

CHAPTER 4 VENTILATION

SECTION 401 is amended as follows:

401.1 Scope. This chapter, ~~in conjunction with the building code~~, shall govern the ventilation of spaces within a building intended to be occupied. This chapter does not govern the requirements for smoke control systems. The principles specified in ASHRAE Standard 62-2001 may be used as an alternate to this chapter to demonstrate compliance with required ventilation air for occupants.

401.2 Ventilation required. Every occupied space shall be ventilated by natural means in accordance with Chapter 12 of the building code ~~Section 402~~ or by mechanical means in accordance with Section 403.

<p>NOTE: Heating and air conditioning controls shall conform to Chapter 13 of the <i>Oregon Structural Specialty Code</i>.</p>

401.4.1 Intake openings. Mechanical and gravity outdoor air intake openings, shall be located a minimum of 10 feet (3048 mm) horizontally from any hazardous or noxious contaminant source, such as vents, chimneys, plumbing vents, streets, alleys, parking lots, gas meters and loading docks, except as otherwise specified in this code. Where a source of contaminant is located within 10 feet (3048 mm) horizontally of an intake opening, such opening shall be located a minimum of 2 feet (610 mm) below the contaminant source.

The exhaust from a bathroom or kitchen in a residential dwelling shall not be considered to be a hazardous or noxious contaminant.

SECTION 402 is amended as follows:

402.1 Natural ventilation. ~~(delete model code language and insert the following)~~ (See Chapter 12 of the *Oregon Structural Specialty Code*)

SECTION 403 is amended as follows:

403.2.2 Transfer air. ~~Except where recirculation from such spaces is prohibited by Table 403.3,~~ Air transferred from occupied spaces is not prohibited from serving as makeup air for required exhaust systems in such spaces as kitchens, baths, toilet rooms, elevators and smoking lounges. The amount of transfer air and exhaust air shall be sufficient to provide the flow rates as specified in Sections 403.3 and 403.3.1. The required outdoor air rates specified in Table

403.3 shall be introduced directly into such spaces or into the occupied spaces from which air is transferred or a combination of both.

Exceptions:

1. Where recirculation from such spaces is prohibited by Table 403.3.
2. Air transferred from spaces served by other fan systems shall not be used if those systems are required to meet either Section 401.7 of this code or Section 1317.2.2 or 1318.3 of the Oregon Structural Specialty Code.
3. Where ventilation schedule of HVAC system supplying transfer air is not similar to exhaust system operating schedule.

403.3 Ventilation rate. Ventilation systems shall be designed to have the capacity to supply the minimum outdoor airflow rate determined in accordance with Table 403.3 based on the occupancy of the space and the occupant load or other parameter as stated therein. The occupant load utilized for design of the ventilation system shall be based on expected average occupant load provided the average occupant load is not less than one-half the number determined from the estimated maximum occupant load rate indicated in Table 403.3. ~~Ventilation rates for occupancies not represented in Table 403.3 shall be determined by an approved engineering analysis.~~ The anticipated ventilation occupancy load and occupancy ventilation design methods shall be documented on plans and specifications. The ventilation system shall be designed to supply the required rate of ventilation air continuously during the period the building is occupied, except as otherwise stated in other provisions of the code.

SECTION 404 is amended as follows:

404.1.1 Enclosed parking garage ventilation controls. See Section 1317.2.3 of the *Oregon Structural Specialty Code*.

SECTION 405 is amended as follows:

405.1.1 Ventilation controls for high occupancy areas. See Section 1317.2.2 of the *Oregon Structural Specialty Code*.