# Potable Water - prescriptive pathway

### Credit 18B

### Design Review Submission As Built Submission

|  |  |  |  |
| --- | --- | --- | --- |
| Total Points available: | 5 | Points claimed: | [#] |

Up to 5 points out of 10 are available where it is demonstrated that the building’s potable water consumption has been reduced through best practice water saving design features.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Criteria | Description | Points Available | Points Claimed |
| **18B.1** | **Sanitary Fixture Efficiency** | All fixtures are within one star of the best available WELS rating | 1 |  |
| **18B.2** | **Rainwater Reuse** | A rainwater tank is installed to collect and reuse rainwater within the project’s site boundary and the rainwater tank size meets the criteria established in Table Wat-1.1. | 1 |  |
| **18B.3** | **Heat Rejection** | No water is used for heat rejection | 1 |  |
| **18B.4** | **Landscape Irrigation** | Drip irrigation with moisture sensor override is installed; OR | 1 |  |
| No water is used for irrigation. |
| The building has no landscaping (including roof, vertical and planter gardens) or landscaping represents less than 1% of the site area, | NA |  |
| **18B.5** | **Fire System Test Water** | The fire protection system does not expel water for testing; OR | 1 |  |
| When sprinkler systems are installed, each floor must be fitted with isolation valves or shut-off points for floor-by-floor testing. |
| A sprinkler system is not required under the New Zealand Building Code, or  A sprinkler system is not provided by the project team, and does not include a water-based fire protection system. | NA |  |

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

|  |  |
| --- | --- |
| 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. |  |

Please justify if NA is claimed

18B.1 Sanitary Fixture Efficiency

The project is specifying the following fittings which will help it achieve reductions in potable water demand. These fittings are all rated within one star of the WELS rating benchmark:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Item** | **Schedule Code** | **WELS**  **Rating** | **Flowrate**  **(L/min or L/flush)** | **Quantity of fixtures** | **WELS Rating Benchmark** |
| [Toilet A] |  |  |  |  | 5 |
| [Toilet B] |  |  |  |  | 5 |
| [Urinal A] |  |  |  |  | 6 |
| [Urinal B] |  |  |  |  | 6 |
| [Shower A] |  |  |  |  | 3 (> 4.5 but <= 6.0) |
| [Shower B] |  |  |  |  | 3 (> 4.5 but <= 6.0) |
| [Tap A] |  |  |  |  | 6 |
| [Tap B] |  |  |  |  | 6 |
| Dishwasher [A] |  |  |  |  | 6 |
| Washing machine [A] |  |  |  |  | 5 |

Please note: project teams may add more rows as required or use an attachment to display this information.

Please describe fixtures and fittings that are excluded from the compliance and justify the reason.

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

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

18B.2 Rainwater Reuse

|  |  |
| --- | --- |
| The project is installing a rainwater reuse system to collect and reuse rainwater. | ☐ |

Please describe the rainwater reuse system:

|  |  |
| --- | --- |
| **Summary of rainwater reuse system** | |
| **System Component** | **Details** |
| Gross Floor Area (m2) |  |
| Tank size required to meet credit requirements |  |
| Tank Size |  |

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

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

18B.3 Heat Rejection

|  |  |
| --- | --- |
| Naturally Ventilated and Mechanically Assisted Naturally Ventilated Spaces  The project meets the requirements of credit IEQ – Indoor Air Quality for naturally ventilated spaces, and can demonstrate that **95%** of the Usable Floor Area (UFA) is naturally ventilated in accordance with **AS1668.4-2012**. |  |
| No water-based heat rejection system  The project has demonstrated throughout the submission that the air conditioning needs of the project will be effectively met by means other than water-based heat rejection, and that there are no water-based heat rejection systems installed. |  |

Briefly describe the heat rejection system installed for the project:

|  |
| --- |
|  |

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

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

18B.4 Landscape Irrigation

|  |  |
| --- | --- |
| No potable water is used for landscape irrigation |  |
| Landscape irrigation is provided by a drip irrigation system with a moisture sensor override |  |
| A xeriscape garden is being installed and the irrigation system will be removed within three months of landscaping installation and does not require watering after this time. |  |

Briefly describe the landscape irrigation system installed for the project:

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

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

18B.5 Fire protection system test water

|  |  |
| --- | --- |
| The fire protection system within the project does not expel water for testing. OR |  |
| When sprinkler systems are installed, each floor must be fitted with isolation valves or shut-off points for floor-by-floor testing. |  |

Where applicable, provide details of the fire protection testing by completing the table below. The table shall include hydrants, fire-hose reels, storage and sprinkler test tanks and sprinkler-test and drain down points.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Summary of fire protection system testing** | | | | |
| **Test type** | **Frequency** | **Water use**  **per test (kL)** | **Annual water used (kL)** | **Water collected for reuse (kL)** |
|  |  |  |  |  |
|  |  |  |  |  |
| Total Maximum Fire System Test Water | | |  |  |
| Percentage of water reused / recycled (%) | | |  | |

If the tank used to store fire system water is used for other uses, such as rainwater storage, please explain how double counting of water has been avoided.

If the fire protection system does not expel water for testing, described the alternative testing methods:

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 –––