

CHAPTER 6 - WATER QUALITY

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406.02 WATER QUALITY OF WATER FEATURES



INTENT

To control and reduce the effects of legionella bacteria in water features.

REQUIREMENT

For all new and existing buildings, all water features having a water storage volume of over 1,000 l and which creates a water spray or aerosol, including but not limited to waterfalls, ponds, streams etc., must be maintained, cleaned, disinfected and checked periodically, to minimise the risk of legionella bacteria or germs contamination. It must also not exceed the maximum limits, outlined in the technical guidelines issued by Dubai Municipality.

SIGNIFICANCE

Water in water features gets contaminated either from surrounding environment or from contact with people or animals. Presence of human or animal waste may lead to detection of fecal coliform in drinking water or swimming pools. Favourable temperature range encourages the growth of legionella bacteria. Occupants exposed to contaminated water may have adverse health problems.

This regulation focuses on methods to minimise the contamination in water features. It provides specific environmental and operational guidelines for minimising the risk of occurrence of Legionnaires' disease.

APPLICABILITY

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

IMPLEMENTATION

The key aspect of this regulation is to ensure that water features are kept clean and periodic testing for contaminants is carried out. The maintenance, monitoring, treatment requirements, water quality guidance, maximum acceptable legionella bacteria count and sampling for the water features must be followed as stated in the Dubai Municipality Guidelines. This must be carried out by specialised maintenance companies approved by Dubai Municipality.