

# Optimal orientation for natural ventilation

SPP7.3 R-Codes Volume 2 - Apartments, 4.2 Natural ventilation

**O 4.2.1** Development maximises the number of apartments with natural ventilation.

**O 4.2.3** Single aspect apartments are designed to maximise and benefit from natural ventilation.

**A 4.2.2 (b)** Single aspect apartments included within the 60 per cent minimum at (a) above must have:

- ventilation openings oriented between 45° – 90° of the prevailing cooling wind
- room depth no greater than 3 × ceiling height direction

**Note** - Orientation for natural ventilation should consider location and site context. In some environments direct orientation to the prevailing wind is preferable, however often in coastal locations shelter from the prevailing wind is necessary.

Natural ventilation also needs to be balanced against solar access orientation requirements.

Assuming south west prevailing cooling wind

