



## 02 Ventilation

This compliance information sheet (02) is the Petroleum and Gas Inspectorates interpretation of the *safety requirement AS/NZS5601.2:2020 Gas Installations Part 2 LP Gas installations in caravans and boats for non-propulsive purposes, Section 7 - Ventilation.*

The design of a gas installation, in a caravan (recreational vehicle), must provide adequate ventilation for the proper operation of gas appliances and flueing systems and be sufficient to maintain safe ambient conditions. In addition, the air supply to gas appliances must provide for complete combustion of the fuel gas and must be free of any substance that could adversely affect the safe operation and durability of the appliance (see clause 2.9.4).

Any **living space** in which a gas appliance is installed (including room sealed appliances and gas fuelled refrigerators) must be provided with a **minimum ventilation free area of 4000mm<sup>2</sup>**, or a free area calculated by way of the formula in clause 7.3.1, whichever is the greater.

- Where a gas appliance is installed in a void (under bed or in a cupboard) within the living space, the ventilation requirement applies to the living space, not the void. Note: Gas appliance *manufacturer installation instructions* may require additional ventilation for the void in which the appliance is installed.
- Where no gas appliance is installed in the living space, no ventilation is required by this safety requirement.

The calculated ventilation free area (or 4000mm<sup>2</sup> minimum) must be provided by **at least two vents directly to outside**, 50% free area through a vent at high-level (<150mm from ceiling) and 50% free area at low level (<150mm from the floor). The vents must be located to provide a **cross flow of air** (clause 7.4.1) in the **living space in which the gas appliance is installed.**

**Dust covers are only permitted on the lower vent** to prevent the ingress of dust or water during off road travel. The design and fitment of the lower vent must ensure it is open and unrestricted when gas appliances are in use. For example, the cover must be removed to access the living space of the vehicle. The **upper vent** must remain **permanently open and unobstructed** (clause 7.4.2). Where a vent cover is provided, a carbon monoxide detector conforming to EN50291-2 or UL 2034, capable of detecting low concentrations of CO and having an audible alarm should be considered.

**Both vents must be appropriately labelled (CI 7.7)**

