

4.1 Ventilation strategy

Related Credits: RE-R1: Minimum Energy Performance
LBI-R1: Healthy Ventilation Delivery



An observational survey of the building site and its immediate surroundings shall be conducted to determine site air quality conditions and local contaminants from the surrounding environment. The outdoor air quality investigation shall be documented and reviewed with building owners or their representative.



All exhausts shall discharge outside the defined public realm or as defined by local code, whichever is more stringent in order to maintain air quality. Discharging above a public realm space can be achieved if vertical separation is provided, which typically would be a minimum of one storey above the public realm space.

Minimum fresh air rates to ensure good air quality (for breathing and removing air contaminants) shall comply with the minimum thresholds set out in ASHRAE 62.1:2007 using the ventilation rate procedure or local code, whichever is more stringent.

The shortest distances between outdoor air intakes (including doors and windows required as part of a natural ventilation system) and any exhausts or discharge points should comply with ASHRAE 62.1.2007 or local code whichever is more stringent. This will avoid cross contamination and provide good air quality.

Refer to example 4.1 Ventilation Strategy for a graphical representation of a typical building with associated minimum air intake separation distances.

Example 4.1

