

20 September 2016

Project No: 4074

ECO Block Pty Ltd
34 Gracemere Street
NEWMARKET QLD 4051

ATTENTION: TONY DAL BON

Dear Tony

RE: ECO BLOCK 101 WALL - ACOUSTIC OPINION

Over recent years acoustic tests have been carried out by our office, Gabriel's Environmental (Perth) and Cogent Acoustics (Melbourne) on the 101 and 152 series Eco Block wall. The 152 series wall tests have consistently been shown to provide a performance of close to DnTw + Ctr 51, whereas the 101 series walls tested had a performance in the range DnTw 39 to 44. In all cases for the 101 series wall tests, flanking through doors has been a factor in the tests with the performance being lower than expected.

It is our understanding that the 152 series wall has a surface mass of close to 365 kg/m² with that of the 101 series wall being 245 kg/m². By applying the mass law for acoustic isolation we find that the mass difference (152 walls cf 101 wall) represents close to a 3.5 dB lower in performance. Hence is it reasonable to consider that a 101 series wall, without onsite flanking, will field test to give a Dntw + Ctr ≥ 45 , ie this then is a BCA compliant wall between sole occupancy units. On this basis we approve this wall for party walls between sole occupancy units in Class 2 and Class 3 residential buildings.

Please do not hesitate to contact us should you wish to discuss this matter further.

Yours Faithfully
PALMER ACOUSTICS (Australia) Pty Ltd



ROSS H. PALMER CPEng RPEQ 3534
Principal Engineer