Instructions

WELL Certification is determined by onsite Performance Verification and documentation, including Letters of Assurance from the appropriate professionals overseeing the implementation of a specific WELL feature and component parts during design, construction or operations. The template should be completed, signed and submitted as part of the documentation package.

- 1. Place a checkmark at every part completed and leave blank those that are not being pursued or being completed by another team member.
- 2. Initial every feature completed and leave blank those that are not being pursued or being completed by another team member.
- 3. Sign and date at the bottom of this letter.

If an individual other than the MEP is responsible for any of the requirements contained in this Letter of Assurance, he/she is permitted to sign off on the respective requirements but must complete a separate Letter of Assurance for those specific requirements. This individual should submit a different copy of this form and check the boxes as it pertains to his/her own responsibility. On his/her own Letter of Assurance form(s), this individual should sign and complete the final page and include a description of his/her role on the project next to his/her signature.

The scope of this letter of assurance is as follows (please initial):

Intent stage (for Precertification only)

Implementation stage (for Precertification or WELL Certification)

The information contained in this document is accurate as of current designs and anticipated project operations.

This document is prepared in relation to final construction documents and/or implemented operations and policies.

Check	Air	Initials
	A01 Fundamental Air Quality	

This project is designed to meet the parts selected below:

Part 4: Meet Radon Threshold

All Spaces:

If project has a regularly occupied space at or below grade, one of the following requirements is met:

- a. The radon level is less than 0.15 Bq/L [4 pCi/L], as tested by a professional demonstrated not to have a conflict of interest. One test is conducted per 2,300 m² [25,000 ft²] of regularly occupied space at or below grade.
- b. All regularly occupied spaces at or below grade meet the 'Mechanically ventilated spaces' option of Part 1: Ensure Adequate Ventilation in Feature A03: Ventilation Effectiveness.

A03 Ventilation Effectiveness

This project is designed to meet the parts selected below:

Part 1: Ensure Adequate Ventilation

All Spaces except Dwelling Units:

Mechanically ventilated spaces

Projects utilizing mechanical ventilation comply with ventilation supply and exhaust rates set in one of the following:

a. ASHRAE 62.1-2010 or any more recent versions (Ventilation Rate Procedure or IAQ Procedure).

b. CEN Standards EN 15251:2007 and EN 16798-3:2017 or any more recent versions. The requirements of CEN Standard EN 15251:2007 must be met as well as the performance requirements of CEN Standard EN 16798-3:2017 related to ventilation and room conditioning systems (excluding sections 7.3, 7.6, A.16 and A.17). Note that projects must meet Category I or II as described in the standards.

c. AS 1668.2-2012 or any more recent version. Note that projects that wish to comply with AS 1668.2 must assume a minimum density of 16 m^2 [170 ft²] per person.

d. CIBSE Guide A: Environmental Design, version 2007 or any more recent version.

OR------

Naturally ventilated spaces

Projects using natural ventilation only (no mechanical ventilation) meet the following requirements:

a. Outdoor $PM_{2.5}$, PM_{10} , carbon monoxide and ozone levels within 4 km [2.5 mi] of the building are compliant with the levels specified in Feature A01: Air Quality Standards for at least 95% of all hours in the previous year.

- b. One of the following design criteria:
 - 1. Natural Ventilation Procedure in ASHRAE 62.1-2010 or any more recent version (as appropriate for number of floors above grade).
 - CIBSE AM10: Natural Ventilation in Non-Domestic Buildings (2005 or any more recent version) section 2.4
 Natural ventilation strategies and chapter 4 Design Calculations.

OR------

Naturally ventilated spaces

Projects using natural ventilation only (no mechanical ventilation) meet the following requirements:

a. Outdoor air meets the following thresholds as an average for the previous year:

- 1. $PM_{2.5}$ less than 25 μ g/m³.
- 2. PM_{10} less than 50 μ g/m³.
- b. One of the following design criteria:
 - 1. Natural Ventilation Procedure in ASHRAE 62.1-2010 or any more recent version (as appropriate for number of floors above grade).
 - CIBSE AM10: Natural Ventilation in Non-Domestic Buildings (2005 or any more recent version) section 2.4
 Natural ventilation strategies and chapter 4 Design Calculations.

