# 12 Acoustic Comfort

Healthy

## Submission information

Provide the following information for the submission

|  |  |
| --- | --- |
| **Submission type** | Choose an item. |
| **Performance level targeted** | [ ]  Minimum Expectation |
| [ ]  Credit Achievement |
| **Points targeted** | Click or tap here to enter text. |

#### ***Please ensure the regular occupied area section is completed.***

#### Technical Questions

|  |  |
| --- | --- |
| There are project-specific technical questions for this credit and all responses received from the GBCA are included in the submission. | Choose an item. |

#### Changes between Rounds

If applicable, please use the text box below to explain any changes between Round 1 and Round 2. This is an opportunity for the GSAP to describe how they have addressed the Assessors comments in Round 2.

Click or tap here to enter text.

## Submission template

### Minimum Expectation

#### Acoustic Comfort Strategy

|  |  |
| --- | --- |
| **An Acoustic Comfort Strategy has been prepared, describing how the building design will deliver acoustic comfort to the building occupants.** | Choose an item. |
| **Indicate where the following requirements have been addressed in the Acoustic Comfort Strategy (provide references to documentation):** | Choose an item. |
| * Quiet enjoyment of space
 | Click or tap here to enter text. |
| * Functional use of space
 | Click or tap here to enter text. |
| * Control of intrusive or high levels of noise
 | Click or tap here to enter text. |
| * Privacy
 | Click or tap here to enter text. |
| * Noise transfer
 | Click or tap here to enter text. |
| * Speech intelligibility
 | Click or tap here to enter text. |
| **Indicate where the following requirements have been included in the Acoustic Comfort Strategy (provide references to documentation):** |
| * A summary of the Standards, legislation, guidelines and other requirements that apply to the project
 | Click or tap here to enter text. |
| * The proposed performance metrics for each of the Acoustic Comfort criteria relevant to the different uses within the building and whether this exceeds minimum legislative or best practice guidelines
 | Click or tap here to enter text. |
| * Description of how the design solution is intended to achieve the proposed performance metrics
 | Click or tap here to enter text. |

## Discussion

Narratives will help the Assessors understand how the project complies with the credit. Please include a narrative below, but note that simply listing the credit requirements is not helpful. Instead, outline any other issues that need to be considered by the Assessment Panel.

Click or tap here to enter text.

#### Supporting documentation

Identify where evidence supporting the information provided can be found in the documentation.

|  |  |  |
| --- | --- | --- |
| Document name | Document description | Page number(s) |
| Click or tap here to enter text. | Click or tap here to enter text. | Click or tap here to enter text. |
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### Credit Achievement

#### Maximum Internal Noise Levels

|  |
| --- |
| **Internal ambient noises levels in the regularly occupied areas are no greater than the upper range value relevant to the activity type in each space as recommended in AS/NZS 2107:2016.** |[ ]
| **Outline any services under the direct control of the occupant which have been excluded for the internal ambient noise levels.**Click or tap here to enter text. |
| **Noise levels do not exceed the recommended Sleep Disturbance criteria as defined in the policy.** |[ ]
| **Outline the noise events which comply with the Sleep Disturbance criteria.**Click or tap here text. | Click or tap here to enter text. |

## Discussion

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| Click or tap here to enter text. | Click or tap here to enter text. | Click or tap here to enter text. |
| Click or tap here to enter text. | Click or tap here to enter text. | Click or tap here to enter text. |

#### Minimum Internal Noise Levels

|  |
| --- |
| **Internal ambient noises levels in the regularly occupied areas are no less than the 5 dB below the lower range value relevant to the activity type in each space as recommended in AS/NZS 2107:2016.** |[ ]
| **Demonstrate that noise measurements account for all internal and external noise.**Click or tap here to enter text. |
| **Enter the number of measurements made for open plan spaces per 100 m2.** | Click or tap here to enter text. |
| **Enter the percentage of enclosed rooms tested.** | Click or tap here to enter text. |
| **Demonstrate that the selection of representative spaces is justified and considers how the spaces are considered to be the most conservative with respect to both internal and external noise sources.**Click or tap here to enter text. |
| **Demonstrate that noise requirements were achieved with all windows/openings closed.**Click or tap here to enter text. |
| **Outline the results of measurements when the windows/openings were open to no less than 10% of the minimum natural ventilation area required for the ventilation design of the building.**Click or tap here to enter text. |
| **Outline how the project has been designed to minimise external noise intrusion in this configuration.**Click or tap here to enter text. |

## Discussion

Narratives will help the Assessors understand how the project complies with the credit. Please include a narrative below, but note that simply listing the credit requirements is not helpful. Instead, outline any other issues that need to be considered by the Assessment Panel.

Click or tap here to enter text.

#### Supporting documentation

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| Document name | Document description | Page number(s) |
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| Click or tap here to enter text. | Click or tap here to enter text. | Click or tap here to enter text. |
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#### Acoustic Separation

|  |
| --- |
| **Privacy between enclosed spaces within the regularly occupied area has been provided.** |
| **For Class 2 and Class 3 spaces, the following requirements have been met:** |
| * All walls and floors separating enclosed spaces exceed the minimum NCC requirements by 5 points.
 | Choose an item. |
| * Party walls separating open plan kitchens from another open plan kitchen/living room are discontinuous in construction.
 | Choose an item. |
| * Entry doors have perimeter and threshold seals.
 | Choose an item. |
| **For all other spaces, the following requirements have been met:** |
| * The sound insulation between internal spaces complies with Dw + LAeqT > X
 | Choose an item. |
| * Provide a summary of sound insulation results between internal spaces.
 | Click or tap here to enter text. |
| * Outline the sound tests, which Dw is derived from.

Click or tap here to enter text. |
| **Partition between spaces have been constructed to achieve the relevant weight sound reduction indices.** |
| * Provide a summary of the weighted sound reduction indices for the partition within the spaces.

Click or tap here to enter text. |

## Discussion

Narratives will help the Assessors understand how the project complies with the credit. Please include a narrative below, but note that simply listing the credit requirements is not helpful. Instead, outline any other issues that need to be considered by the Assessment Panel.

Click or tap here to enter text.

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#### Impact Noise Transfer

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| --- |
| **Impact noise transfer through a floor are measured in accordance with ISO 16283-1.** |[ ]
| **Outline the impact noise transfer measurements and results for floors located above nominated spaces.**Click or tap here to enter text. |
| **Outline the impact noise transfer measurements and results for adjacent spaces belonging to different tenancies which share a floor.**Click or tap here to enter text. |

## Discussion

Narratives will help the Assessors understand how the project complies with the credit. Please include a narrative below, but note that simply listing the credit requirements is not helpful. Instead, outline any other issues that need to be considered by the Assessment Panel.

Click or tap here to enter text.

#### Supporting documentation

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#### Reverberation Control

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| --- | --- |
| **Reverberation time in the regularly occupied area does not exceed the maximum stated in AS/NZS 2107:2016.** | Choose an item. |
| **Outline any acoustic absorption provided in noise sensitive spaces.**Click or tap here to enter text. |
| **Demonstrate that acoustic absorption has been applied in locations appropriate to the function of the space and maximises acoustic performance of materials selected.**Click or tap here to enter text. |
| **Enter the percentage of spaces in the regularly occupied areas where measurements were made.** | Click or tap here to enter text. |
| **Demonstrate that the selection of representative spaces is justified and considers how the spaces are considered to be the most conservative.**Click or tap here to enter text. |

## Discussion

Narratives will help the Assessors understand how the project complies with the credit. Please include a narrative below, but note that simply listing the credit requirements is not helpful. Instead, outline any other issues that need to be considered by the Assessment Panel.

Click or tap here to enter text.

#### Supporting documentation

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## Regular Occupied Area

The area of a building(s) relevant to particular credit. The definition of Regularly occupied areas varies across different Green Star tools, and is uniquely defined within particular credits.

#### Primary Space

All areas where a person is expected to work, or remain for an extended period of time, including, but not limited to:

- Offices, either open plan or private;

- Residential lounge rooms and bedrooms;

- Classrooms, laboratories, computer labs;

- Ward rooms, nurse’s stations, clinic rooms;

- Kitchen and preparation areas where food is being sold;

- Retail / sales floor, exhibition halls, galleries (unless exclusion is justified), multi-purpose rooms (as a general setting); and

- Occupied areas within industrial buildings such as manufacturing spaces, shop floors and work stations. Warehouse and distribution spaces are considered primary space only if the majority of the space is an area where people expected work, or remain for an extend period of time.

The predominant use of the space determines the space type classification. Where the functional requirements of the space demand specific ventilation conditions (e.g. laboratories, auditoriums, cinemas, or archives) the exclusion must be justified by the project team in a Technical Question.

#### Secondary Areas

All areas used to support the principal activity of the primary space. These spaces will be regularly occupied, however a single person is unlikely to remain within for more than two hours. Examples of secondary space include:

- Meeting rooms, boardrooms;

- Residential kitchens and bathrooms;

- Auditoriums, gyms, seminar rooms (if not intended for regular classes);

- Waiting rooms, and any diagnostic area where no specific lighting requirements exist;

- Cafeterias, restaurants, seating areas, office breakout areas, food courts

Where the project team is unsure of whether a space is primary or secondary, it is recommended that the project team either submits a Technical Question for confirmation, or classify the space as a primary space.

Corridors that are exclusively used for transit between spaces (i.e. do not act as a foyer, lounge, waiting space, or reception), and are bound on both sides by a wall these are excluded from the nominated area. Where a corridor is part of a shared space, this corridor, or section of a corridor, cannot be excluded and is considered part of the adjacent space.

#### Tertiary Space

All areas which are either transient spaces, or accessed intermittently. Examples of tertiary spaces include:

- Back of house areas;

- Corridors;

- Hallways;

- Plant rooms;

- Storage facilities, storerooms, storehouses, depots or similar;

- Warehouse and distribution spaces if they are unoccupied.

- Service riser

Project teams can choose to submit a Technical Question to have their identification of spaces types in their project confirmed.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Building Space Name and Identifier  | Area(m2) | Sum Area(m2) |
| Primary Space |  |  |  |
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| Secondary Space |  |  |  |
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| Tertiary Space |  |  |  |
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| **Total Gross Gloor Area (GFA)** | Click or tap here to enter text. |

**\*If the project team has already populated the project summary GFA in another Submission Template, please paste it here.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Acoustic Comfort**  | **Primary, secondary or tertiary** | Occupied Area (m2) | Discussion (If any) |
| Acoustic Report |  |  |  |
| Maximum Internal Noise Levels |  |  |  |
| Acoustic Separation |  |  |  |
| Impact Noise Transfer |  |  |  |
| Reverberation Control |  |  |  |

**\*For any exclusions to the occupied areas, please submit a TQ to** **greenstarnz@nzgbc.org.nz** **for approval.**

## Declaration

Provide the following details as confirmation that the information provided in this document is truthful and accurate at the time of completion.

|  |  |
| --- | --- |
| **Name** | Click or tap here to enter text. |
| **Position** | Click or tap here to enter text. |
| **Email** | Click or tap here to enter text. |
| **Date** | Click or tap to enter a date. |