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- EQ101 | Minimum indoor air quality performance
  - EAc3.2 | Construction IAQ management plan, before occupancy
  - EQ1.1 | Indoor air quality management program
  - EQ1.2 | Outdoor air delivery monitoring
  - EQ1.3 | Increased ventilation
  - EQ1.4 | Reduce particulates in air distribution
  - EQ10 | Acoustic performance
  - EQ101 | Minimum indoor air quality performance
  - EQ101 | Minimum indoor air quality performance
  - EQ101 | Minimum indoor air quality performance
  - EQ101 | Minimum indoor air quality performance
  - EQ101 | Minimum indoor air quality performance
  - EQ101 | Minimum indoor air quality performance
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  - EQ101 | Minimum indoor air quality performance
  - EQ101 | Minimum indoor air quality performance
  - EQ103 | Minimum indoor air quality performance
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  - EQ103 | Minimum indoor air quality performance
  - EQ103 | Minimum indoor air quality performance
  - EQ103 | Minimum indoor air quality performance
  - EQ103 | Minimum indoor air quality performance
  - EQ103 | Minimum indoor air quality performance
  - EQ104 | Environmental tobacco smoke control
  - EQ104 | Environmental Tobacco Smoke Control
  - EQ104 | Environmental Tobacco Smoke Control
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  - EQ104 | Environmental tobacco smoke control
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  - EQ104 | Environmental Tobacco Smoke Control
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  - EQ104 | Environmental tobacco smoke control
  - EQ104 | Environmental tobacco smoke control
  - EQ106 | Environmental tobacco smoke control
  - EQ106 | Environmental Tobacco Smoke Control
  - EQ106 | Environmental tobacco smoke control
  - EQ106 | Environmental Tobacco Smoke Control
  - EQ106 | Environmental Tobacco Smoke Control
  - EQ106 | Environmental Tobacco Smoke Control
  - EQ107 | Minimum acoustic performance
  - EQ108 | Green cleaning policy
  - EQ109 | Indoor air quality management program
  - EQ11 | Visitability and universal design
  - EQ110 | Enhanced indoor air quality strategies
  - EQ110 | Enhanced indoor air quality strategies
  - EQ110 | Enhanced indoor air quality strategies
  - EQ110 | Enhanced indoor air quality strategies
  - EQ110 | Enhanced indoor air quality strategies
  - EQ110 | Enhanced indoor air quality strategies
  - EQ111 | Enhanced indoor air quality strategies
  - EQ111 | Enhanced indoor air quality strategies
  - EQ111 | Enhanced indoor air quality strategies
  - EQ111 | Enhanced indoor air quality strategies
  - EQ112 | Low emitting materials
  - EQ112 | Low-emitting materials
  - EQ112 | Low-emitting materials
  - EQ113 | Construction indoor air quality management plan
  - EQ113 | Construction indoor air quality management plan
  - EQ113 | Construction indoor air quality management plan
  - EQ114 | Indoor air quality assessment
  - EQ114 | Indoor air quality assessment
  - EQ115 | Thermal comfort
  - EQ115 | Thermal comfort
  - EQ115 | Thermal comfort
  - EQ115 | Thermal comfort
  - EQ115 | Thermal comfort
  - EQ115 | Thermal comfort
  - EQ115 | Thermal comfort
  - EQ115 | Thermal comfort
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  - EQ116 | Thermal comfort
  - EQ116 | Thermal comfort
  - EQ116 | Thermal comfort
  - EQ116 | Thermal comfort
  - EQ116 | Thermal comfort
  - EQ116 | Thermal comfort

- EQ117 | Interior lighting
- EQ117 | Interior lighting
- EQ117 | Interior lighting
- EQ118 | Interior lighting
- EQ119 | Interior lighting
- EQ120 | Interior lighting
- EQ120 | Interior lighting
- EQ121 | Daylight
- EQ121 | Daylight
- EQ121 | Daylight
- EQ121 | Daylight
- EQ122 | Daylight and quality views
- EQ122 | Daylight and quality views
- EQ122 | Daylight and quality views
- EQ123 | Quality Views
- EQ123 | Quality Views
- EQ123 | Quality views
- EQ123 | Quality views
- EQ123 | Quality views
- EQ124 | Acoustic performance
- EQ124 | Acoustic performance
- EQ125 | Green cleaning - custodial effectiveness assessment
- EQ126 | Green cleaning - products and materials
- EQ127 | Green cleaning - equipment
- EQ128 | Integrated pest management
- EQ129 | Occupant comfort survey
- EQ131 | Acoustic Performance
- EQ2.1 | Construction indoor air quality management plan
- EQ2.2 | Construction indoor air quality assessment
- EQ3.1 | High performance green cleaning program
- EQ3.2 | Custodial effectiveness assessment
- EQ3.3 | Sustainable purchasing of cleaning products and materials
- EQ3.4 | Sustainable purchasing of cleaning equipment
- EQ3.5 | Indoor chemical and pollutant source control
- EQ3.6 | Indoor integrated pest management
- EQ4 | Low-emitting interiors
- EQ5.1 | Occupant comfort survey
- EQ5.2 | Documenting productivity impacts
- EQ6.1 | Thermal comfort - design
- EQ6.2 | Thermal comfort - controllability
- EQ6.3 | Thermal comfort - verification
- EQ6.4 | Mold prevention
- EQ7.1 | Interior lighting - design
- EQ7.2 | Interior lighting - controllability
- EQ8 | Daylight
- EQ9 | Quality views
- EQ907 | Acoustic performance
- EQc1 | EPA Indoor airPLUS
- EQc1 | Outdoor air delivery monitoring
- EQc1 | Outdoor air delivery monitoring
- EQc1 | Outdoor air delivery monitoring
- EQc1 | Outdoor air delivery monitoring
- EQc1 | Outdoor air delivery monitoring
- EQc1 | Carbon dioxide (CO2) monitoring
- EQc1 | Carbon dioxide (CO2) monitoring
- EQc1 | Outdoor air delivery monitoring
- EQc1 | Outdoor air delivery monitoring
- EQc1 | Outdoor air delivery monitoring
- EQc1 | Outdoor air delivery monitoring
- EQc1 | Enhanced ventilation
- EQc1 | Outdoor air delivery monitoring
- EQc1.1 | Indoor air quality best management practices - indoor air quality management program
- EQc1.1 | IAQ best management practices - IAQ management program
- EQc1.2 | Indoor air quality best management practices - outdoor air delivery monitoring
- EQc1.2 | IAQ best management practices - outdoor air delivery monitoring
- EQc1.3 | Indoor air quality best management practices - increased ventilation
- EQc1.3 | IAQ best management practices - increased ventilation
- EQc1.4 | Indoor air quality best management practices - reduce particulates in air distribution
- EQc1.4 | IAQ best management practices - reduce particulates in air distribution
- EQc1.5 | Indoor air quality best management practices - indoor air quality management for facility additions and alterations
- EQc1.5 | IAQ best management practices - management for facility alterations and additions
- EQc10 | Garage pollutant protection
- EQc10 | Mold prevention
- EQc10 | Mold prevention
- EQc10.1 | Green cleaning - entryway systems
- EQc10.2 | Green cleaning - isolation of janitorial closets
- EQc10.3 | Green cleaning - low environmental impact cleaning policy
- EQc10.4 | Green cleaning - low environmental impact pest management policy
- EQc10.5 | Green cleaning - low environmental impact pest management policy
- EQc10.6 | Green cleaning - low environmental impact cleaning equipment policy
- EQc2 | Combustion venting
- EQc2 | Acoustic environment
- EQc2 | Increased ventilation
- EQc2 | Increased ventilation
- EQc2 | Increased ventilation
- EQc2 | Increased ventilation
- EQc2 | Increased ventilation
- EQc2 | Ventilation effectiveness
- EQc2 | Increase ventilation effectiveness
- EQc2 | Increased ventilation
- EQc2 | Increased ventilation
- EQc2 | Increased ventilation
- EQc2 | Contaminant control
- EQc2 | Contaminant control

- EQc2 | Increased ventilation
- EQc2.1 | Occupant comfort - occupant survey
- EQc2.1 | Occupant comfort - occupant survey
- EQc2.2 | Controllability of systems - lighting
- EQc2.2 | Occupant comfort - occupant-controlled lighting
- EQc2.3 | Occupant comfort - thermal comfort monitoring
- EQc2.3 | Occupant comfort - thermal comfort monitoring
- EQc2.4 | Daylight and views
- EQc2.4 | Occupant comfort - daylight and views
- EQc2.5 | Occupant comfort - daylight and views
- EQc3 | Moisture control
- EQc3 | Construction IAQ management plan
- EQc3 | Construction IAQ management plan - during construction
- EQc3 | Balancing of heating and cooling distribution systems
- EQc3 | Construction IAQ management plan - during construction
- EQc3 | Construction IAQ management plan - during construction
- EQc3.1 | Green cleaning - high performance green cleaning program
- EQc3.1 | Construction IAQ management plan - during construction
- EQc3.1 | Green cleaning - high-performance cleaning program
- EQc3.1 | Construction IAQ management plan - during construction
- EQc3.1 | Construction IAQ management plan: during construction
- EQc3.1 | Construction IAQ management plan - during construction
- EQc3.1 | Construction IAQ management plan - during construction
- EQc3.1 | Construction IAQ management plan: during construction
- EQc3.1 | Construction IAQ management plan, during construction
- EQc3.1 | Construction IAQ management plan - during construction
- EQc3.1 | Construction IAQ management plan - during construction
- EQc3.1 | Construction IAQ management plan - during construction
- EQc3.1 | Construction IAQ management plan - during construction
- EQc3.1 | Construction IAQ management plan - during construction
- EQc3.1 | Construction IAQ management plan - during construction
- EQc3.2 | Green cleaning - custodial effectiveness assessment
- EQc3.2 | Construction IAQ management plan - before occupancy
- EQc3.2 | Construction IAQ management plan - before occupancy
- EQc3.2 | Construction IAQ management plan - before occupancy
- EQc3.2 | Construction IAQ management plan - before occupancy
- EQc3.2 | Construction IAQ management plan - before occupancy
- EQc3.2 | Construction IAQ management plan - before occupancy
- EQc3.2 | Construction IAQ management plan - before occupancy
- EQc3.2 | Green cleaning - custodial effectiveness assessment
- EQc3.2 | Construction IAQ management plan - before occupancy
- EQc3.2 | Construction IAQ management plan: before occupancy
- EQc3.2 | Construction IAQ management plan - after construction
- EQc3.2 | Construction IAQ management plan - after construction
- EQc3.2 | Construction IAQ management plan: before occupancy
- EQc3.2 | Construction IAQ management plan - before occupancy
