



LEED 2009 for Existing Buildings: Operations & Maintenance

IEQ CREDIT 2.3: OCCUPANT COMFORT

THERMAL COMFORT MONITORING

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.

Performance period start:

Invalid Date range: The performance period must be between 89 and 731 days, and must end within 90 days of the overall project performance period given in the Project Information section.

Performance period end:

Air temperature and humidity are continuously monitored in occupied spaces. The maximum sample interval for continuous monitoring is 15 minutes.

Signatory

Initial here:

Describe how air speed and mean radiant temperature are periodically measured in occupied spaces. Indicate the frequency with which measurements are taken, the instrumentation utilized, and how data points are captured and analyzed against thermal comfort criteria.

Describe the procedures that deliver prompt adjustments or repairs in response to problems identified with the thermal conditions. Explain how the monitoring/testing data is used to optimize the systems that regulate indoor comfort conditions in the project building.

A Licensed Professional Exemption (LPE) is available for Professional Engineers in lieu of providing reports generated from the monitoring process.

Select one of the following:

- ☒ Streamlined path: LPE (PE).
- ☐ Full Documentation.

NOTE: For each Licensed Professional Exemption claimed, the relevant licensed professional must complete the corresponding Exemption Signature on the Licensed Professional Exemptions tab in order to be considered a valid submittal.

Licensed Professional Exemption claimed by:

Upload IEQc2.3-1. Upload a summary calibration report and system testing dated within the manufacturer recommended interval, as measured from the conclusion of the performance period, to verify proper functioning of the system sensors and actuators during the performance period. If the manufacturer recommended calibration period is not required during the performance period, upload information to substantiate this (e.g., manufacturer cutsheet information, installation date, etc.).

Files:

Upload IEQc2.3-2. Upload a report on air speed and mean radiant temperature from at least one set of measurements taken during the performance period. The report shows whether the measurements met the required comfort criteria.

Files:

Select one of the following:

- ☐ **Upload IEQc2.3-3.** Upload trend graphs covering at least one week of operation for at least 20% of the air temperature sensors and 20% of the relative humidity sensors.
- ☐ **Upload IEQc2.3-4.** Upload trend graphs covering at least one week of operation, showing the air temperature and relative humidity readings in at least 20% of the occupied building floor area.
- ☐ **Upload IEQc2.3-5.** Upload a summary system report of all alarms that occurred during the performance period when temperature and humidity fell outside of acceptable ranges.

ADDITIONAL DETAILS

- ☐ Special circumstances preclude documentation of credit 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 IEQc2.3-SC. Upload any additional documentation that supports the claim to special circumstances. (Optional)

Files:

- ☐ 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 credit 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 IEQc2.3-ACP. Upload any additional documents that support the alternative compliance path approach. (Optional)

Files:

SUMMARY

IEQ Credit 2.3: Occupant Comfort - Thermal Comfort Monitoring Points Documented: