

## CompliancePathType2019ASHRAE901

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| Enumerator     | Description     | Notes |
|----------------|-----------------|-------|
| CODE_COMPLIANT | Code Compliance |       |
| BEYOND_CODE    | Beyond Code     |       |

## LightingSpaceType2019ASHRAE901T951TG38

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| Enumerator                 | Description                 | Notes |
|----------------------------|-----------------------------|-------|
| AUTOMOTIVE_FACILITY        | Automotive facility         |       |
| CONVENTION_CENTER          | Convention center           |       |
| COURTHOUSE                 | Courthouse                  |       |
| DINING_BAR_LOUNGE_LEISURE  | Dining: Bar lounge/leisure  |       |
| DINING_CAFETERIA_FAST_FOOD | Dining: Cafeteria/fast food |       |
| DINING_FAMILY              | Dining: Family              |       |
| DORMITORY                  | Dormitory                   |       |
| EXERCISE_CENTER            | Exercise center             |       |
| FIRE_STATION               | Fire station                |       |
| GYMNASIUM                  | Gymnasium                   |       |
| HEALTH_CARE_CLINIC         | Health-care clinic          |       |
| HOSPITAL                   | Hospital                    |       |
| HOTEL_MOTEL                | Hotel/motel                 |       |
| LIBRARY                    | Library                     |       |
| MANUFACTURING_FACILITY     | Manufacturing facility      |       |
| MOTION_PICTURE_THEATER     | Motion picture theater      |       |
| MULTIFAMILY                | Multifamily                 |       |
| MUSEUM                     | Museum                      |       |
| OFFICE                     | Office                      |       |
| PARKING_GARAGE             | Parking garage              |       |
| PENITENTIARY               | Penitentiary                |       |
| PERFORMING_ARTS_THEATER    | Performing arts theater     |       |
| POLICE_STATION             | Police station              |       |
| POST_OFFICE                | Post office                 |       |
| RELIGIOUS_FACILITY         | Religious facility          |       |

| Enumerator        | Description       | Notes  |
|-------------------|-------------------|--|
| RETAIL            | Retail            |  |
| SCHOOL_UNIVERSITY | School/university |  |
| SPORTS_ARENA      | Sports arena      |  |
| TOWN_HALL         | Town hall         |  |
| TRANSPORTATION    | Transportation    |  |
| WAREHOUSE         | Warehouse         |  |
| WORKSHOP          | Workshop          |  |
| NONE              | None              | Indicates that building area method is not used and instead the space-by-space method is used. |