Naturally ventilated spaces

Projects using natural ventilation only (no mechanical ventilation) meet the following requirements:

- a. Outdoor air meets the following thresholds as an average for the previous year:
 - 1. $PM_{2.5}$ less than 35 μ g/m³.
 - 2. PM_{10} less than 70 μ g/m³.
- b. One of the following design criteria:
 - 1. Natural Ventilation Procedure in ASHRAE 62.1-2010 or any more recent version (as appropriate for number of floors above grade).
 - CIBSE AM10: Natural Ventilation in Non-Domestic Buildings (2005 or any more recent version) section 2.4
 Natural ventilation strategies and chapter 4 Design Calculations.

OR-----

Mixed-mode ventilated spaces

Projects using mixed-mode ventilation meet one of the following requirements:

a. Project complies with the requirements set for naturally ventilated spaces when mechanical system is not in use and the requirements for mechanical ventilation when the mechanical system is in use. Mechanical ventilation must be operated when outdoor air quality conditions are above the limits in Feature A01: Fundamental Air Quality.

b. Operate with mechanical ventilation CIBSE AM13: Mixed Mode Ventilation, version 2000 or any more recent version.

Dwelling Units:

Mechanically ventilated spaces

Projects utilizing mechanical ventilation comply with ventilation supply and exhaust rates set in one of the following:

a. ASHRAE 62.2-2016 (continuous or intermittent ventilation system requirements) or any more recent version.

b. CEN Standards EN 15251:2007 or any more recent version. Note that projects must meet Category I or II as described in the standards.

c. AS 1668.2-2012 or any more recent version.

d. CIBSE Guide A: Environmental Design, version 2007 or any more recent version.

OR------

Naturally ventilated spaces

Projects using natural ventilation only (no mechanical ventilation) meet the following requirements:

a. Outdoor $PM_{2.5}$, PM_{10} , carbon monoxide, ozone and nitrogen dioxide levels within 4 km [2.5 mi] of the building are compliant with the thresholds specified in Feature A01: Air Quality Standards for at least 95% of all hours in the previous year.

- b. One of the following design criteria:
 - 1. Natural Ventilation Procedure in ASHRAE 62.1-2010 or any more recent version.
 - 2. CEN Standards EN 15251:2007 or any more recent version. Note that projects must meet Category I or II as described in the standards.
 - 3. CIBSE Guide A: Environmental Design, version 2007 or any more recent version.

OR------

Naturally ventilated spaces

Projects using natural ventilation only (no mechanical ventilation) meet the following requirements:

- a. Outdoor air meets the following thresholds as an average for the previous year:
 - 1. $PM_{2.5}$ less than 25 μ g/m³.
 - 2. PM_{10} less than 50 μ g/m³.
- b. One of the following design criteria:
 - 1. Natural Ventilation Procedure in ASHRAE 62.1-2010 or any more recent version.
 - 2. CEN Standards EN 15251:2007 or any more recent version. Note that projects must meet Category I or II as described in the standards.
 - 3. CIBSE Guide A: Environmental Design, version 2007 or any more recent version.

OR-----

Naturally ventilated spaces

Projects using natural ventilation only (no mechanical ventilation) meet the following requirements:

- a. Outdoor air meets the following thresholds as an average for the previous year:
 - 1. $PM_{2.5}$ less than 35 μ g/m³.
 - 2. PM_{10} less than 70 μ g/m³.
- b. One of the following design criteria:
 - 1. Natural Ventilation Procedure in ASHRAE 62.1-2010 or any more recent version.
 - 2. CEN Standards EN 15251:2007 or any more recent version. Note that projects must meet Category I or II as described in the standards.
 - 3. CIBSE Guide A: Environmental Design, version 2007 or any more recent version.

Part 2: Conduct System Balancing

All Spaces:

Mechanically ventilated spaces

To verify compliance with the ventilation rate requirements specified in Part 1: Ensure Adequate Ventilation, the following requirements are met (as applicable):

a. Newly installed mechanical ventilation system or ventilation system that undergoes significant alterations is tested and balanced in accordance with ASHRAE 111.

b. Existing mechanical ventilation system is tested and balanced every five years to verify that the minimum ventilation rates (as determined in Part 1: Ensure Adequate Ventilation) are within \pm 10% of the minimum design values.

c. Projects using the elevated air speed method for thermal comfort verify that air speed complies with design specifications.

A06 Enhanced Ventilation

This project is designed to meet the parts selected below:

Part 1: Increase Outdoor Air Supply

All Spaces:

Mechanically ventilated spaces

The following requirement is met:

a.

