

TF126-02F02 (rev 0) Acoustic Performance of Raupiano Plus

21 October 2011

David Cole

REHAU Pty Ltd

Level 8, 1 Rider Boulevard

Rhodes NSW 2138

Dear David

RE: ACOUSTIC PERFORMANCE OF RAUPIANO PLUS PIPEWORK

Renzo Tonin & Associates were engaged by Rehau to provide piping systems that satisfy the acoustic requirements of the Building Code of Australia (BCA). Specifically, develop forms of constructions incorporating the Raupiano Plus pipework with various plasterboard ceiling constructions that achieve R_w+C_{tr} 40 and R_w+C_{tr} 25 without any reliance on acoustic lagging. These forms of constructions were then tested in the laboratory for validation of their acoustic performance.

A series of acoustic tests were recently conducted (18/08/2011-25/08/2011) at the National Acoustical Laboratories, Chatswood NSW and our preliminary assessment of the test results show that the acoustic performance of the Raupiano Plus pipework in a system is equivalent to PVC pipework lagged with Pyrotek 4525C. The test results also show that the Raupiano Plus pipework conforms to the performance requirements of the BCA.

Yours faithfully,



RENZO TONIN & ASSOCIATES (NSW) PTY LTD

Nicholas Tselios

Director

Architectural & Building Acoustics Team

