# acoustic comfort

### Credit 9

### Design Review Submission As Built Submission

|  |  |  |  |
| --- | --- | --- | --- |
| Total Points available: | 3 | Points claimed: | [#] |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name | Description | Points Available | Points Claimed |
| **9.1** | **Internal Noise Levels** | Internal ambient noise levels are suitable and relevant to the activity type in the room. This includes all sound generated by the building systems and any external noise ingress. | 1 |  |
| **9.2** | **Reverberation** | The nominated area has been built to reduce the persistence of sound to a level suitable to the activities in the space. | 1 |  |
| **9.3** | **Acoustic Separation** | The nominated enclosed spaces have been built to minimise crosstalk between rooms and open areas. | 1 |  |

## 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. |  |

## General Information

Provide a description of the nominated area and all relevant internal and external noise sources.

Provide details of any areas that have been excluded for functional reasons.

Provide a description of the design features that ensure that the credit criteria have been met.

If the building is mechanically ventilated, provide confirmation that the mechanical plant and associated equipment were fully operational when the testing was carried out.

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

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

## 9.1 Internal Noise Levels

Select one of the following compliance pathways:

|  |  |  |
| --- | --- | --- |
| **Mechanically Ventilated Spaces** | In the nominated area, ambient sound levels are no more than 5dB(A) above the lower figure in the range recommended in Table 1 of AS/NZ 2107:2016;  **OR** |  |
| **Naturally Ventilated Spaces** | In the nominated area, ambient sound levels are no more than 10dB(A) above the lower figure in the range recommended in Table 1 of AS/NZ 2107:2016. |  |

Complete the following table detailing noise levels as recorded by the Acoustic Consultant or Commissioning team:

|  |  |  |  |
| --- | --- | --- | --- |
| Summary Table | | | |
| Description of Area or Room | Space Type Definition | Acceptable sound limit (**AS/NZS 2107:2016)** | Actual Value |
| [e.g. Level 1 meeting room] | [e.g. office space] | [##] | [##] |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

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

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

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

## 9.2 reverberation

|  |  |
| --- | --- |
| The reverberation time in the nominated area is below the maximum stated ‘Recommended Reverberation Time’ provided in Table 1 of AS/NZ 2107:2016. |  |

Please complete the following table detailing reverberation times as recorded by the Acoustic Consultant or Commissioning team:

|  |  |  |  |
| --- | --- | --- | --- |
| Summary table | | | |
| Description of Area or Room | Space Type Definition | Recommended Reverberation Time (**AS/NZS 2107:2016)** | Actual Value |
| [e.g. Level 1 meeting room] | [e.g. office space] | [##] | [##] |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

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

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

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

## 9.3 acoustic separation

Select one of the following compliance pathways:

|  |  |
| --- | --- |
| **9.3A Sound Reduction Construction** Noise transmission between enclosed spaces has been addressed by the installation of partitions that achieve a weighted sound reduction index (Rw) of: |  |
| At least 45; for all partitions fixed without a door, and/or are glazed partitions without a door; or |  |
| At least 35; for all partition types that contain a door. |  |
| **9.3B Sound Insulation Measurement** Noise transmission between enclosed spaces has been addressed by the installation of partitions, and subsequent measurement, to demonstrate compliance with:  Dw + LAeqT > 75 |  |

Provide a description of areas that have been included to demonstrate compliance with this criterion.

Provide a description of the partitions that have been installed that address noise transmission between enclosed spaces.

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** –––