

CHAPTER 1 - VENTILATION AND AIR QUALITY

400

401.07 INDOOR AIR QUALITY COMPLIANCE – EXISTING BUILDINGS



INTENT

To maintain acceptable indoor air quality levels for occupant well-being in existing buildings.

REQUIREMENT

For all existing hotels, shopping malls, educational facilities, government buildings, healthcare facilities, mosques and worship buildings, theaters, cinemas or any other existing buildings as determined by DM in future, suitable ventilation system must to be provided for the building occupants. The provided system must ensure, the air quality provided is in accordance with the technical guidelines issued by Dubai Municipality.

The buildings must apply the following procedures:

- A. Indoor air testing for the contaminants listed in Table 401.07 (1) must be carried out, to ensure the air quality in the building, is suitable for occupancy. The maximum limit for the indoor air contaminants provided in Table 401.07 (1), must not be exceeded.

Table 401.07 (1): Schedule, Duration of Sampling and Maximum Limit for Contaminants

Sampling Schedule	Type of Samples	Maximum Acceptable Limit	Sampling Duration
Testing should be within 5 years of last compliant test	Formaldehyde	< 0.08 ppm	8-hour continuous monitoring (8-hour time-weighted average [TWA])
	Total Volatile Organic Compound (TVOC)	< 300 micrograms/m ³	
	Respirable Dust (<10 µ/m)	< 150 micrograms/m ³	
	Ozone	< 0.06 ppm (120 micrograms/m ³)	
	Carbon Dioxide	< 800 ppm (1440 micrograms/m ³)	
	Carbon Monoxide	< 9 ppm (10 micrograms/m ³)	
	Bacteria	< 500 CFU/ m ³ (Agar plate)	
	Fungi	< 500 CFU/ m ³ (Agar plate)	