## LightingSpaceType2019ASHRAE901TG37

| Enumerator  | Description  | Notes   |
|---|--|---|
| ATRIUM_LOW_MEDIUM                                 | Atrium - Low/Medium  |   |
| ATRIUM_HIGH                                       | Atrium - High  |   |
| AUDIENCE_SEATING_AREA_AUDITORIUM                  | Audience Seating Area - Auditorium   |   |
| AUDIENCE_SEATING_AREA_CONVENTION_CENTER           | Audience Seating Area - Convention center  |   |
| AUDIENCE_SEATING_AREA_EXERCISE_CENTER             | Audience Seating Area - Exercise center  |   |
| AUDIENCE_SEATING_AREA_GYMNASIUM                   | Audience Seating Area - Gymnasium  |   |
| AUDIENCE_SEATING_AREA_MOTION_PICTURE_THEATER      | Audience Seating Area - Motion picture theater   |   |
| AUDIENCE_SEATING_AREA_PENITENTIARY                | Audience Seating Area - Penitentiary   |   |
| AUDIENCE_SEATING_AREA_PERFORMING_ARTS_THEATER     | Audience Seating Area - Performing arts theater  |   |
| AUDIENCE_SEATING_AREA_RELIGIOUS_FACILITY          | Audience Seating Area - Religious facility   |   |
| AUDIENCE_SEATING_AREA_SPORTS_ARENA                | Audience Seating Area - Sports arena   |   |
| AUDIENCE_SEATING_AREA_TRANSPORTATION_FACILITY     | Audience Seating Area - Transportation facility  |   |
| AUDIENCE_SEATING_AREA_ALL_OTHER                   | Audience Seating Area - All other  |   |
| BANKING_ACTIVITY_AREA                             | Banking Activity Area  |   |
| CLASSROOM_LECTURE_HALL_TRAINING_ROOM_PENITENTIARY | Classroom/Lecture Hall/Training Room - Penitentiary                                    |   |
| CLASSROOM_LECTURE_HALL_TRAINING_ROOM_SCHOOL       | Classroom/Lecture Hall/Training Room - School  | Preschool through 12th grade, laboratory, and shop classrooms |
| CLASSROOM_LECTURE_HALL_TRAINING_ROOM_ALL_OTHER    | Classroom/Lecture Hall/Training Room - All other                                       |   |
| CONFERENCE_MEETING_MULTIPURPOSE_ROOM              | Conference/Meeting/Multipurpose Room   |   |
| CONFINEMENT_CELLS                                 | Confinement Cells  |   |
| COPY_PRINT_ROOM                                   | Copy/Print Room  |   |
| CORRIDOR_FACILITY_FOR_THE_VISUALLY_IMPAIRED       | Corridor - Facility for the visually impaired (and not used primarily by the staff)    |   |
| CORRIDOR_HOSPITAL                                 | Corridor - Hospital  |   |
| CORRIDOR_MANUFACTURING_FACILITY                   | Corridor - Manufacturing facility  |   |
| CORRIDOR_ALL_OTHERS                               | Corridor - All others  |   |
| COURT_ROOM  | Court room   |   |
| COMPUTER_ROOM                                     | Computer Room  |   |
| DINING_AREA_PENITENTIARY                          | Dining Area - Penitentiary   |   |
| DINING_AREA_FACILITY_FOR_THE_VISUALLY_IMPAIRED    | Dining Area - Facility for the visually impaired (and not used primarily by the staff) |   |
| DINING_AREA_BAR_LOUNGE_OR_LEISURE_DINING          | Dining Area - Bar/lounge or leisure dining   |   |
| DINING_AREA_CAFETERIA_OR_FAST_FOOD_DINING         | Dining Area - Cafeteria or fast food dining  |   |

