

# CHAPTER 1 - VENTILATION AND AIR QUALITY

400

## 401.06 INDOOR AIR QUALITY COMPLIANCE – NEW BUILDINGS



### INTENT

To maintain acceptable indoor air quality (IAQ) levels for occupant well-being.

### REQUIREMENT

For all new buildings, suitable ventilation for the building occupants must be ensured and the air quality must be in accordance with the technical guidelines issued by Dubai Municipality.

The buildings must apply the following procedures:

- A. Indoor air quality testing must be carried out prior to occupancy. The maximum limit for the indoor air contaminants stated in Table 401.06 (1), must not be exceeded. Report showing compliance with these requirements, must be submitted to Dubai Municipality.

**Table 401.06(1): Schedule, Duration of Sampling and Maximum Limit for Contaminants**

Sampling Schedule	Type of Samples	Maximum Acceptable	Sampling Duration
Pre-Occupancy	Formaldehyde	< 0.08 ppm	8- hour continuous monitoring (8-hour time-weighted average [TWA])
	Total Volatile Organic Compound (TVOC)	< 300 micrograms/m <sup>3</sup>	
	Suspended Particulates (<10 microns)	< 150 micrograms/m <sup>3</sup>	

- B. Air quality testing must be carried out by specialised companies or laboratories.
- C. Air quality testing equipment must have initial and periodical calibration certificate. Calibration certification frequency shall either be annually or as per manufacturer specification and shall be from an external calibration facility, accredited by DM. The initial and periodical calibration certificates must be saved in a special register. The calibration certificate would be checked by DM to validate the accuracy of the readings. This also is a requirement for renewing the indoor air quality certificate of the building.