- EQc3.3 | Green cleaning - purchase of sustainable cleaning products and materials
- EQc3.3 | Green cleaning - custodial effectiveness assessment
- EQc3.4 | Green cleaning - sustainable cleaning equipment
- EQc3.4 | Green cleaning - purchase of sustainable cleaning products and materials
- EQc3.5 | Green cleaning - indoor chemical and pollutant source control
- EQc3.5 | Green cleaning - purchase of sustainable cleaning products and materials
- EQc3.6 | Green cleaning - indoor integrated pest management
- EQc3.6 | Green cleaning - purchase of sustainable cleaning products and materials
- EQc3.7 | Green cleaning - sustainable cleaning equipment
- EQc3.8 | Green cleaning - entryway systems
- EQc3.9 | Green cleaning - indoor integrated pest management
- EQc4 | Outdoor air ventilation
- EQc4 | Low-emitting materials
- EQc4 | Low-emitting materials
- EQc4 | Low-emitting materials
- EQc4 | Low-emitting materials
- EQc4 | Low-emitting materials
- EQc4 | Low-emitting materials, adhesives and sealants
- EQc4 | Enhanced compartmentalization
- EQc4 | Enhanced compartmentalization
- EQc4.1 | Low-emitting materials - adhesives and sealants
- EQc4.1 | Low-emitting materials - adhesives and sealants
- EQc4.1 | Documenting productivity impacts - absenteeism and health care cost impacts
- EQc4.1 | Low-emitting materials - adhesives and sealants
- EQc4.1 | Low-emitting materials - adhesives and sealants
- EQc4.1 | Low-emitting materials - adhesives and sealants
- EQc4.1 | Low-emitting materials - adhesives and sealants
- EQc4.1 | Low-emitting materials - adhesives and sealants
- EQc4.2 | Low-emitting materials - paints and coatings
- EQc4.2 | Low-emitting materials - paints and coatings
- EQc4.2 | Documenting productivity impacts - other productivity impacts
- EQc4.2 | Low-emitting materials - paints and coatings
- EQc4.2 | Low-emitting materials - paints and coatings
- EQc4.2 | Low-emitting materials - paints and coatings
- EQc4.2 | Low-emitting materials - paints and coatings
- EQc4.2 | Low-emitting materials - paints and coatings
- EQc4.3 | Low-emitting materials - carpet systems
- EQc4.3 | Low-emitting materials - carpet systems
- EQc4.3 | Low-emitting materials - carpet systems
- EQc4.3 | Low-emitting materials - carpet
- EQc4.3 | Low-emitting materials - carpet systems
- EQc4.3 | Low-emitting materials - flooring systems
- EQc4.3 | Low-emitting materials - flooring systems
- EQc4.4 | Low-emitting materials - composite wood and agrifiber products
- EQc4.4 | Low-emitting materials - composite wood and agrifiber products
- EQc4.4 | Low-emitting materials - composite wood and laminate adhesives
- EQc4.4 | Low-emitting materials - composite wood and agrifiber products
- EQc4.4 | Low-emitting materials - composite wood

