

## CODE COMPLIANT EXHAUST VENTILATION

### SYSTEM REQUIREMENTS

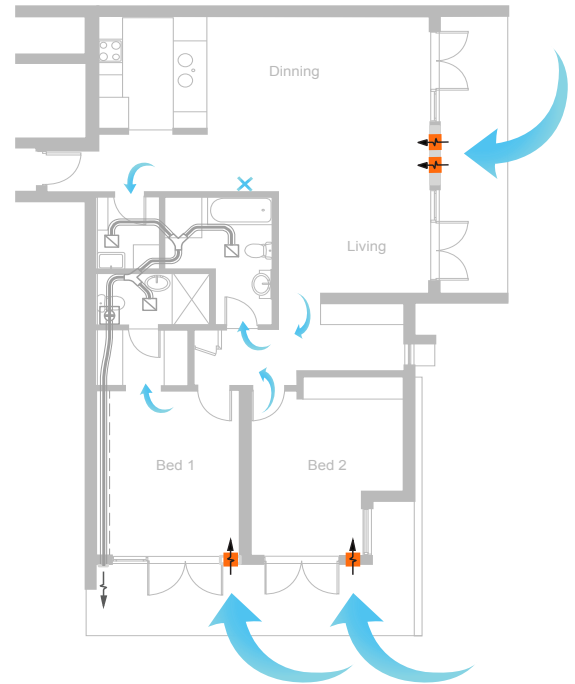
- One or more Silenceair modules are placed in each habitable room. Preferably 1 in each bedroom and 2 in the living / dining room. The choice of which Silenceair unit will depend on the exterior wall type chosen for the project.
- The door to each habitable room and bathroom is undercut a nominal 10 – 15 mm to allow air flow. This is the usual undercut when the door is fitted during construction.
- The existing bathroom/laundry exhaust system is used.
- An on/off switch for the bathroom exhaust fan, independent of the bathroom light, should be situated in a convenient location in the hallway, near the front door, or outside the bathroom.
- The switch should be labelled as 'Ventilation System'.

### OPERATION

- Due to external noise, it is assumed that the windows and balcony doors are closed when the inhabitants want to sleep.
- When the system switch is turned on, the existing bathroom fan will suck air out of the apartment, creating a negative internal pressure.
- Air will be drawn in through each of the Silenceair modules in each of the habitable rooms. The air flow will self-balance across the Silenceair units within the apartment.
- The door undercuts will allow the air to flow to the bathroom, where it is drawn out by the exhaust fan.
- Shut off dampers are included in the internal face plates of each Silenceair unit to allow closure of the system in extreme weather events or when required.

### COMPLIANCE

- This system is designed to be code compliant.
- This system will satisfy the mechanical ventilation requirements of AS 1668.2 for the supply of fresh air into the apartment, when installed correctly.
- The acoustic consultant will need to confirm that the installation of Silenceair module into the external walls will satisfy the acoustic barrier requirements specified in the acoustic report.
- The technical performance tables for the Silenceair modules can be used to calculate the exterior wall composite acoustic performance.
- The Silenceair system has been successfully installed in numerous apartment towers across Australia over the last 10 years.



### ADVANTAGES

- **LOW COST.** Silenceair is the most cost effective solution for code compliant ventilation in noise affected areas. There is minimum additional expenditure to ensure code compliance. The exhaust ventilation system is already included in the project. There is no need for additional expensive and intrusive bulkheads and ductwork.
- **EASY TO OPERATE.** The ventilation system is operated at the discretion of the occupants, offering reduced operating and maintenance costs.
- **EASY & FAST TO INSTALL.** The Silenceair modules are designed to be easily fixed within the wall structure.
- **REDUCES MOULD, MILDEW & NOXIOUS FUMES.** When the apartment is not occupied and the system is turned off, the Silenceair units will operate as trickle vents for background ventilation, allowing fresh air movement in the rooms, reducing the buildup of mould, mildew and noxious fumes from furnishings and paint.
- **DISCRETE.** The Silenceair modules are hidden in the wall. Only the small vent covers are visible.
- **ROBUST.** The Silenceair modules require no maintenance to continue to perform, and will last the life of the building.
- **COLOUR COORDINATED.** The exterior weather louvres are colour coordinated to match the building colour scheme and enhance the architecture.
- **ENVIRONMENTALLY RESPONSIBLE.** Silenceair modules contain recycled material, and are fully recyclable.