

3 November 2025

TP197-01F03 addendum letter (r0)

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To whom it may concern

Archer and Bertram Streets Chatswood - Addendum letter response to DPHI items

Please find below Reno Tonin & Associates response to the DPHI issues raised in the Request for Additional Information letter relating to acoustics for the proposed development at 37 Archer Street (Archer and Bertram Streets), Chatswood. This is addendum to the noise and vibration report TP197-01F02 Noise and Vibration Assessment for SSSA (r1) dated 7th May 2025.

Item 9 of the Request for Information states:

...

Assess the acoustic impacts from the lift core on adjoining apartments and confirm that an internal noise level of 35dB(A) can be achieved in the bedrooms during night time lift operation. Include apartment 307 (which hosts the commercial lift overrun) in the assessment.

...

Acoustic separation of the lift shaft (including lift overrun) are addressed in the National Construction Code Volume 1 F7D6 Sound insulation rating of walls, which states:

(1) A wall in a Class 2 or 3 building must—

...

(b) have an R_w (airborne) not less than 50, if it separates a sole-occupancy unit from a plant room, lift shaft, stairway, public corridor, public lobby or the like, or parts of a different classification; and

(c) comply with F7D4(2) if it separates—

(i) a bathroom, sanitary compartment, laundry or kitchen in one sole-occupancy unit from a habitable room (other than a kitchen) in an adjoining unit; or

(ii) a sole-occupancy unit from a plant room or lift shaft.

The proposed lift shaft construction will consist of a minimum 200mm thick concrete, a 20mm air gap, a minimum 64mm stud, 13mm plasterboard lining and acoustic insulation in the wall cavity. The predicted acoustic rating is in excess of R_w 65, well exceeding the requirements of the NCC. The discontinuous construction minimises impact noise associated with lift operations.

For the commercial lift overrun at apartment 307, a minimum 200mm concrete slab is proposed. A discontinuous construction must be provided to achieve the NCC directive. Therefore a secondary skin will be required to achieve the separate leaf with no mechanical linkage. This may be achieved through a suspended lightweight construction below the concrete slab, fixed at the perimeter.

Construction in accordance with the NCC would typically result in $L_{Aeq,T}$ noise levels from lift movements to be below 35dB(A). Further assessment shall be undertaken in the Construction Design Process, once lift selections have been made.

We trust these details satisfy the request for additional information.

Regards,



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