- EQc4.4 | Low-emitting materials - composite wood
- EQc4.4 | Low-emitting materials - composite wood and agrifiber products
- EQc4.4 | Low-emitting materials - composite wood and agrifiber products
- EQc4.4 | Low-emitting materials - composite wood and agrifiber products
- EQc4.5 | Low-emitting materials - systems furniture and seating
- EQc4.5 | Low-emitting materials - systems furniture and seating
- EQc4.5 | Low-emitting materials - furniture
- EQc4.6 | Low-emitting materials - ceiling and wall systems
- EQc5 | Local exhaust
- EQc5 | Indoor chemical and pollutant source control
- EQc5 | Indoor chemical and pollutant source control
- EQc5 | Indoor chemical and pollutant source control
- EQc5 | Indoor chemical & pollutant source control
- EQc5 | Indoor chemical and pollutant source control
- EQc5 | Indoor chemical and pollutant source control
- EQc5 | Indoor chemical and pollutant source control
- EQc5 | Indoor chemical & pollutant source control
- EQc5 | Indoor chemical and pollutant source control
- EQc5 | Enhanced combustion venting
- EQc5 | Enhanced combustion venting
- EQc5 | Indoor chemical and pollutant source control
- EQc5 | Indoor chemical and pollutant source control
- EQc5 | Indoor chemical and pollutant source control
- EQc5 | Indoor chemical and pollutant source control
- EQc5 | Indoor chemical and pollutant source control
- EQc5 | Indoor chemical and pollutant source control
- EQc5 | Indoor chemical and pollutant source control
- EQc5.1 | Indoor chemical and pollutant source control - non-cleaning system reduce particulates in air distribution
- EQc5.2 | Indoor chemical and pollutant source control - non-cleaning - isolation of high-volume copying/print rooms/fax stations
- EQc6 | Controllability of systems - thermal comfort
- EQc6 | Distribution of space heating and cooling
- EQc6 | Controllability of systems - thermal comfort
- EQc6 | Controllability of systems - lighting and thermal comfort
- EQc6 | Controllability of systems, lighting and thermal comfort
- EQc6 | Enhanced garage pollutant protection
- EQc6 | Enhanced garage pollutant protection
- EQc6 | Controllability of systems - thermal comfort
- EQc6.1 | Controllability of systems - lighting
- EQc6.1 | Controllability of systems - lighting
- EQc6.1 | Controllability of systems - lighting
- EQc6.1 | Controllability of systems - lighting
- EQc6.1 | Controllability of systems - lighting
- EQc6.1 | Controllability of systems - lighting
- EQc6.1 | Controllability of systems - lighting
- EQc6.1 | Lighting system design & controllability
- EQc6.1 | Controllability of systems - perimeter spaces
- EQc6.1 | Controllability of systems - perimeter spaces
- EQc6.1 | Controllability of systems: lighting and thermal comfort
- EQc6.1 | Controllability of systems - lighting
- EQc6.2 | Controllability of systems - thermal comfort
- EQc6.2 | Controllability of systems - temperature and ventilation
- EQc6.2 | Controllability of systems - temperature and ventilation
- EQc6.2 | Thermal comfort controllability
- EQc6.2 | Controllability of systems - non-perimeter spaces
- EQc6.2 | Controllability of systems - non-perimeter spaces
- EQc6.2 | Controllability of systems - thermal comfort
- EQc6.2 | Controllability of systems - thermal comfort
- EQc6.2 | Controllability of systems - thermal comfort
- EQc6.2 | Controllability of systems - thermal comfort
- EQc6.2 | Controllability of systems - thermal comfort
- EQc7 | Air filtering
- EQc7 | Thermal comfort - design
- EQc7 | Thermal comfort - design
- EQc7 | Thermal comfort - design and verification
- EQc7 | Low-emitting products
- EQc7 | Low-emitting products
- EQc7 | Thermal comfort - design
- EQc7.1 | Thermal comfort - design
- EQc7.1 | Thermal comfort - design
- EQc7.1 | Thermal comfort - compliance
- EQc7.1 | Thermal comfort - compliance
- EQc7.1 | Thermal comfort: design
- EQc7.1 | Thermal comfort - compliance with ASHRAE 55-1992
- EQc7.1 | Thermal comfort - compliance with ASHRAE 55-1992
- EQc7.1 | Thermal comfort: design
- EQc7.1 | Thermal comfort, compliance
- EQc7.1 | Thermal comfort - design
- EQc7.1 | Thermal comfort - design
- EQc7.2 | Thermal comfort - verification
- EQc7.2 | Thermal comfort - employee verification
- EQc7.2 | Thermal comfort - verification
- EQc7.2 | Thermal comfort - monitoring
- EQc7.2 | Thermal comfort - permanent monitoring system
- EQc7.2 | Thermal comfort: verification
- EQc7.2 | Thermal comfort - permanent monitoring system
- EQc7.2 | Thermal comfort - permanent monitoring system
- EQc7.2 | Thermal comfort - verification
- EQc7.2 | Thermal comfort - verification
- EQc7.2 | Thermal comfort - employee verification
- EQc7.2 | Thermal comfort: employee verification
- EQc7.2 | Thermal comfort, employee verification
- EQc7.2 | Thermal comfort - verification
- EQc8 | Contaminant control
- EQc8 | No environmental tobacco smoke