| Enumerator  | Description   | Notes |
|---|---|-------|
| DINING_AREA_FAMILY_DINING                                   | Dining Area - Family dining   |       |
| DINING_AREA_ALL_OTHERS                                      | Dining Area - All others  |       |
| ELECTRICAL_MECHANICAL_ROOM                                  | Electrical/Mechanical Room  |       |
| EMERGENCY_VEHICLE_GARAGE                                    | Emergency Vehicle Garage  |       |
| FOOD_PREPARATION_AREA                                       | Food Preparation Area   |       |
| GUEST_ROOM  | Guest Room  |       |
| JUDGES_CHAMBERS   | Judges Chambers   |       |
| DWELLING_UNIT   | Dwelling Unit   |       |
| LABORATORY_IN_OR_AS_A_CLASSROOM                             | Laboratory - In or as a classroom   |       |
| LABORATORY_ALL_OTHERS                                       | Laboratory - All others   |       |
| LAUNDRY_WASHING_AREA  | Laundry/Washing Area  |       |
| LOADING_DOCK_INTERIOR                                       | Loading Dock, Interior  |       |
| LOBBY_FACILITY_FOR_THE_VISUALLY_IMPAIRED                    | Lobby - Facility for the visually impaired (and not used primarily by the staff)                |       |
| LOBBY_ELEVATOR  | Lobby - Elevator  |       |
| LOBBY_HOTEL   | Lobby - Hotel   |       |
| LOBBY_MOTION_PICTURE_THEATER                                | Lobby - Motion picture theater  |       |
| LOBBY_PERFORMING_ARTS_THEATER                               | Lobby - Performing arts theater   |       |
| LOBBY_ALL_OTHERS  | Lobby - All others  |       |
| LOCKER_ROOM   | Locker Room   |       |
| LOUNGE_BREAKROOM_HEALTH_CARE_FACILITY                       | Lounge/Breakroom - Health care facility   |       |
| LOUNGE_BREAKROOM_ALL_OTHERS                                 | Lounge/Breakroom - All others   |       |
| OFFICE_ENCLOSED   | Office - Enclosed   |       |
| OFFICE_OPEN_PLAN  | Office - Open plan  |       |
| PARKING_AREA_INTERIOR                                       | Parking Area, Interior  |       |
| PHARMACY_AREA   | Pharmacy Area   |       |
| RESTROOM_FACILITY_FOR_THE_VISUALLY_IMPAIRED                 | Restroom - Facility for the visually impaired (and not used primarily by the staff)             |       |
| RESTROOM_ALL_OTHERS   | Restroom - All others   |       |
| SALES_AREA  | Sales Area  |       |
| SEATING_AREA_GENERAL  | Seating Area, General   |       |
| STAIRWELL   | Stairwell   |       |
| STORAGE_ROOM_HOSPITAL                                       | Storage Room - Hospital   |       |
| STORAGE_ROOM_SMALL  | Storage Room - Small  |       |
| STORAGE_ROOM_LARGE  | Storage Room - Large  |       |
| VEHICULAR_MAINTENANCE_AREA                                  | Vehicular Maintenance Area  |       |
| WORKSHOP  | Workshop  |       |
| ASSISTED_LIVING_FACILITY_CHAPEL                             | Assisted Living Facility - Chapel (used primarily by residents)                                 |       |
| ASSISTED_LIVING_FACILITY_RECREATION_ROOM_COMMON_LIVING_ROOM | Assisted Living Facility - Recreation room/common living room (and not used primarily by staff) |       |

| Enumerator   | Description  | Notes |
|--|--|-------|
| CONVENTION_CENTER_EXHIBIT_SPACE                    | Convention Center â€™ Exhibit Space                  |       |
| DORMITORY_LIVING_QUARTERS                          | Dormitory â€™ Living Quarters                        |       |