Projects exceed outdoor air supply rates described in ASHRAE 62.1-2010 by the percentages shown in the table below:

Thresholds	Points
30%	1
60%	2

OR------

Naturally ventilated spaces

The following requirements are met:

a. Projects meet Part 1: Provide Operable Windows in Feature A07: Operable Windows.

b. Projects demonstrate that natural ventilation is sufficient to keep CO₂ levels less than the thresholds specified in the table below (measured at 1.2-1.8 m [4-6 ft] above the floor) at maximum intended occupancies in all regularly occupied spaces:

Thresholds	Points
900 ppm	1
750 ppm	2
600 ppm	3

Part 2: Implement Demand-Controlled Ventilation

All Spaces:

All regularly occupied spaces meet the following requirements:

a. A demand-controlled ventilation system regulates the outdoor ventilation rate to keep CO_2 levels at maximum intended occupancy less than the thresholds specified in the table below:

Thresholds	Points
900 ppm	1
750 ppm	2
600 ppm	3

b. Carbon dioxide is measured at the air exhaust diffusers or in occupied space at 1.1-1.7 m [3.6-5.6 ft] above the floor (away from doors, windows, air supply and zones where occupants may exhale directly into the sensor). At least one sensor is used for each major occupancy zone (or per air handling unit if a single zone is served by multiple air handling units). If occupancy density/pattern/usage is different in two adjacent areas, each area must be considered a separate zone.

Part 3: Implement Displacement Ventilation

All Spaces:

Projects implement a displacement ventilation system for heating and/or cooling, with one of the following as a basis for design:

a. ASHRAE Guidelines RP-949.

b. REHVA Guidebook No. 01 (Displacement Ventilation in non-industrial premises).

c. ASHRAE's UFAD Guide: Design, Construction and Operations of Underfloor Air Distribution Systems. Air supply temperature is slightly cooler or warmer than the desired space temperature. Air distribution system is installed at a raised floor height whereby the underfloor area can be cleaned on an annual basis.

Part 4: Implement Advanced Air Distribution

All Spaces except Commercial Kitchen Spaces & Dwelling Units:

At all workstations, the following requirements are met:

a. Conditioned air is supplied via an individual diffuser that is positioned no further than 0.8 m [2.6 ft] from an occupant's head.

b. Occupants are given control over the direction of the supplied airflow and supply air speed (within 0.0-1.2 m/s [0.0-3.9 ft/s] in the head region).

c. Supplied air uses one of the strategies specified in the table below:

Requirement		
Background mechanical system is used for ventilation	2	
Dedicated outdoor air system is used for ventilation	3	

This project is designed to meet the parts selected below:

Part 2: Manage Window Use

All Spaces:

Outdoor air measurement

The following requirements are met:

a. Outdoor levels of ozone, $PM_{2.5}$ or PM_{10} , and temperature are monitored at intervals of at least once per hour based on a data-gathering station located within 4 km [2.5 mi] of the building.

b. Data collected are made available to building occupants.

Window operation

Indicator lights at windows and/or online notifications signal to regular building occupants when outdoor air allows for open windows based on when the following thresholds are met:

- a. Ozone less than 51 ppb.
- b. $PM_{2.5}$ less than 15 μ g/m³.
- c. PM_{10} less than 50 μ g/m³.
- d. Dry-bulb temperature within 8 °C [15 °F] of indoor air temperature setpoint.

A08 Air Quality Monitoring and Awareness

This project is designed to meet the parts selected below:

Part 1: Implement Indoor Air Monitors

All Spaces:

The following requirements are met:

a. Monitors measure at least three of the following within a regularly occupied or common space in the building:

- 1. $PM_{2.5}$ or PM_{10} (accuracy 2 μ g/m³ + 15% of reading at values between 0 and 150 μ g/m³).
- 2. Carbon dioxide (accuracy 50 ppm + 3% of reading at values between 400 and 2000 ppm).
- 3. Carbon monoxide (accuracy 1 ppm at values between 0 and 10 ppm).
- 4. Ozone (accuracy 10 ppb at values between 0 and 100 ppb).
- 5. Nitrogen dioxide (accuracy 20 ppb at values between 0 and 100 ppb).
- 6. Total VOCs (accuracy 20 μ g/m³ + 20% of reading at values between 150 and 2000 ppm).
- 7. Formaldehyde (accuracy 20 ppb at values between 0 and 100 ppb).

