# Refrigerant Impacts

## CREDIT 28

## INDIVIDUAL BUILDING PORTFOLIO

## PROJECT NAME: [NAME]

## PROJECT NUMBER: GS- [####]

|  |  |  |  |
| --- | --- | --- | --- |
| TOTAL POINTS AVAILABLE: | 1 | POINTS CLAIMED: | [#] |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | **Type** | **Criteria** | **Description** | **Claimed** |
| 28.1A | **Building** | **Refrigerant Impacts** | **1 point** is available where one of the following conditions is met:   * The calculated Total System Direct Environmental Impact (TSDEI) of the refrigerant systems in the building is less than 15; * The calculated TSDEI of the refrigerant systems is between 15 and 35, AND a leak detection system is in place; * All refrigerants in the building have an ozone depletion potential of zero, and a global warming potential of 10 or less; OR * There are no refrigerants employed within the building systems. | [#] |
| 28.1B | **Building** | **Green Star Refrigerant Impacts** | **1 point** is available where the building seeking certification has been previously certified under one of the Green Star As Built rating tools, and at least one (1) point was achieved in the relevant ‘Refrigerant Impacts’ credit of the respective rating tool. | [#] |

# Project-specific technical questions

|  |  |
| --- | --- |
| 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 GBCA are attached. |  |

## 28.1A Refrigerant Impacts

|  |  |
| --- | --- |
| The project achieved one (1) point in the previous Certification and **no changes** have been made to the building during the performance period that would have environmental impacts from refrigerants leaking into the environment.  ***No further information is required for this Credit Criterion.*** |  |
| The project achieved one (1) point in the previous Certification and **changes** have been made to the building during the performance period that have had an impact on the environmental impacts from refrigerants leaking into the environment.  ***Complete sections 28.1.1 to 28.1.4 where applicable*** |  |
| One (1) point was not targeted / awarded in the previous Certification.  ***Complete sections 28.1.1 to 28.1.4 where applicable*** |  |

### 28.1A.1 Calculating TSDEI

|  |  |  |
| --- | --- | --- |
| Provide a brief description for each applicable piece of refrigeration equipment that is operational during the performance period and entered into the Refrigerant Impact Calculator. |  | |
| State the Total System Weighted Direct Environmental Impact (TSDEI) calculation result. | |  |
| The completed Refrigerant Impact Calculator is attached. | |  |

### 28.1A.2 Environmental impacts

|  |  |
| --- | --- |
| Please indicate which category applies the project: | |
| There are no refrigerants employed within the building. |  |
| The TSDEI of the refrigerant systems in the building is calculated as less than 15. |  |
| The TSDEI of the refrigerant systems in the building is calculated as between 15 and 35 and a leak detection system complying with 28.1.3 is in place |  |
| All refrigerants have an Ozone depletion potential of zero, and a global warming potential of 10 or less. ***Please complete section 28.1.4.*** |  |

### 28.1A.3 Leak detection systems

|  |  |
| --- | --- |
| If the TSDEI is between 15 and 35, describe how the leak detection systems meet the following requirements.  Reference supporting evidence attached to the submission template e.g. policy document, procedure, section, page no. paragraph no. | |
| 28.1A.3.1 Show that any refrigeration equipment with a cooling capacity above 50kWr is fitted with an automated leak detection system designed in accordance with Section 4.8 and Appendix G of *AS/NZS 1677.2:1998.* |  |
| 28.1A.3.2 Show that an alarm system is operated when a leak is detected, and action to mitigate the leak event is documented. |  |
| 28.1A.3.3 Attach supporting evidence which demonstrates that the leak detection system was operational during the required period. |  |

### 28.1A.4 Low impact Refrigerants

|  |  |
| --- | --- |
| All refrigerants used have an ODP of 0 |  |
| All refrigerants used have a GWP of less than 10 |  |

List the refrigerants found in the project, demonstrating compliance as being low impact:

|  |  |  |
| --- | --- | --- |
| **Refrigerant name/R number** | **GWP** | **ODP** |
|  |  |  |
|  |  |  |
|  |  |  |

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).

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|  |

## 28.1B green star Refrigerant Impacts

|  |  |
| --- | --- |
| The building has a certified Green Star As Built rating. |  |

|  |  |
| --- | --- |
| The building seeking Green Star – Performance certification is already certified under one of the Green Star As Built rating tools, and at least one (1) point was achieved in the relevant ‘Refrigerant Impacts’ credit. |  |

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).

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# 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:

|  |
| --- |
|  |

Click here to enter a date.