| FIRE_STATION_SLEEPING_QUARTERS                     | Fire Station â€™ Sleeping Quarters                   |       |
| GYMNASIUM_FITNESS_CENTER_EXERCISE_AREA             | Gymnasium/Fitness Center - Exercise area             |       |
| GYMNASIUM_FITNESS_CENTER_PLAYING_AREA              | Gymnasium/Fitness Center - Playing area              |       |
| HEALTHCARE_FACILITY_EMERGENCY_ROOM                 | Healthcare Facility - Emergency Room                 |       |
| HEALTHCARE_FACILITY_EXAM_TREATMENT_ROOM            | Healthcare Facility - Exam/treatment room            |       |
| HEALTHCARE_FACILITY_MEDICAL_SUPPLY_ROOM            | Healthcare Facility - Medical supply room            |       |
| HEALTHCARE_FACILITY_NURSERY                        | Healthcare Facility - Nursery                        |       |
| HEALTHCARE_FACILITY_NURSES_STATION                 | Healthcare Facility - Nurseâ€™s station              |       |
| HEALTHCARE_FACILITY_OPERATING_ROOM                 | Healthcare Facility - Operating room                 |       |
| HEALTHCARE_FACILITY_PATIENT_ROOM                   | Healthcare Facility - Patient room                   |       |
| HEALTHCARE_FACILITY_PHYSICAL_THERAPY_ROOM          | Healthcare Facility - Physical therapy room          |       |
| HEALTHCARE_FACILITY_RECOVERY_ROOM                  | Healthcare Facility - Recovery room                  |       |
| LIBRARY_READING_AREA                               | Library - Reading area                               |       |
| LIBRARY_STACKS                                     | Library - Stacks                                     |       |
| MANUFACTURING_FACILITY_DETAILED_MANUFACTURING_AREA | Manufacturing Facility - Detailed manufacturing area |       |
| MANUFACTURING_FACILITY_EQUIPMENTROOM               | Manufacturing Facility - Equipment room              |       |
| MANUFACTURING_FACILITY_EXTRA_HIGH_BAY_AREA         | Manufacturing Facility - Extra high bay area         |       |
| MANUFACTURING_FACILITY_HIGH_BAY_AREA               | Manufacturing Facility - High bay area               |       |
| MANUFACTURING_FACILITY_LOW_BAY_AREA                | Manufacturing Facility - Low bay area                |       |
| MUSEUM_GENERAL_EXHIBITION_AREA                     | Museum - General exhibition area                     |       |
| MUSEUM_RESTORATION_ROOM                            | Museum - Restoration room                            |       |
| POST_OFFICE_SORTING_AREA                           | Post Office â€™ Sorting Area                         |       |
| RELIGIOUS_FACILITY_FELLOWSHIP_HALL                 | Religious Facility - Fellowship hall                 |       |
| RELIGIOUS_FACILITY_WORSHIP_PULPIT_CHOIR_AREA       | Religious Facility - Worship/pulpit/choir area       |       |
| RETAIL_FACILITIES_DRESSING_FITTING_ROOM            | Retail Facilities - Dressing/fitting room            |       |
| RETAIL_FACILITIES_MALL_CONCOURSE                   | Retail Facilities - Mall concourse                   |       |
| SPORTS_arena_playing_area_class_I_facility         | Sports Arena â€™ Playing Area - Class I facility     |       |
| SPORTS_arena_playing_area_class_II_facility        | Sports Arena â€™ Playing Area - Class II facility    |       |
| SPORTS_arena_playing_area_class_III_facility       | Sports Arena â€™ Playing Area - Class III facility   |       |

