

10 November 2025

Essence
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Ref: **CPP17939 Compass Centre Bankstown**

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Impact of design changes on Natural Ventilation

To address the comments from Council regarding the potential for suitable natural ventilation to Apartments B608, B708, B808, B908, C601, C701, C801, and C901, the external geometry has been amended as presented in Figure 1 and Appendix A. These changes are confirmed to provide opportunities for cross-ventilation. The operable windows/doors on opposing or adjacent façades, allows for the potential transfer of air through the apartments, consistent with the intent of the ADG.

It is understood that the ADG's natural ventilation objectives are primarily aimed at maintaining satisfactory indoor air quality (approximately 10 L/s per person) rather than ensuring comfort cooling. On this basis, the configuration of the apartments is considered capable of achieving the necessary air movement to meet the ADG performance requirement.



Figure 1: Current (top) and proposed (bottom) floor plans and elevations of Building B (typical apartments B608, B708, B808, B908) (PTW, 2025) with potential natural ventilation flow path marked.



CPP confirm that based on the revised apartment layouts and window configurations, the design achieves the potential for appropriate ventilation in the nominated apartments.

Please contact the undersigned should you have any questions regarding the above.

Yours Sincerely

A handwritten signature in black ink, appearing to read 'Jordan Black'.

Jordan Black
Project Engineer

CC: Joe Paetzold, PhD
Engineering Manager

Appendix A – Proposed design modifications (PTW, 2025)

A minor adjustment has been made to improve cross ventilation within the apartments, as follows:

Typical Unit B-09 / Unit B-601 [mirrored]:

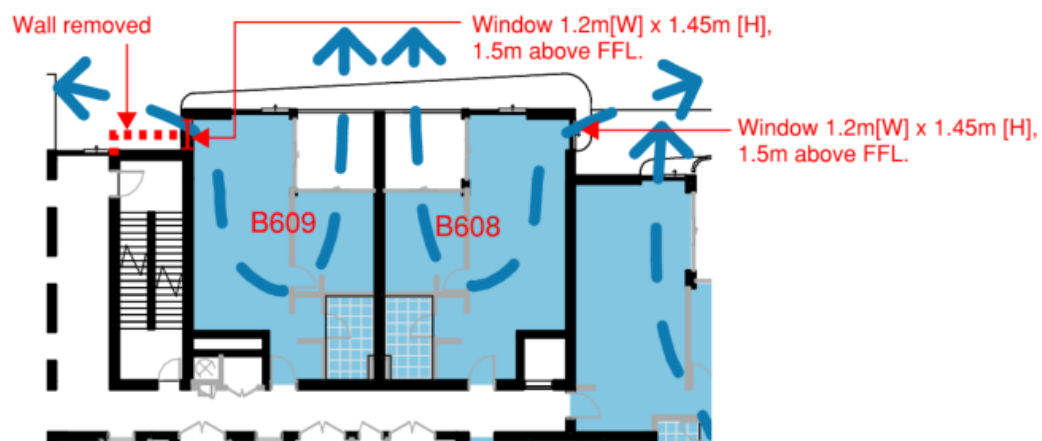
The wall adjacent to the side window has been removed to allow for a larger window (1.2 m [W] x 1.45 m [H], positioned 1.5 m above FFL), enhancing cross ventilation throughout the apartment.

Typical Unit B-608:

No updates have been made, as the current proposed window location and size already achieve effective cross ventilation. Refer to the CPP wind consultant's advice for confirmation.

The total natural ventilation compliance remained at 66%. (AGD requirement: 60%)

Unit B609 to B2309 & B608 to B-2308



Unit B601 to B2301

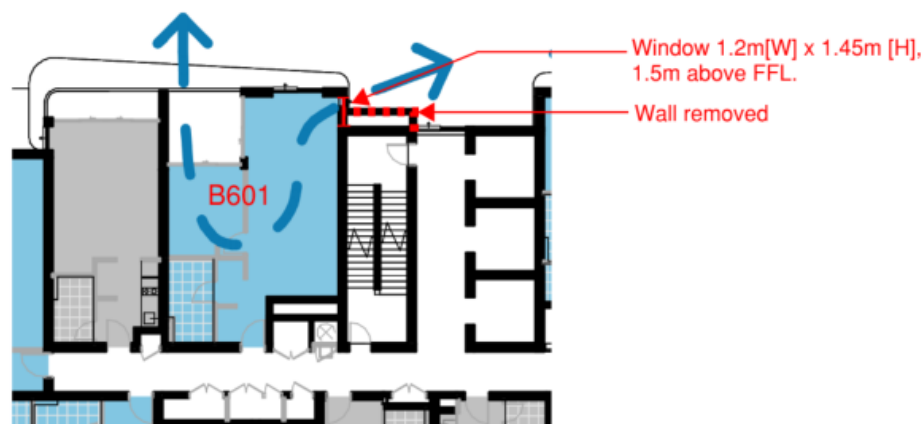


Figure 2: Proposed design changes - Unit B609 to B2309 & B608 to B2308 (top) and Unit B601 to B2301 (bottom)