b. Monitor density is minimum one per floor or one every 325 m² [3,500 ft²], whichever is more stringent. Monitors are sited at locations compliant with the following requirements:

- 1. 1.1-1.7 m [3.6-5.6 ft] above the finished floor at locations where occupants would typically be seated or standing.
- 2. In dwelling units, at least one sampling point at 10 cm [4 in] above the finished floor.
- 3. Sampling points must be at least 1 m [3.3 ft] away from doors, windows and air supply/exhaust outlets.

c. Measurements are taken at intervals of no longer than 10 minutes for particulate matter and carbon dioxide and no longer than one hour for other pollutants.

d. Data are analyzed for regularly occupied hours (e.g., median, mean, 75th, 95th percentile) and submitted annually through WELL Online.

e. Monitors are recalibrated or replaced annually, with documentation attesting to their calibration or replacement submitted annually through WELL Online.

A09 Pollution Infiltration Management

This project is designed to meet the parts selected below:

Part 1: Design Healthy Envelope and Entryways

All Spaces:

Building envelope and entry

At least two of the following requirements are met:

- a. The below is performed after substantial completion of construction and prior to occupancy:
 - 1. Envelope commissioning in accordance with ASHRAE Guideline 0-2013 and the National Institute of Building Sciences (NIBS) Guideline 3-2012 (for new construction or structural renovation).
 - 2. The commissioning process is performed by an independent professional who is not a member or subcontractor of the building envelope design and construction team.

b. All regularly used entrances to the building that have pedestrian traffic to the exterior use an entryway system composed of grilles, grates, slots or rollout mats that are at least the width of the entrance and 3 m [10 ft] long in the primary direction of travel (sum of indoor and outdoor length). These are cleaned as per below:

- 1. Walk-off mats, indoor and outdoor, are wet-cleaned at least once every two days and fully dry before use.
- 2. Underside of entry mats are cleaned at least once a day.
- 3. Entry mats are vacuumed using a vacuum with a beater bar in both directions at least once a day.
- c. One of the below is in place to slow the movement of air from outdoors to indoors:
 - 1. Building entry vestibule with two typically closed doorways.
 - 2. Revolving entrance doors.

Outdoor sport areas

The following requirement is met:

a. All facilities adjacent to an outdoor sports field have a staging area that separates the playing field from other internal areas to capture moisture and debris.

A10 Combustion Minimization

This project is designed to meet the parts selected below:

Part 1: Manage Combustion

All Spaces except Commercial Kitchen Spaces:

Appliance and heater combustion ban

The following requirement is met:

a. Combustion-based fireplaces, stoves, space heaters, ranges and ovens are not used in regularly occupied spaces.

Low-emission combustion sources

The following equipment used by the project for heating, cooling, water heating, process heating or power generation (including back-up if used for more than 200 hours per year) meet California's South Coast Air Quality Management District rules, or approved equivalent, for pollution:

- a. Internal combustion engines.
 - b. Furnaces.
 - c. Boilers, steam generators and process heaters.
 - d. Water heaters.

Engine exhaust reduction

The following requirement is met:

a. Vehicle engine idling for more than 30 seconds is prohibited in all pick-up, drop-off and parking areas. "No idling" signage is present at these locations indicating this rule.

A11 Source Separation

This project is designed to meet the parts selected below:

Part 1: Manage Pollution and Exhaust

All Spaces:

All bathrooms, kitchens, rooms for cleaning and chemical storage, rooms with high-volume printers and copiers, and high-humidity areas meet one of the following requirements:

- a. Are separated from all adjacent regularly occupied spaces with self-closing doors and/or vestibules.
- b. Utilize exhaust fans so that return air is expelled outdoors rather than recirculated.

