

Friday, 10 November 2023

Project number: S220427

Reference: S220427LT1

Moses Rubal  
Mainway Management Pty Ltd  
Lv5, Suite 10, 157 Gloucester Street,  
The Rocks NSW 2000

Dear Moses,

Resonate Consultants have undertaken an acoustic review of the floor plan referenced as 'High Rise A' as requested by Willoughby Council for the proposed mixed use tower building to be constructed at 5-9 Gordon Avenue, Chatswood. The Council has raised concern for the acoustic amenity and appropriateness of the floor layout in the scenario where bedrooms adjoin the principle living areas of neighbouring units.

It is noted that this scenario only occurs on one occasion for this floor layout, between a bedroom in apartment 701 and the living area in apartment 702 as shown in Figure 1.

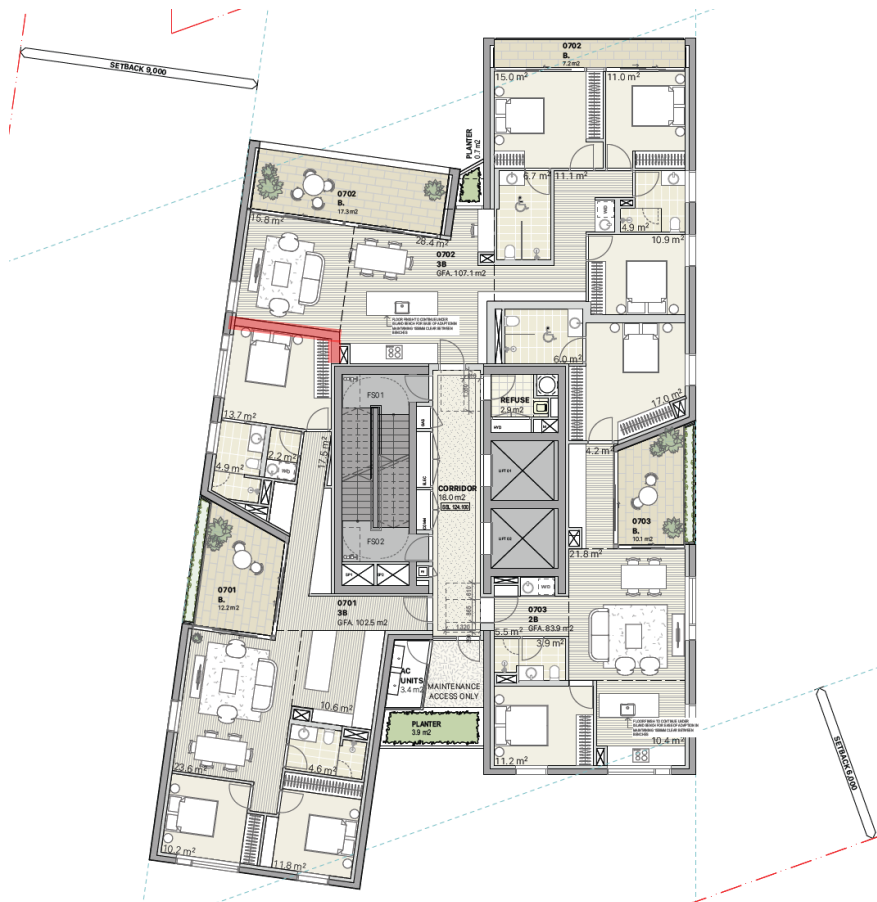


Figure 1 – High Rise A Floor Plan

The acoustic amenity between apartments is protected by the following:

- The intertenancy wall between the bedroom in apartment 701 and living area of apartment 702 is required to comply with the Part F5 sound transmission and insulation requirements of the Building Code of Australia, which has an airborne noise criterion of  $R_w + C_{tr} \geq 50$ . This intertenancy wall is to extend to the underside of the floor above.
- The intertenancy wall interface with the façade column is required to not degrade the overall sound insulation performance of the wall.
- The glazing for the development is to be acoustically upgraded to achieve  $R_w$  35 for the bedroom (apartment 701) and  $R_w$  30 for the living area (apartment 702) on this floor plan in order to comply with State Environmental Planning Policy (Transport and Infrastructure) 2021 traffic noise impacts on the development from Pacific Highway.

Based on the above project requirements it is expected that the High Rise A floor plan is appropriate in terms of acoustic amenity between the bedroom in apartment 701 and living area in apartment 702.

Please let me know if you have any queries or wish to discuss the above.

Yours sincerely,



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