



LEED 2009 for New Construction and Major Renovations

IEQ PREREQUISITE 1: MINIMUM INDOOR AIR QUALITY PERFORMANCE

All fields and uploads are required unless otherwise noted.

ALL OPTIONS

This static sample form has been modified for offline access. All sections of the form are visible. Sample forms are for reference only.

Select all that apply to the project building:

- ☐ The project building is mechanically ventilated, in part or in whole.
- ☐ The project building is naturally ventilated, in part or in whole.
- ☐ The project building is mechanically conditioned, in part or in whole.
- ☐ The project building is naturally conditioned, in part or in whole.

The project meets Sections 4 through 7 of ASHRAE 62.1-2007, Ventilation for Acceptable Indoor Air Quality.

Signatory

Initial here:

Note: For projects with mechanical ventilation and natural ventilation, complete the Mechanical Ventilation section for all mechanically ventilated spaces, and the Natural Ventilation section for all naturally ventilated spaces.

A floor plan for the project building indicating the areas served by a combination of natural and mechanical ventilation or conditioning systems is required to demonstrate credit compliance. The representative floor plans for the project building upload below is a linked submittal. If one is not present, you may upload one now.

Upload L-1. Representative floor plan(s) for the project building.

Select one of the following:

- ☐ The floor plan above shows the areas served by a combination of natural and mechanical ventilation or conditioning systems.
- ☐ A different document is better suited to satisfy the requirement.

Upload L-1.1. Floor plan for the project building indicating the areas served by a combination of natural and mechanical ventilation or conditioning systems.

MECHANICAL VENTILATION

- ☐ Mechanical ventilation systems are designed using local code, which is more stringent than the ASHRAE Standard 62.1-2007 Ventilation Rate Procedure. (Optional)

Upload IEQp1-1. Local code requirements, comparison of the local code vs. ASHRAE Standard 62.1-2007 Ventilation Rate Procedure, and ventilation rate calculations including the design outdoor ventilation rate.

Complete the following table for each mechanically ventilated space in the project building.

Table IEQp1-1. Ventilation Rate Procedure

AHU	Zone	Occupancy Category	Rp (cfm / person)	Ra (cfm/sf)	Occupant Density		Az (sf)	Vbz (cfm)	Ez	Voz (cfm)	Ev	Vot (cfm)
					Default	#/1000sf						
					<input type="checkbox"/> Yes							

Note: Refer to ASHRAE Standard 62.1-2007 Ventilation Rate Procedure and ASHRAE 62MZCalc spreadsheet for detailed definitions and calculation procedures.

Table IEQp1-2. Outdoor Air Flow

AHU	Zone	Occupancy Category	Vot (cfm)	Design OA Intake Flow (cfm)	Zone Complies with IEQp1	Zone Complies with IEQc2
Compliance with IEQ Prerequisite 1: Note: The design outdoor air intake flow for all zones must be equal to or greater than the outdoor air ventilation rate required by ASHRAE Standard 62.1-2007, ventilation rate procedure.						
Compliance with IEQ Credit 2: Note: The design outdoor air intake flow for all zones must be 30% greater than the minimum outdoor air ventilation rate required by ASHRAE Standard 62.1-2007, ventilation rate procedure.						

NATURAL VENTILATION

☐ The space is an engineered natural ventilation system approved by the authority having jurisdiction. The project takes an exception to the prescriptive requirements of ASHRAE Standard 62.1-2007 sections 5.1.1 and 5.1.2.

Upload IEQp1-2. Regulatory approval letter or document indicating the engineered system has been approved by the authority having jurisdiction.

Upload L-14. Graphic and numeric summary of the airflow analysis performed. Include the boundary conditions used for the analysis, simulation algorithm, solution variables, temperatures, airflow volumes and mean age of air for the spaces modeled.

Complete the following table for each naturally ventilated space in the project building.

Table IEQp1-3. Natural Ventilation Floor/Window Ratio

Room Name or ID	Occupiable Floor Area (sf)	Description of Operable Window Openings	Openable Window Area ¹ (sf)	Ratio of Window Area to Occupiable Area (%)	Is the Window to Occupiable Area Ratio Sufficient?	Is the Entire Occupiable Area Within 25' of the Window(s)?	Zone Complies with IEQp1
Compliance with IEQ Prerequisite 1: Note: Naturally ventilated spaces shall be permanently open to and within 8 m (25 ft) of operable wall or roof openings to the outdoors, the openable area of which is a minimum of 4% of the net occupiable floor area to meet the requirements of the prerequisite.							

1. Openable window area is the area of operable window that can open to the outside.

ADDITIONAL DETAILS

- ☐ Special circumstances preclude documentation of prerequisite compliance with the submittal requirements outlined in this form.

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.

Upload IEQp1-SC. Provide additional documentation that supports the claim to special circumstances. (Optional)

- ☐ The project team is using an alternative compliance approach in lieu of standard submittal paths.

ALTERNATIVE COMPLIANCE PATH

Describe the alternative compliance path used by the project team. Include justification that this path meets the prerequisite intent and requirements. Be sure to reference what additional documentation has been provided, if any. Non-standard documentation will be considered upon its merits.

Upload IEQp1-ACP. Provide additional documents that support the alternative compliance path approach. (Optional)

SUMMARY

IEQ Prerequisite 1: Minimum Indoor Air Quality Performance
Compliance Documented: