# Green Star Short Report Round [1/2]

Ensure all prompts shown in Blue text have been responded to.

Green Star – Office Design v3

Credit: IEQ-1 Ventilation Rates

Project Name: [name]

Project Number: GS- [####]

Points available: 3 Points claimed: [1, 2 or 3]

1. Credit Compliance

IEQ-1 ‘Ventilation Rates’ recognises design that provides ample outdoor air to counteract the build-up of air pollutants. The credit has different compliance pathways for different modes of ventilation. Below is a summary of spaces and how they are ventilated.

Table Schedule of all spaces within the building

|  |  |  |
| --- | --- | --- |
| Space | Area | Mode of Ventilation  (Mechanical, Natural Ventilation, Mixed Mode) |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

### Naturally Ventilated Spaces

The project has demonstrated that [95%] of the NLA is naturally ventilated in accordance with AS1668.2-2002. It is clearly demonstrated that areas nominated as ‘naturally ventilated’ can be occupied without mechanical ventilation, and that no air conditioning has been provided.

Select the approach used to determine the adequate provision of natural ventilation openings as per additional guidance section of the IEQ-1 ‘Ventilation Rates’ credit:

Prescriptive opening size and location

Empirical calculations

Computer modelling

Complete the following tables for all naturally ventilated\* occupied spaces pursuing this option:

Table Schedule of Naturally Ventilated Areas

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Space/Floor | Nominated Area (m2) | Required Opening Size | Opening Provided | Compliant? (Y/N) |
| m2 open area | m2 open area |  |
| [e.g. 1st Floor] | [m2] | [m2] | [m2] | [Y/N] |
| [e.g. Laboratory] |  |  |  |  |
| [e.g. 2nd Floor] |  |  |  |  |

|  |  |
| --- | --- |
| Total nominated area (m2) |  |
| Total compliant area (m2) |  |
| % Area Compliant |  |

[Insert hyperlinks to documents which support these claims]

\*For spaces that use mechanically assisted natural ventilation (MANV) systems are systems that rely, partially or fully, on fans to move natural (non-contaminated) air through the space. For the purpose of this credit, MANV systems must comply with the same criteria as air-conditioned spaces in section 1.2 (to ensure fans are sized to deliver the desired air volumes).

Therefore, as demonstrated in section 1.1, the above listed naturally ventilated areas are eligible to achieve 3 points for demonstrating that at least 95% of the NLA is naturally ventilated.

### 1.2 Mechanically Air-Conditioned Spaces and Mechanically Assisted Naturally Ventilated Spaces

This project has demonstrated that for [95%] of the NLA, outside air is provided at rates greater than the requirements of AS1668.2-1991. An improvement of [50%, 100%, 150%] above the minimum outside rates has been documented.

Complete the following tables for all mechanically ventilated occupied spaces pursuing this option. Determine the minimum ventilation rates from AS1668.2-1991 and percent improvement:

Table Schedule of Mechanically Ventilated Areas

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Air Handling Unit | Space/ Floor | Nominated Area (m2) | AS1668.2-1991 Requirements | | | Project Rates | % Improve-ment | No. of points achieved [1, 2 , 3] |
| Net Floor Area per person | Quantity (L/S/ Person) | Min OA per Space (L/s) | Min OA per Space (L/s) |
| [e.g. AHU – North] | **[e.g. 1st Floor]** | [10m2] | [10m2] | [e.g. 7.5l/s/ person] | [e.g. 75L/s] | [e.g. 115 L/s] | [e.g. 53%] | [e.g. 1 point] |
| [e.g. AHU – North] | **[e.g. Laboratory]** |  |  |  |  |  |  |  |
| [e.g. AHU – North] | **[e.g. 2nd Floor]** |  |  |  |  |  |  |  |

|  |  |
| --- | --- |
| Total nominated area (m2) |  |
| Total compliant area (m2) |  |
| % Area Compliant |  |

Table Air Handling Units Serving Project

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Air Handling Unit | AS1168.2 1991 Min OA requirement (L/s) | Project AHU OA rate (L/s) | % Improvement | No. of point achieved [1, 2, 3] | |
| [e.g. AHU – North] | [e.g. 1st Floor] | [10m2] | [e.g. 53%] | [e.g. Y, 1 point] | |
|  |  |  |  |  |
|  |  |  |  |  |

[Insert hyperlinks to documents which support these claims]

Therefore, as demonstrated in section 1.2, this project is eligible to achieve [1, 2 or 3] points for providing a [50%, 100%150%] improvement in outside air greater then minimum outside air rates for 95% of the NLA.

### 1.3 Mixed Mode Ventilated Spaces

The space or the building uses both natural and mechanical ventilation and independently satisfies the criteria for both naturally ventilated and air-conditioned spaces, regardless of the proportion of time the space operates in either mode. Sections 1.1 and 1.2 have been completed for their associated spaces and supporting documentation provided. Points awarded will be limited to the maximum points awarded under the mechanical ventilation criteria.

Table Schedule of Mixed Mode Areas

|  |  |  |  |
| --- | --- | --- | --- |
| Space/Floor | Nominated Area (m2) | Compliant with Mechanical Ventilation Requirements (Y/N) | Compliant with Natural Ventilation Requirements (Y/N) |
| [e.g. 1st Floor] | [Mechanical Natural] | [Y/N] | [Y/N] |
| [e.g. Laboratory] |  |  |  |
| [e.g. 2nd Floor] |  |  |  |
|  |  |  |  |

|  |  |
| --- | --- |
| Total nominated area (m2) |  |
| Total compliant area (m2) |  |
| % Area Compliant |  |

[Insert hyperlinks to documents which support these claims]

Therefore, as demonstrated in section 1.1 and 1.2, this project is eligible to achieve [1, 2, 3] points for providing both natural ventilation and mechanical ventilation consisting of a [50%, 100%, 150%] improvement in outside air greater then minimum outside air rates for 95% of the NLA.

## Discussion

[Insert any issues you would like to highlight and clarify to the Assessment Panel.]

Author Details:

[Insert name, position and contact details of author]

[Date]

––– **Report end** –––