

6	<b>IEQ</b>	<b>6.2 HYGIENE</b>
		<b>IEQ 3 BIOLOGICAL CONTAMINATION</b>
	<b>EXCLUSIONS</b>	Residential buildings.
	<b>OBJECTIVE</b>	Ensure that the design, installation and facilities for operation and maintenance of air conditioning systems, and water systems and features, are such as to reduce the risk of biological contamination.
	<b>CREDITS ATTAINABLE</b>	1
	<b>PREREQUISITES</b>	None.
	<b>CREDIT REQUIREMENT</b>	1 credit for complying with the recommendations given in the Code of Practice - Prevention of Legionnaires Disease, in respect of air-conditioning and ventilation systems, and water systems.
	<b>ASSESSMENT</b>	<p>The Client shall submit a report prepared by a suitably qualified person detailing how the design and installation of the air-conditioning and ventilation systems and equipment meet with the requirements and recommendation contained in the Code of Practice - Prevention of Legionnaires Disease [1], or at least equal equivalent code. The report shall also detail how water supply, particularly hot water supply, and water use in features such as spas, fountains, etc., are designed and installed in compliance with the Code or Practice.</p>
	<b>BACKGROUND</b>	<p>Most cases of legionnaires' disease (LD) are caused by the bacterium <i>Legionella pneumophila</i>. There are many other species of the organism which have been implicated in human disease, but other milder illnesses may be caused by these organisms. All illnesses due to legionella species are known collectively as 'legionellosis'; Pontiac Fever is one of the milder conditions. <i>Legionella pneumophila</i> is found in natural water supplies and in soil. It is also found in many recirculating and water supply systems.</p> <p>Measurements in a newly completed building are unlikely to reveal problems with biological contamination caused by either air-conditioning and ventilation systems, or water systems. Consequently, BEAM requires the confirmation on the design and installation of systems and equipment to reduce the possibility of problems arising during use of the building.</p>

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1 Prevention of Legionnaires' Disease Committee, Electrical and Mechanical Services Department, Hong Kong Government. Code of Practice for the Prevention of Legionnaires' Disease in Hong Kong. 2007.  
[http://www.emsd.gov.hk/emsd/e\\_download/pps/code.doc](http://www.emsd.gov.hk/emsd/e_download/pps/code.doc)



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### **Updated Exclusion Clauses for IEQ Credits**

1. **Technical Circular Letter No. 2016.134 dated 09 August 2016 will be withdrawn on the effective date.**
2. This Circular Letter clarifies the exclusion clause for the following credits:

Credits	New Exclusions
IEQ P1 IEQ 9	Residential premises, or Premises without any fresh air provision <sup>1</sup> .
IEQ 3	Residential premises, or Premises without any provision of air-conditioning equipment.
IEQ 5	Residential premises, or Premises without any fresh air provision <sup>1</sup> and HVAC system.
IEQ 6	Residential premises, or Premises without any fresh air provision <sup>1</sup> .
IEQ 7a IEQ 7b	Residential premises without any interior decoration, or Premises without any fresh air provision <sup>1</sup> and interior decoration.
IEQ 10	Premises with fresh air provision <sup>1</sup> .
IEQ 11b	Residential premises, or Premises without any future tenant (for example, single owner occupier premises).
IEQ 12	Premises without any enclosed common area in the main circulation route.
IEQ 13a	Normally occupied premises <sup>2</sup> without any air-conditioning equipment installed and provided by the project proponent, or without any fresh air provision <sup>1</sup> .
IEQ 13b	Normally occupied premises <sup>2</sup> without any installation of air diffuser in the air-conditioning system.
IEQ 14a	Normally occupied premises <sup>2</sup> with fresh air provision <sup>1</sup> .
IEQ 14b	Normally occupied premises <sup>2</sup> with fresh air provision <sup>1</sup> , or without any air-conditioning equipment installed and provided by the project proponent.

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Chairperson of Standards Sub-committee

<sup>1</sup> Fresh air provision means any fresh air equipment such as PAU, AHU, FAU, FAP, FAF, etc.; and/or premises with fresh air louvers, etc.

<sup>2</sup> Normally occupied premises are enclosed spaces / areas where people normally stay there for more than 1 hour per person per day on average.