# Microbial Control

### credit 27

### Design Review Submission As Built Submission

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| --- | --- | --- | --- |
| Total Points available: | 1 | Points claimed: | [#] |

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| --- | --- | --- | --- | --- |
|  | Criteria | Description | Points Available | Points Claimed |
| **27** | **Legionella Impacts from Cooling Systems** | The building is either   * Naturally ventilated; or * Has waterless heat-rejection systems; or * Has water-based heat rejection systems that include measures for Legionella control and Risk Management. | 1 |  |

## Project-specific technical questions (formerly tcs and cirs)

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| --- | --- |
| There are no project-specific Technical Questions for this credit. |  |
| There are project-specific Technical Questions for this credit and all responses received from the NZGBC are attached. |  |

27 Legionella Impacts from cooling Systems

|  |  |
| --- | --- |
| **27A Natural Ventilation**  The project meets the requirements of this credit as the building is naturally ventilated and it does not use any water-based cooling system(s). |  |
| **27B Waterless Heat Rejection**  The project meets the requirements of this credit as the building’s cooling system(s) are not water-based. |  |
| **27C Water-Based Heat Rejection System**  A Water-Based Heat Rejection System has been designed to mitigate risks from Legionella appropriate to its climate conditions. |  |

Provide a description of the building’s cooling systems:

27C.1 Where the building includes water-based heat rejection systems:

|  |  |
| --- | --- |
| The Water-Based heat rejection system has been designed and built according to AS/NZS 3666.1:2011 and the Building Act 2004. |  |
| The system is designed and built to maintain constant movement to prevent water stagnation in the system. |  |
| The water contained in the system is never at a temperature between 20°C and 50°C while not moving. |  |
| The system does not release an aerosol spray during operation. |  |

Provide a description of how the water-based cooling system meets the credit criteria including summary of how the system avoids creating an aerosol spray during operation, how it achieves the specified temperatures and how the system prevents water stagnation

|  |  |
| --- | --- |
| 27C.2 A Legionella Risk Management Plan has been provided to the building owner / operator as part of the Building Users Guide and complies with the credit requirements. |  |

Provide a description of the maintenance process for the system.

|  |  |
| --- | --- |
| 27.1C.3 Water stored in the Cooling system is not stored between the range of 20ºC and 50ºC degrees. |  |

Provide a description of the design of the system, and the ongoing operation and maintenance of the system.

Identify where this information can be found within the supporting documentation provided.

|  |  |
| --- | --- |
| **Supporting Documentation** (Name / title / description of document) | **Reference** (Page no. or section) |
| [####] | [####] |
| [####] | [####] |

## DISCUSSION

Outline any issues you would like to highlight and clarify with the Certified Assessor(s).

## DECLARATION

I confirm that the information provided in this document is truthful and accurate at the time of completion.

Provide author details, including name, position and email address:

[Date]

––– **Report end** –––