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## ACOUSTICAL OPINION - FOILBOARD AUSTRALIA PTY LTD "FOILBOARD" WALL SYSTEM

### DESCRIPTION

150mm thick concrete precast panel wall - on one side 10mm thick plasterboard on "Rondo" PN308 16mm furring channel fixed to "Rondo" PN237 direct fixing clip to wall - on the other side 13mm thick plasterboard on "Rondo" PN129 28mm furring channel fixed to "Beta-Fix" adjustable direct fixing clip to wall - 10mm thick "Foilboard" Standard 10 or 15mm thick "Foilboard" Super 15 thermal insulation board (expanded polystyrene board with aluminium foil to each side) fixed against panel wall on the 13mm thick plasterboard side - adjustable arms of "Beta-Fix" clips through thermal insulation board - plasterboard sheets finished and perimeters acoustically caulked.

### SOUND TRANSMISSION CLASS (STC) AND WEIGHTED SOUND REDUCTION INDEX ( $R_w$ )

The following STC and  $R_w$  ratings are based on the sound transmission loss data of concrete walls, and by calculation.

System as described above:

STC  $50 \pm 2$   
 $R_w = 50 \pm 2$  dB

### Notes:

1. The STC (Sound Transmission Class) rating and  $R_w$  (Weighted Sound Reduction Index) are single number indices used to rate the sound isolation of a partition against noises, which do not have significant low frequency components, such as speech. The STC and  $R_w$  ratings given are the expected performance in a laboratory which tests to AS1191 "Acoustics - Method for Laboratory Measurement of the Airborne Sound Transmission Loss of Building Partitions". The field ratings (FSTC and  $R'_w$ ) may differ from the laboratory results.
2. The expected tolerance allows for variations due to the test method, differences between laboratories, and accuracy of the estimate.

### PREPARED BY:



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