- EQc8.1 | Daylight and views - daylight
- EQc8.1 | Daylight and views - daylight
- EQc8.1 | Daylight and views - daylight
- EQc8.1 | Daylight and views - daylight
- EQc8.1 | Daylight and views - daylight
- EQc8.1 | Daylight and views - daylight
- EQc8.1 | Daylight and views - daylight
- EQc8.1 | Daylight and views - daylight 75% of spaces
- EQc8.1 | Daylight and views - daylight 75% of spaces
- EQc8.1 | Daylight and views - daylight
- EQc8.1 | Daylight & views: daylight 75% of spaces
- EQc8.1 | Daylight and views - daylight 75% of spaces
- EQc8.1 | Daylight and views - daylight 75% of spaces
- EQc8.1 | Daylight and views - daylight 75% of spaces
- EQc8.1 | Daylight & views: daylight 75% of spaces
- EQc8.1 | Daylight and views, daylight 75% of spaces
- EQc8.1 | Daylight and views - daylight
- EQc8.2 | Daylight and views - views
- EQc8.2 | Daylight and views - views
- EQc8.2 | Daylight and views - views
- EQc8.2 | Daylight and views - views
- EQc8.2 | Daylight and views - views
- EQc8.2 | Daylight and views - views
- EQc8.2 | Daylight and views - views for 90% of spaces
- EQc8.2 | Daylight and views - daylight 90% of spaces
- EQc8.2 | Daylight & views: views for 90% of spaces
- EQc8.2 | Daylight and views - views for 90% of spaces
- EQc8.2 | Daylight and views - views for 90% of spaces
- EQc8.2 | Daylight and views - daylight
- EQc8.2 | Daylight & views: views for 90% of spaces
- EQc8.2 | Daylight and views, daylight 90% of spaces
- EQc8.2 | Daylight and views - views for 90% of spaces
- EQc8.2 | Daylight and views - views
- EQc8.2 | Daylight and views - views
- EQc8.2 | Daylight and views - views
- EQc8.3 | Daylight and views - views for 90% of seated spaces
- EQc8.3 | Daylight and views - views
- EQc8.3 | Daylight and views, views for 90% of spaces
- EQc8.4 | Daylight and views - views
- EQc9 | Radon protection
- EQc9 | Contemporary IAQ practice
- EQc9 | Enhanced acoustical performance
- EQc9 | Enhanced acoustical performance
- EQp1 | Minimum indoor air quality performance
- EQp1 | Minimum indoor air quality performance
- EQp1 | Minimum IAQ performance
- EQp1 | Outdoor air introduction and exhaust systems
- EQp1 | Minimum IAQ performance
- EQp1 | Outside air introduction and exhaust systems
- EQp1 | Minimum IAQ Performance
- EQp1 | Minimum IAQ Performance
- EQp1 | Minimum IAQ Performance
- EQp1 | Minimum IAQ performance
- EQp1 | Minimum IAQ performance
- EQp1 | Minimum IAQ Performance
- EQp1 | Ventilation
- EQp1 | Minimum indoor air quality performance
- EQp1 | Minimum indoor air quality performance
- EQp1 | Minimum indoor air quality performance
- EQp1 | Minimum indoor air quality performance
- EQp1 | Minimum indoor air quality performance
- EQp1 | Minimum indoor air quality performance
- EQp1 | Minimum indoor air quality performance
- EQp1 | Minimum indoor air quality performance
- EQp2 | Environmental tobacco smoke control
- EQp2 | Environmental Tobacco Smoke (ETS) control
- EQp2 | Environmental Tobacco Smoke (ETS) control
- EQp2 | Environmental Tobacco Smoke (ETS) control
- EQp2 | Environmental Tobacco Smoke (ETS) control
- EQp2 | Environmental Tobacco Smoke (ETS) control
- EQp2 | Environmental Tobacco Smoke (ETS) control
- EQp2 | Environmental Tobacco Smoke (ETS) control
- EQp2 | Environmental Tobacco Smoke (ETS) control
- EQp2 | Environmental Tobacco Smoke (ETS) control
- EQp2 | Environmental tobacco smoke (ETS) control
- EQp2 | Environmental Tobacco Smoke (ETS) control
- EQp2 | Environmental Tobacco Smoke (ETS) control
- EQp2 | Environmental Tobacco Smoke (ETS) control
- EQp2 | Environmental tobacco smoke (ETS) control
- EQp2 | Environmental tobacco smoke (ETS) control
- EQp2 | Combustion venting
- EQp2 | Environmental Tobacco Smoke (ETS) control
- EQp2 | Environmental Tobacco Smoke (ETS) control
- EQp2 | Environmental Tobacco Smoke (ETS) control
- EQp2 | Environmental Tobacco Smoke (ETS) control
- EQp2 | Environmental Tobacco Smoke (ETS) control
- EQp3 | Green cleaning policy
- EQp3 | Green cleaning policy
- EQp3 | Hazardous material removal or encapsulation (renovations only)
- EQp3 | Green cleaning policy
- EQp3 | Asbestos removal or encapsulation
- EQp3 | Minimum acoustical performance
- EQp3 | Minimum acoustical performance
- EQp3 | Garage pollutant protection

