# acoustic comfort

### Credit 10

### Design Review Submission As Built Submission

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Criteria | Description | Points Available | Points Claimed |
| **10.1** | **Internal Noise Levels** | Internal ambient noise levels are suitable and relevant to the activity type of the room. | 1 |  |
| **10.2** | **Reverberation** | The nominated area has been built to reduce the persistence of sound to a level suitable to the activities of the space. | 1 |  |
| **10.3** | **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. |  |

## 10. General Information

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

Provide a description of the design features that ensure 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 tests were carried out.

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

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

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

|  |  |  |
| --- | --- | --- |
| **Mechanically Ventilated Spaces** | In the nominated area, ambient sound levels are no more than 5dB(A) above 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 2107:2000. |  |

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.

|  |  |
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| **Supporting Documentation** (Name / title / description of document) | **Reference** (Page no. or section) |
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## 10.2 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. |  |

The following Table details reverberation times as recorded by the Acoustic Consultant:

|  |  |  |  |
| --- | --- | --- | --- |
| 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] | [##] | [##] |
|  |  |  |  |
|  |  |  |  |
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|  |  |  |  |

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) |
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## 10.3 acoustic separation

|  |  |
| --- | --- |
| **10.3A** 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 |  |
| **10.3B** Noise transmission between enclosed spaces has been addressed by the installation of partitions that comply with Dw + LAeqT > 75 |  |
| **10.3C** *For residential spaces:*   * The inter-tenancy apartment construction to habitable areas result in airborne noise isolation standard of Rw+Ctr > 55; and * All inter-tenancy walls should include Discontinuous Construction as defined by the Building Code of Australia * Walls between apartments and public corridors results in airborne noise isolation standard of Rw > 55; and * The floor construction above habitable rooms and wet areas of adjacent dwellings (i.e. floor cover) results in an impact isolation standard of Ln,w + CI < 55. * Apartment entry doors include acoustic seals and achieve laboratory acoustic rating of Rw 30. |  |

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

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 for 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** –––