| Enumerator  | Description  | Notes |
|---|--|-------|
| SPORTS_ARENA_PLAYING_AREA_CLASS_IV_FACILITY             | Sports Arena â€™ Playing Area - Class IV facility              |       |
| TRANSPORTATION_FACILITY_BAGGAGE_CAROUSEL_AREA           | Transportation Facility - Baggage/carousel area                |       |
| TRANSPORTATION_FACILITY_AIRPORT_CONCOURSE               | Transportation Facility - Airport concourse                    |       |
| TRANSPORTATION_FACILITY_TICKET_COUNTER                  | Transportation Facility - Ticket counter                       |       |
| WAREHOUSE_STORAGE_AREA_MEDIUM_TO_BULKY_PALLETIZED_ITEMS | Warehouse â€™ Storage Area - Medium to bulky, palletized items |       |
| WAREHOUSE_STORAGE_AREA_SMALLER_HAND_CARRIED_ITEMS       | Warehouse â€™ Storage Area - Smaller, hand-carried items       |       |

## LightingPurposeType2019ASHRAE901

| Enumerator  | Description | Notes |
|-------------|-------------|-------|
| GENERAL     | General     |       |
| TASK        | Task        |       |
| DECORATIVE  | Decorative  |       |
| UNREGULATED | Unregulated |       |

## ExteriorLightingAreas2019ASHRAE901TableG36

| Enumerator                        | Description                       | Notes                 |
|-----------------------------------|-----------------------------------|-----------------------|
| UNCOVERED_PARKING_LOTS_AND_DRIVES | Uncovered parking lots and drives |                       |
| WALKWAY_NARROW                    | Walkway - narrow                  | Less than 10 ft wide  |
| WALKWAY_WIDE                      | Walkway - wide                    | 10 ft wide or greater |
| PLAZA_AREAS                       | Plaza Areas                       |                       |
| SPECIAL_FEATURE_AREAS             | Special Feature Areas             |                       |
| STAIRWAYS                         | Stairways                         |                       |
| MAIN_ENTRANCE_DOOR                | Main entrance door                |                       |
| OTHER_ENTRANCE_OR_EXIT_DOORS      | Other entrance or exit doors      |                       |
| EXTERIOR_CANOPIES                 | Exterior canopies                 |                       |
| OUTDOOR_SALES_OPEN_AREAS          | Outdoor sales - open areas        |                       |
| STREET_FRONTAGE                   | Street frontage                   |                       |
| NON_TRADABLE_FACADE               | Non-tradable facade               |                       |

