

CHAPTER 1 - VENTILATION AND AIR QUALITY

400

401.04 ISOLATION OF POLLUTANT SOURCES



INTENT

To maintain healthy internal environment for building occupants by isolating hazardous pollutants.

REQUIREMENT

All new and existing buildings having spaces that has activities producing hazardous fumes or chemicals, must provide dedicated air extraction systems for those spaces. The system must create negative pressure and exhaust the fumes or chemicals to ensure it does not enter adjacent rooms.

Dangerous goods must be stored in accordance with Dubai Municipality's requirements.

SIGNIFICANCE

Building uses such as cleaning stores, laundry rooms, printing rooms and garbage rooms may produce hazardous fumes or chemicals. If not adequately isolated, these contaminants may enter other occupied areas of the building and in the ventilation system. Prolonged exposure or usage of these hazardous chemicals can have adverse health effects on building occupants. Proper isolation and ventilation of hazardous fumes and chemicals within a building will help to ensure good indoor air quality.

APPLICABILITY

This regulation is applicable to all building types. Refer to Table 101.07 (1) in Section One - Administration for detailed applicability levels.

IMPLEMENTATION

Prior to developing the building design, identify spaces where hazardous gases or chemicals may be handled or used and develop a contaminant control design for those spaces to prevent interior cross-contamination. Hazard study methods can also be used to evaluate design concepts and to validate the HVAC design conforms to applicable safety plans. The nature and quantity of the contaminant, types of operations, and degree of hazard dictate the types of containment and local exhaust devices. Spaces where hazardous gases or chemicals may be present include garages, housekeeping and laundry areas, copying and printing rooms, laboratories, prep rooms, art rooms etc.