- EQp4 | Polychlorinated biphenyl (PCB) removal
- EQp4 | Radon-resistant construction
- EQp4.1 | Asbestos removal or encapsulation
- EQp4.1 | Hazardous material removal or encapsulation
- EQp4.2 | Polychlorinated biphenyl removal
- EQp5 | Air filtering
- EQp6 | Environmental tobacco smoke
- EQp7 | Compartmentalization
- MEQc10 | Garage pollutant protection
- MEQc11 | Environmental tobacco smoke (ETS) control in mid-rise buildings
- MEQc12 | Compartmentalization of units in mid-rise buildings
- MEQc2 | Combustion venting in mid-rise buildings
- MEQc4 | Outdoor air ventilation in mid-rise buildings
- MEQc5 | Local exhaust in mid-rise buildings
- MEQc8 | Contaminant control in mid-rise buildings

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Minimum indoor air quality performance

Required

1 result in**All** .

- Glossary

Requirements

Meet the requirements for both ventilation and monitoring.

Ventilation

Mechanically ventilated spaces

For mechanically ventilated spaces (and for mixed-mode systems when the mechanical ventilation is activated), chose one of the following cases.

Case 1. Systems able to meet required outdoor airflow rates

Option 1. ASHRAE Standard 62.1–2010

Determine the minimum outdoor air intake flow for mechanical ventilation systems using the ventilation rate procedure from ASHRAE 62.1–2010 or a local equivalent, whichever is more stringent and meet the minimum requirements of ASHRAE Standard 62.1–2010, Sections 4–7, Ventilation for Acceptable Indoor Air Quality (with errata), or a local equivalent, whichever is more stringent.

Option 2. CEN Standards EN 15251–2007 and EN 13779–2007

Projects outside the U.S. may instead meet the minimum outdoor air requirements of Annex B of Comité Européen de Normalisation (CEN) Standard EN 15251–2007, Indoor environmental input parameters for design and assessment of energy performance of buildings addressing indoor air quality, thermal environment, lighting and acoustics; and meet the requirements of CEN Standard EN 13779–2007, Ventilation for nonresidential buildings, Performance requirements for ventilation and room conditioning systems, excluding Section 7.3, Thermal environment; 7.6, Acoustic environment; A.16; and A.17.

Case 2. Systems unable to meet required outdoor airflow rates

If meeting the outdoor airflow rates in Case 1 is not feasible because of the physical constraints of the existing ventilation system, complete an engineering assessment of the system's maximum outdoor air delivery rate. Supply the maximum possible to reach the minimum setpoint in Case 1 and not less than 10 cubic feet per minute (5 liters per second) of outdoor air per person.

Naturally ventilated spaces

For naturally ventilated spaces (and for mixed-mode systems when the mechanical ventilation is inactivated), determine the minimum outdoor air opening and space configuration requirements using the natural ventilation procedure from ASHRAE Standard 62.1–2010 or a local equivalent, whichever is more stringent. Confirm that natural ventilation is an effective strategy for the project by following the flow diagram in the Chartered Institution of Building Services Engineers (CIBSE) Applications Manual AM10, March 2005, Natural Ventilation in Nondomestic Buildings, Figure 2.8 and meet the requirements of ASHRAE Standard 62.1–2010, Section 4, or a local equivalent, whichever is more stringent. [Europe ACP: Arbeitsstaettenrichtlinie ASR 5]

All spaces

The indoor air quality procedure defined in ASHRAE Standard 62.1–2010 may not be used to comply with this prerequisite.

Monitoring

Mechanically ventilated spaces

For mechanically ventilated spaces (and for mixed-mode systems when the mechanical ventilation is activated), monitor outdoor air intake flow as follows:

- For variable air volume systems with an outdoor air intake in the project scope of work, provide a direct outdoor airflow measurement device capable of measuring the minimum outdoor air intake flow with an accuracy of +/–10% of the design minimum outdoor airflow rate, as defined by the ventilation requirements above. An alarm must indicate when the outdoor airflow value varies by 15% or more from the outdoor airflow setpoint.
- For constant-volume systems included in the project scope of work, balance outdoor airflow to the design minimum outdoor airflow rate defined by ASHRAE Standard 62.1–2010 (with errata), or higher. Install a current transducer on the supply fan, an airflow switch, or similar monitoring device.

  Naturally ventilated spaces

  For naturally ventilated spaces (and for mixed-mode systems when the mechanical ventilation is inactivated), comply with at least one of the following.

  - Provide a direct exhaust airflow measurement device capable of measuring the exhaust airflow with an accuracy of +/–10% of the design minimum exhaust airflow rate. An alarm must indicate when airflow values vary by 15% or more from the exhaust airflow setpoint.
  - Provide automatic indication devices on all natural ventilation openings intended to meet the minimum opening requirements. An alarm must indicate when any one of the openings is closed during occupied hours.
  - Monitor carbon dioxide (CO_2) concentrations within each thermal zone. CO_2 monitors must be between 3 and 6 feet (900 and 1 800 millimeters) above the floor and within the thermal zone. CO_2 monitors must have an audible or visual indicator or alert the building automation system if the sensed CO_2 concentration exceeds the setpoint by more than 10%. Calculate appropriate CO_2 setpoints by using the methods in ASHRAE 62.1–2010, Appendix C.

Alternative Compliance Paths (ACPs)

Europe ACP: Arbeitsstaettenrichtlinie ASR 5

Projects in Europe may use Arbeitsstaettenrichtlinie ASR 5 as a local equivalent to ASHRAE Standard 62.1-2010, natural ventilation procedure.

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