## ExteriorLightingZones2019ASHRAE901



| Enumerator                      | Description                       | Notes  |
|---------------------------------|-----------------------------------|--|
| ZONE_0_UNDEVELOPED              | Zone 0 - undeveloped              | Undeveloped areas within national parks, state parks, forest land, rural areas, and other undeveloped areas as defined by the authority having jurisdiction        |
| ZONE_1_DEVELOPED_RURAL_AND_PARK | Zone 1 - developed rural and park | Developed areas of national parks, state parks, forest land, and rural areas   |
| ZONE_2_RESIDENTIAL_NEIGHBORHOOD | Zone 2 - residential neighborhood | Areas predominantly consisting of residential zoning, neighborhood business districts, light industrial with limited nighttime use and residential mixed use areas |
| ZONE_3_ALL_OTHER_AREAS          | Zone 3 - all other areas          |  |
| ZONE_4_HIGH_ACTIVITY_COMMERCIAL | Zone 4 - high-activity commercial | High-activity commercial districts in major metropolitan areas as designated by the local jurisdiction   |

## VentilationSpaceType2019ASHRAE901

| Enumerator  | Description  | Notes |
|---|--|-------|
| ANIMAL_FACILITIES_ANIMAL_EXAM_ROOM_VETERINARY_OFFICE      | Animal Facilities -<br>Animal exam room<br>(veterinary office)         |       |
| ANIMAL_FACILITIES_ANIMAL_IMAGING_MRI_CT_PET               | Animal Facilities -<br>Animal imaging<br>(MRI/CT/PET)                  |       |
| ANIMAL_FACILITIES_ANIMAL_OPERATING_ROOMS                  | Animal Facilities -<br>Animal operating<br>rooms                       |       |
| ANIMAL_FACILITIES_ANIMAL_POSTOPERATIVE_RECOVERY_ROOM      | Animal Facilities -<br>Animal<br>postoperative<br>recovery room        |       |
| ANIMAL_FACILITIES_ANIMAL_PREPARATION_ROOMS                | Animal Facilities -<br>Animal preparation<br>rooms                     |       |
| ANIMAL_FACILITIES_ANIMAL_PROCEDURE_ROOM                   | Animal Facilities -<br>Animal procedure<br>room                        |       |
| ANIMAL_FACILITIES_ANIMAL_SURGERY_SCRUB                    | Animal Facilities -<br>Animal surgery<br>scrub                         |       |
| ANIMAL_FACILITIES_LARGE_ANIMAL_HOLDING_ROOM               | Animal Facilities -<br>Large-animal<br>holding room                    |       |
| ANIMAL_FACILITIES_NECROPSY                                | Animal Facilities -<br>Necropsy  |       |
| ANIMAL_FACILITIES_SMALL_ANIMAL_CAGE_ROOM_STATIC_CAGES     | Animal Facilities -<br>Small-animal-cage<br>room (static cages)        |       |
| ANIMAL_FACILITIES_SMALL_ANIMAL_CAGE_ROOM_VENTILATED_CAGES | Animal Facilities -<br>Small-animal-cage<br>room (ventilated<br>cages) |       |
| CORRECTIONAL_FACILITIES_BOOKING_WAITING                   | Correctional<br>Facilities -<br>Booking/waiting                        |       |
| CORRECTIONAL_FACILITIES_CELL                              | Correctional<br>Facilities - Cell                                      |       |
| CORRECTIONAL_FACILITIES_DAYROOM                           | Correctional<br>Facilities - Dayroom                                   |       |
| CORRECTIONAL_FACILITIES_GUARD_STATIONS                    | Correctional<br>Facilities - Guard<br>stations                         |       |
| EDUCATIONAL_FACILITIES_ART_CLASSROOM                      | Educational Facilities<br>- Art classroom                              |       |
| EDUCATIONAL_FACILITIES_CLASSROOMS_AGES_5_TO_8             | Educational Facilities<br>- Classrooms (ages 5<br>to 8)                |       |
| EDUCATIONAL_FACILITIES_CLASSROOMS_AGE_9_PLUS              | Educational Facilities<br>- Classrooms (age 9<br>plus)                 |       |
| EDUCATIONAL_FACILITIES_COMPUTER_LAB                       | Educational Facilities<br>- Computer lab                               |       |
| EDUCATIONAL_FACILITIES_DAYCARE_SICKROOM                   | Educational Facilities<br>- Daycare sickroom                           |       |
| EDUCATIONAL_FACILITIES_DAYCARE_THROUGH_AGE_4              | Educational Facilities<br>- Daycare (through<br>age 4)                 |       |
| EDUCATIONAL_FACILITIES_LECTURE_CLASSROOM                  | Educational Facilities<br>- Lecture classroom                          |       |
| EDUCATIONAL_FACILITIES_LECTURE_HALL_FIXED_SEATS           | Educational Facilities<br>- Lecture hall (fixed<br>seats)              |       |
| EDUCATIONAL_FACILITIES_LIBRARIES                          | Educational Facilities<br>- Libraries                                  |       |
| EDUCATIONAL_FACILITIES_MEDIA_CENTER                       | Educational Facilities<br>- Media center                               |       |
| EDUCATIONAL_FACILITIES_MULTIUSE_ASSEMBLY                  | Educational Facilities<br>- Multiuse assembly                          |       |
| EDUCATIONAL_FACILITIES_MUSIC_THEATER_DANCE                | Educational Facilities<br>-<br>Music/theater/dance                     |       |
| EDUCATIONAL_FACILITIES_SCIENCE_LABORATORIES               | Educational Facilities<br>- Science<br>laboratories                    |       |
| EDUCATIONAL_FACILITIES_UNIVERSITY_COLLEGE_LABORATORIES    | Educational Facilities<br>- University/college<br>laboratories         |       |
| EDUCATIONAL_FACILITIES_WOOD_METAL_SHOP                    | Educational Facilities<br>- Wood/metal shop                            |       |
| FOOD_AND_BEVERAGE_SERVICE_BARS_COCKTAIL_LOUNGES           | Food and Beverage<br>Service - Bars,<br>cocktail lounges               |       |

