

LEED v5 Supports the Indoor Air Quality Procedure (IAQP)

smartIAQ® Offers a Path to 4+ Credits

Background

LEED v5 of the U. S. Green Building Council (USGBC) building rating system accepts ventilation designs using the Indoor Air Quality Procedure (IAQP) from ASHRAE 62.1-2022. LEED v5 accepts Ventilation Rate Procedure and IAQP designs as prerequisites for fundamental air quality -- upon which credits may be added.

Prerequisite: Fundamental Air Quality (EQp2)

Design must follow the requirements of ASHRAE Standard 62.1-2022 Sections 5 and 6 including the IAQP. Filtration in the system must meet the requirements listed - MERV13, or ePM1 50%, or in room air cleaning where systems are tested for effectiveness per ASHRAE 62.1-2022 Addendum N. *smartIAQ models comply with 62.1 Addendum N testing requirements.*

Indoor Environmental Quality Credit: Enhanced Air Quality (EQp1)

Design for lower concentrations (below 62.1 IAQ Procedure) for enhanced IAQ. *The smartIAQ calculator supports validation to lower thresholds and smartIAQ is configurable to lower PM and formaldehyde limits. UL2998 and lower outdoor air meet the ozone limit.* Enhanced IAQ limits:

Design Compound or PM2.5	Enhanced IAQP Design Limit	smartIAQ Support
PM2.5	10 µg/m ³	default limit is 9 µg/m ³
Formaldehyde	20 µg/m ³	configure to lower limit
Ozone	10 ppb (~20 µg/m ³)	O.A. reduction with 98% Ef filter

Indoor Environmental Quality Credit: Management Mode for Episodic Outdoor Ambient Conditions (EQc4)

Design with the capability to address outdoor events that negatively influence IAQ such as wildland fire smoke. *smartIAQ filtration enhances PM2.5 and TVOCs removal. If BMS integrated, coordinate longer operating time & airflow in with less polluted outdoor air.*

Indoor Environmental Quality Credit: Resilient Spaces - Management Mode for Respiratory Diseases (EQc4) (1pt)

Design spaces to operate in an infection risk management mode per ASHRAE 241-2023.

smartIAQ models with MERV13A (or higher) filtration complies for both safety and efficiency portions of the standard

Indoor Environmental Quality Credit: Continuous Indoor Air Quality Monitoring (EQc5) (1pt)

Provide indoor air monitors for CO₂, PM2.5, TVOC, Temperature, and Relative Humidity. *smartIAQ systems have integrated sensors. Note: USGBC directs sensors to be located between 3 and 6 feet above the floor - smartIAQ sensors are integrated and provide accurate measures of recirculated air not potentially stagnant air on a wall.*

Additional Credits

Following the IAQP per Standard 62.1-2022 directs validating air quality via third-party laboratory testing. These testing standards may provide a point for Pre-Occupancy Air Testing under the EQc5 credit as well.

Note: USGBC, LEED, LEED v5, ASHRAE are the property of their respective owners. GPS Air attempts to properly describe the "standards" but does not represent or guarantee smartIAQ achieves credits in every application. If any of this information is found to be in error, GPS Air requests notification via email marketing@gpsair.com