LEED v4 BD+C: New Construction

Acoustic Performance

Upload the completed Acoustic Performance Calculator (found under the credit's "Resources" tab in the Credit Library) or equivalent documentation.

HVAC Background Noise

Select one or more of the following. Indicate which method(s) was used to demonstrate maximum noise level:

- ☐ **ASHRAE measurements.** Sound pressure levels were measured per 2011 HVAC Applications ASHRAE Handbook, Chapter 48, Noise and Vibration Control.
- ☐ **ASHRAE calculations.** Sound pressure levels were calculated per 2011 HVAC Applications ASHRAE Handbook, Chapter 48, Noise and Vibration Control.
- ☐ **AHRI calculations.** Sound pressure levels were calculated per AHRI Standard 885-2008, Procedure for Estimating Occupied Space Sound Levels in the Application of Air Terminals and Air Outlets.
- ☐ **Local equivalent.** A local standard, procedure, or handbook has been utilized that is equivalent to one of the above methods.

Upload background noise reduction methods - For all sound transmission paths from sound sources included in the project, attach a narrative explaining how the noise reduction methods from ASHRAE 2011 Applications Handbook, Table 6 were implemented for the occupied spaces impacted by the sound source.

Sound Transmission

Upload documentation describing the sources of the sound transmission information reported in the Acoustic Performance Calculator. Clarify whether the sound transmission information is calculated or measured. Explain construction details to demonstrate how the STC ratings will be achieved.

Reverberation Time

Upload reverberation time documentation, If not included in other uploads, provide documentation describing the sources of the reverberation time values. If values are calculated, explain calculation methods. If values are measured, explain the measurement methods.

Sound Reinforcement and Masking Systems

For projects with large conference rooms and auditoriums

Table: Spaces to consider sound reinforcement

Complete the table below with all large conference rooms and auditoriums in the project. Conference rooms and auditoriums are considered large if they seat more than 50 persons.

Room Description	Sound Reinforcement Used
	☐

Describe how sound reinforcement was considered for the spaces listed in the table above. If sound reinforcement is used, explain the speech transmission index (STI) or common intelligibility scale (CIS) rating achieved, the sound level, and the sound-level coverage at the 2000 Hz octave band.

Note: Sound reinforcement systems must have a minimum STI of 0.60 or CIS rating of 0.77 at representative points within the area of coverage, have a minimum sound level of 70 dBA, and maintain sound-level coverage within +/- 3 dB at the 2000 Hz octave band throughout the space.

For projects with masking systems

Describe all masking systems used in the project. Include the design levels for the masking systems and information about the loudspeaker coverage and whether the speech spectra are effectively masked.

Note: The design levels for the masking systems must not exceed 48 dBA. The loudspeaker coverage must provide uniformity of +/–2 dBA

Special Circumstances

Describe the circumstances limiting the project team's ability to provide the submittals required in this form. Be sure to reference what additional documentation has been provided, if any. Non-standard documentation will be considered upon its merits. (Optional)

Upload any additional documentation that supports the claim to special circumstances. (Optional)

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