level shall be by means of louvres, which will be suitably sized and manufactured from plastisol in the same colour as the unit.

Weatherskirt

A suitably designed weatherskirt will be provided to match the finish of the container, to be installed after installation and final positioning of the plant room, thus ensuring no steelwork will be exposed to the elements with the unit's exterior being maintenance free.

Container Panel Option A

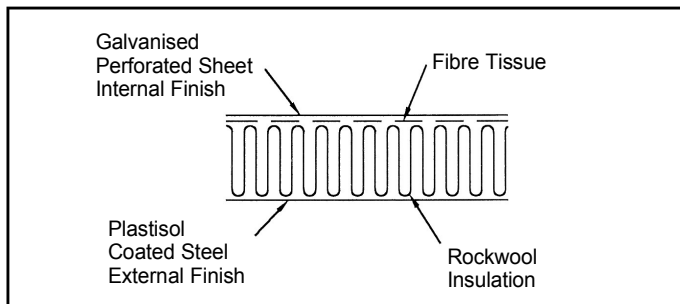
40mm Thick Bonded Panel (also available as fire rated)



The panel construction as detailed above is a very robust construction giving excellent protection and sound qualities. The construction process involves pressing the panels in a purpose built press, for a period of 24 hours. The external skin is a Plastisol coated steel sheet with a 40mm thick zero ODP slab insulation board. The internal skin is a white enamel coated steel sheet, which gives an excellent surface for cleaning and light reflection.

Container Panel Option B

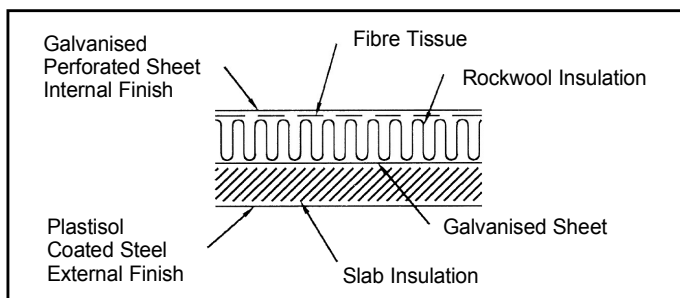
80mm Thick Acoustic Panel (also available as fire rated)



The panel construction as detailed above has the primary function of its excellent sound qualities. It allows sound to be absorbed into the panel thus minimising external noise breakout. The external skin is a Plastisol coated steel sheet with 80mm thick rocksil LR insulation. The internal skin is a galvanised perforated steel sheet having a glass fibre tissue membrane affixed thus preventing the migration of the rockwool insulation.

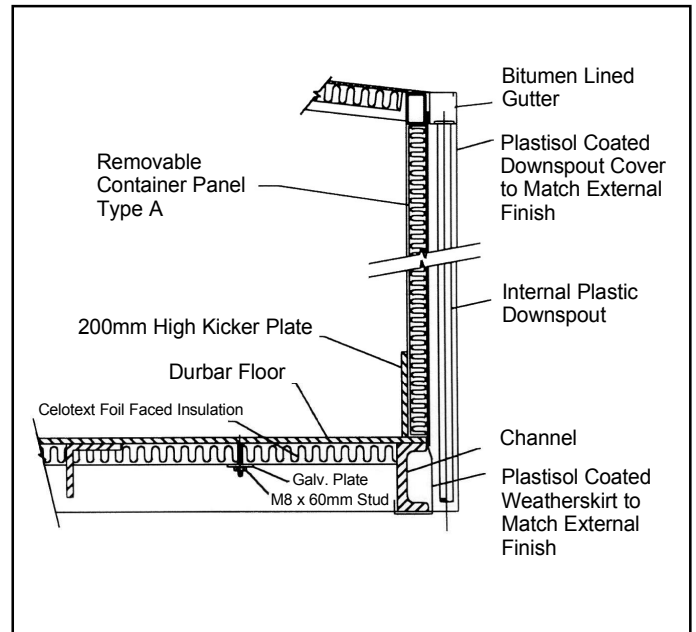
Container Panel Option C

80mm Thick Bonded/Acoustic Panel (also available as fire rated)

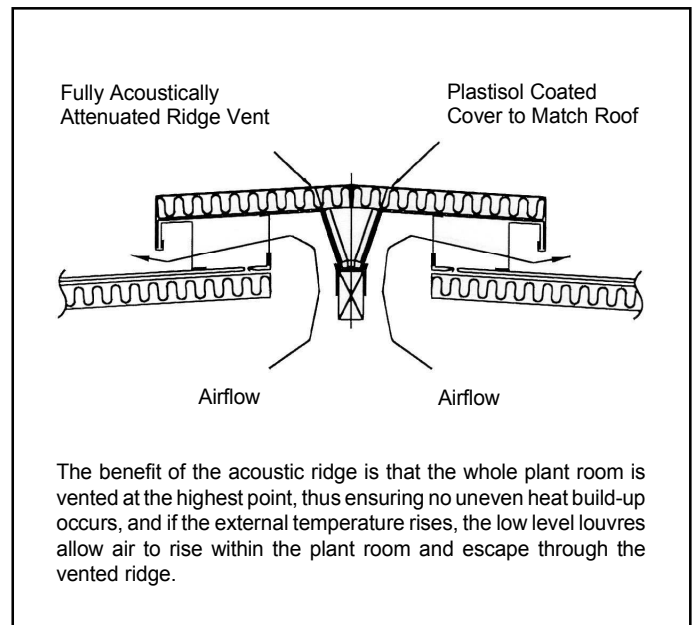


The panel construction as detailed previous is similar to the option B choice but the construction combines the option A panel. This gives a far superior construction and greater sound qualities. This panel manufacturing process takes a total of 48 hours minimum construction per panel. The external skin is a Plastisol coated steel sheet with 40mm thick zero ODP slab insulation bonded with a galvanised steel sheet. The final process involves laying 40mm thick rockwool insulation and a glass fibre tissue membrane. The internal skin is a galvanised perforated sheet.

Section Through Container Detailing Underfloor Insulation



Detail of the Patented Fully Acoustically Attenuated Ridge Vent



Acoustic Enclosures

The sound reduction index of the cladding panel option C makes it an effective barrier to airborne plant noise. This allows containerised plant rooms to be located adjacent to potentially noise sensitive areas without the risk of noise breakout. All air inlets and outlets are acoustically treated to maintain the necessary acoustic performance.