Commercial Kitchen Spaces.	Comme	rcial	Kitchen	Spaces:
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The following requirements are met:

a. Canopy hoods have side or partial panels when allowable by code.

b. Type II hood overhangs and setbacks comply with ASHRAE 154-2011 (Table 3 - Minimum Overhang Requirements for Type II Hoods) on all open sides, measured in the horizontal plane from the inside edge of the hood to the edge of the top horizontal surface of the appliance.

c. The vertical distance between the front lower lip of the hood and cooking surface is less than or equal to 1.2 m [4 ft].

d. Makeup air velocity near (or directed at) the hood is less than 0.25 m/s [75 fpm].

e. Replacement air introduced directly into the exhaust hood cavity does not exceed 10% of the hood exhaust airflow rate.

f. At least 50% of the air that replaces the exhaust air is conditioned transfer air rather than makeup air.

g. Appliances are grouped under exhaust hoods according to effluent productions and associated ventilation requirements, as specified in ASHRAE 154-2011, per hood type (defined by the classifications used in ASHRAE 154-2011 for light, medium, heavy and extra-heavy appliance duty levels).

h. Appliances have a rear seal between the appliance and the wall when allowable by code.

i. Appliances located at the end of a cook line requiring exhaust airflow rates greater than 460 L/s/m [300 CFM/ft] have a full side panel or an end wall.

A12 Air Filtration

This project is designed to meet the parts selected below:

Part 1: Implement Particle Filtration

All Spaces:

Mechanically and Mixed-mode ventilated spaces

The following requirement is met:

a. Media filters are used in the ventilation system to filter outdoor air supplied to the space in accordance with thresholds specified in the table below:

Annual Average Outdoor PM _{2.5} Threshold	Minimum Air Filtration Level
16 μg/m³ or less	MERV 8 or G4
17–18 μg/m³	MERV 10 or M5
19–23 μg/m³	MERV 12 or M6
24–39 μg/m³	MERV 14 or F8
40–59 μg/m³	MERV 16 or E10
60 μg/m³ or greater	MERV 16 preceded by MERV 8, or E10 preceded by G4

b. Filter is equipped with on-board pressure sensors or filter change indicator that signal when filter requires replacement. Evidence that the filter has been replaced according to manufacturer's recommendation is submitted annually through WELL Online.

A13 Active VOC Control

This project is designed to meet the parts selected below:

Part 1: Implement Carbon Filtration

All Spaces:

The following requirements are met:

- a. Projects utilize one of the below to remove VOCs from indoor air:
 - 1. Activated carbon filters or a combination of particulate/carbon filters in the main air ducts to filter recirculated air.
 - 2. A standalone air-cleaning device that utilizes a carbon filter to treat the air (one device per area coverage as specified by the manufacturer).
- b. Evidence that the filter or device has been replaced or maintained according to manufacturer's recommendation is submitted annually through WELL Online.

A14 Microbe and Mold Control

This project is designed to meet the parts selected below:

Part 1: Implement Ultraviolet Air Treatment

All Spaces:

The following requirements are met:

- a. Project utilizes one of the below:
 - 1. Projects with a forced-air cooling system use ultraviolet lamps to irradiate the surfaces of the cooling coils and drain pans of the mechanical system supplies.
 - 2. Projects without a forced-air cooling system use standalone ultraviolet germicidal irradiation air sanitizers in all spaces with more than 10 regular occupants.

b.

Evidence that the device has been replaced or maintained according to manufacturer's recommendation is submitted annually through WELL Online.

Check	Water	Initials
	W05 Water Quality Consistency	
	This project is designed to meet the parts selected below:	

Part 2: Filter Drinking Water

All Spaces:

Treatment Devices

All water from drinking water dispensers is treated within the building with the following:

a. A filter designed to remove suspended solids with pore size 1.5 µm or less.

b. A UV disinfection system rated by NSF/ANSI Standard 55 (Class A or B) or a device rated by NSF/ANSI Standard Standard 53 or 58 for cyst removal or reduction.

c. A device rated by NSF/ANSI Standard 53 or 58 for copper and lead reduction.

Device Maintenance

The following requirement is met:

a. Projects submit annually through WELL Online evidence that water treatment devices have been properly maintained as per the manufacturer's recommendation.

W07 Moisture Management

This project is designed to meet the parts selected below:

Part 3: Manage Interior Liquid Water

All Spaces:

To prevent leaks and water damage, one of the following is installed:

a. Readily accessible, single-throw manual shut-off (governed or activated per use) or automatic shut-off at point-of-connection for all hard-piped fixtures (such as dishwashers, icemakers and clothes washers).

b. Building-wide plumbing leak detection system.

Check	Thermal Comfort	Initials
	T01 Thermal Performance	
	This project is designed to meet the parts selected below:	

Part 1: Support Thermal Environment

All Spaces except Commercial Kitchen Spaces & Dwelling Units:

Mechanically ventilated spaces

The following requirements are met:

a. During 98% of the standard occupied hours of the year, 95% of regularly occupied spaces achieve thermal conditions representing Predicted Mean Vote (PMV) levels within +/- 0.5; PPD \leq 10% (as per ASHRAE 55-2013, ISO 7730: 2005 or EN 15251:2007). Project describes outdoor weather conditions under which PMV and PPD levels would not be achieved, including historical weather data demonstrating that they are not expected to occur more than 2% of standard occupied hours per year.

b. During all standard occupied hours of the year, all regularly occupied spaces achieve thermal conditions representing Predicted Mean Vote (PMV) levels within +/-0.7; PPD $\leq 15\%$.

c. Projects submit assumptions of clothing insulation and metabolic rate (and for projects using the elevated air speed method, air speed at a height between 0.6 and 1.7 m [2 to 5.6 ft]) used in design calculations.

OR-----

Naturally ventilated spaces

One of the following requirements is met:

- a. 80% acceptability limit (as per ASHRAE 55-2013) in regularly occupied spaces.
- b. Class I or II acceptability limit (as per EN 15251:2007) in regularly occupied spaces.

Commercial Kitchen Spaces:

The following requirement is met:

a. The operative temperature in the kitchen does not exceed 27 °C [80 °F] at any time.

Dwelling Units:

All regularly occupied spaces meet one of the following requirements:

a. Satisfy the conditions listed for "All spaces."

- b. Meet the below:
 - 1. If the local climate requires cooling, each dwelling unit has the flexibility to accommodate the installation of cooling device(s) that allow tenants to maintain desirable comfort conditions in bedrooms and living spaces.
 - 2. Project owner identifies at least three types of cooling mechanisms (e.g., split systems, ceiling fans or other systems that improve thermal comfort) and provides installation assistance for the cooling mechanism selected by a tenant.
 - 3. Project owner educates or assists tenants with maintaining their cooling mechanism(s).
 - 4. Projects provide a heating system to meet minimum temperature requirements from ASHRAE 55:2013, ISO 7730:2005 or EN 15251:2007.

T02 Enhanced Thermal Performance

This project is designed to meet the parts selected below:

Part 1: Enhance Thermal Environment

All Spaces except Commercial Kitchen Spaces:

Mechanically ventilated spaces

The following requirements are met:

a.

During all standard occupied hours of the year, all regularly occupied spaces achieve thermal conditions representing Predicted Mean Vote (PMV) levels within +/- 0.5; PPD \leq 10% (as per ASHRAE 55-2013, ISO 7730:2005 or EN 15251:2007).

OR-----

Naturally ventilated spaces

During all standard occupied hours of the year, all regularly occupied spaces achieve one of the following thermal conditions:

a. 90% acceptability limit (as per ASHRAE 55-2013).

b. Class I acceptability limit (as per EN 15251:2007).

T03 Thermal Zoning

This project is designed to meet the parts selected below:

Part 1: Ensure Thermostat Control

All Spaces except Commercial Kitchen Spaces:

The following requirements are met for all regularly occupied spaces equipped with a heating and/or cooling system:

All regularly occupied spaces contain thermal zones, as shown in the table below (note: individual rooms less than 30 m^2 [320 ft²] or 5 occupants are still considered separate zones):

Zone Density

Minimum 1 thermal zone per 60 m² [650 ft²] or per 10 occupants (whichever results in fewer thermal zones)

Minimum 1 thermal zone per 30 m² [320 ft²] or per 5 occupants (whichever results in fewer thermal zones)

b. Temperature sensors are positioned at least 1 m [3.3 ft] away from exterior walls, windows, doors, direct sunlight, air supply diffusers, mechanical fans, heaters or any other significant source of heat or cold.

- c. All regular building occupants have control over temperature through either:
 - 1. Thermostats Present within the thermal zone.
 - 2. Digital interface available on a computer or phone.

Part 2: Promote Free Address

Office Spaces:

Projects meet the following requirements:

a. The building provides a thermal variation of at least 3 $^{\circ}$ C [5 $^{\circ}$ F] across open workspaces over 200 m² [2,150 ft²], between rooms with more than 10 people and/or between floors.

b. All office spaces with employees performing tasks that require similar workstations use free address to allow employees to select a work space with a desired temperature.

T05 Radiant Thermal Comfort

This project is designed to meet the parts selected below:

Part 1: Implement Radiant Systems

All Spaces except Commercial Kitchen Spaces:

At least 50% of the project floor area is serviced by one of the following systems:

- a. Hydronic radiant heating and/or cooling systems.
- b. Electric radiant systems.

Part 2: Implement Dedicated Outdoor Air Systems

All Spaces:

Points

Mechanically ventilated spaces

In spaces where an independent system is used for heating and/or cooling, dedicated outdoor air systems meet one of the following requirements:

a. The system complies with ASHRAE Design Guide For Dedicated Outdoor Air Systems (2017).

b. A detailed design review of the proposed system is conducted by an independent, qualified and registered professional mechanical engineer demonstrated not to have a conflict of interest. The review addresses thermal comfort (dry-bulb temperature, humidity and air velocity, at a minimum) and ventilation rates, as well as overall serviceability and system reliability. Reports must demonstrate satisfactory compliance with ventilation standards of Part 1: Ensure Adequate Ventilation in Feature A03: Ventilation Effectiveness .

T06 Thermal Comfort Monitoring

This project is designed to meet the parts selected below:

Part 1: Monitor Thermal Environment

All Spaces:

Thermal comfort monitors

Projects monitor dry-bulb temperature, relative humidity, air speed and mean radiant temperature in regularly occupied areas within the building, satisfying the following requirements:

a. Measurements are taken in occupied zones at least 1 m [3.3 ft] away from exterior walls, doors, direct sunlight, air supply/exhausts, mechanical fans, heaters or any other significant source of heat or cold.

b. The sensor placement density is minimum one per floor or one every 325 m^2 [3,500 ft²], whichever is more stringent.

c. Measurements are taken at intervals and heights specified in the table below:

Parameter	Sampling Interval	Sampling Height Above the Floor
Dry-bulb temperature	10 minutes or less	1.1–1.7 m [3.6–5.6 ft]
Relative humidity	10 minutes or less	1.1–1.7 m [3.6–5.6 ft]
Air speed (only if elevated air speed is used)	3 months or less	1.1–1.7 m [3.6–5.6 ft]
Mean radiant temperature	3 months or less	1.1–1.7 m [3.6–5.6 ft]

d. Data are analyzed for regularly occupied hours (e.g., median, mean, 75th and 95th percentile) and annually submitted through WELL Online.

e. Dry-bulb temperature and relative humidity sensors are recalibrated or replaced annually and certificates attesting their calibration or replacement are annually submitted through WELL Online. Air speed and mean radiant temperature sensors used for quarterly measurements are calibrated as per manufacturer's specification.

Environmental measures display

Real-time display of dry-bulb temperature and relative humidity is made available to occupants through one of the following:



b. A website or phone application. At least one visible sign is positioned per 930 m² [10,000 ft²] of regularly occupied space indicating the website or phone application where the data may be accessed.

T07 Humidity Control

This project is designed to meet the parts selected below:

Part 1: Manage Relative Humidity

All Spaces:

All parts of the project except high-humidity areas meet one of the following requirements:

a. The mechanical system has the capability of maintaining relative humidity between 30% and 60% at all times by adding or removing moisture from the air.

b. The modeled relative humidity levels in the space are between 30% and 60% for at least 98% of all business hours of the year.

Check	Materials	Initials
	X01 Fundamental Material Precautions	
	This project is designed to meet the parts selected below:	

Part 2: Limit Mercury

All Spaces:

All newly installed products meet the following:

a. Illuminated exit signs, thermostats, switches and electrical relays are mercury-free.

b. Low-mercury or mercury-free lamp technology meets the following specifications:

Fluorescent Lamp	Maximum Mercury Content
Compact, integral ballast	3.5 mg
Compact, non-integral ballast	3.5 mg
T-5, circular	9 mg
T-5, linear	2.5 mg
T-8, eight-foot	10 mg
T-8, four-foot	3.5 mg
T-8, two- and three-foot	3.5 mg
T-8, U-bent	6 mg
High-Pressure Sodium Lamp	Maximum Mercury Content
400 W or less	10 mg
Over 400 W	32 mg

By signing below, I represent that, to the best of my knowledge, all of the responses provided on this form are accurate and made in good faith.

Printed Name: _____

Signature: _____

If the individual using this form is not in the role of MEP, provide a description of the individual's project role, including justification of their ability to sign off on the above requirements, here:

Project Role: _____

Explanation: ______