| Enumerator   | Description  | Notes |
|--|--|-------|
| FOOD_AND_BEVERAGE_SERVICE_CAFETERIA_FAST_FOOD_DINING   | Food and Beverage Service - Cafeteria/fast-food dining   |       |
| FOOD_AND_BEVERAGE_SERVICE_KITCHEN_COOKING  | Food and Beverage Service - Kitchen (cooking)  |       |
| FOOD_AND_BEVERAGE_SERVICE_RESTAURANT_DINING_ROOMS  | Food and Beverage Service - Restaurant dining rooms  |       |
| FOOD_AND_BEVERAGE_SERVICE_GENERAL_BREAK_ROOMS  | Food and Beverage Service, General - Break rooms   |       |
| FOOD_AND_BEVERAGE_SERVICE_GENERAL_COFFEE_STATIONS  | Food and Beverage Service, General - Coffee stations   |       |
| FOOD_AND_BEVERAGE_SERVICE_GENERAL_CONFERENCE_MEETING   | Food and Beverage Service, General - Conference/meeting  |       |
| FOOD_AND_BEVERAGE_SERVICE_GENERAL_CORRIDORS  | Food and Beverage Service, General - Corridors   |       |
| FOOD_AND_BEVERAGE_SERVICE_GENERAL_OCCUPIABLE_STORAGE_ROOMS_FOR_LIQUIDS_OR_GELS   | Food and Beverage Service, General - Occupiable storage rooms for liquids or gels  |       |
| HOTELS_MOTELS_RESORTS_DORMITORIES_BARRACKS_SLEEPING_AREAS  | Hotels, Motels, Resorts, Dormitories - Barracks sleeping areas   |       |
| HOTELS_MOTELS_RESORTS_DORMITORIES_BEDROOM_LIVING_ROOM  | Hotels, Motels, Resorts, Dormitories - Bedroom/living room   |       |
| HOTELS_MOTELS_RESORTS_DORMITORIES_LAUNDRY_ROOMS_CENTRAL  | Hotels, Motels, Resorts, Dormitories - Laundry rooms, central  |       |
| HOTELS_MOTELS_RESORTS_DORMITORIES_LAUNDRY_ROOMS_WITHIN_DWELLING_UNITS  | Hotels, Motels, Resorts, Dormitories - Laundry rooms within dwelling units   |       |
| HOTELS_MOTELS_RESORTS_DORMITORIES_LOBBIES_PREFUNCTION  | Hotels, Motels, Resorts, Dormitories - Lobbies/prefunction   |       |
| HOTELS_MOTELS_RESORTS_DORMITORIES_MULTIPURPOSE_ASSEMBLY  | Hotels, Motels, Resorts, Dormitories - Multipurpose assembly   |       |
| MISCELLANEOUS_SPACES_BANKS_OR_BANK_LOBBIES   | Miscellaneous Spaces - Banks or bank lobbies   |       |
| MISCELLANEOUS_SPACES_BANK_VAULTS_SAFE_DEPOSIT  | Miscellaneous Spaces - Bank vaults/safe deposit  |       |
| MISCELLANEOUS_SPACES_COMPUTER_NOT_PRINTING   | Miscellaneous Spaces - Computer (not printing)   |       |
| MISCELLANEOUS_SPACES_FREEZER_AND_REFRIGERATED_SPACES   | Miscellaneous Spaces - Freezer and refrigerated spaces (<50Å°F [10Å°C])  |       |
| MISCELLANEOUS_SPACES_MANUFACTURING_WHERE_HAZARDOUS_MATERIALS_ARE_NOT_USED  | Miscellaneous Spaces - Manufacturing where hazardous materials are not used  |       |
| MISCELLANEOUS_SPACES_MANUFACTURING_WHERE_HAZARDOUS_MATERIALS_ARE_USED_EXCLUDES_HEAVY_INDUSTRIAL_AND_CHEMICAL_PROCESSES | Miscellaneous Spaces - Manufacturing where hazardous materials are used (excludes heavy industrial and chemical processes) |       |
| MISCELLANEOUS_SPACES_PHARMACY_PREP_AREA  | Miscellaneous Spaces - Pharmacy (prep. area)   |       |
| MISCELLANEOUS_SPACES_PHOTO_STUDIOS   | Miscellaneous Spaces - Photo studios   |       |
| MISCELLANEOUS_SPACES_SHIPPING_RECEIVING  | Miscellaneous Spaces - Shipping/receiving  |       |
| MISCELLANEOUS_SPACES_SORTING_PACKING_LIGHT_ASSEMBLY  | Miscellaneous Spaces - Sorting, packing, light assembly  |       |

| Enumerator   | Description  | Notes |
|--|--|-------|
| MISCELLANEOUS_SPACES_TELEPHONE_CLOSETS                             | Miscellaneous Spaces - Telephone closets                             |       |
| MISCELLANEOUS_SPACES_TRANSPORTATION_WAITING                        | Miscellaneous Spaces - Transportation waiting                        |       |
| MISCELLANEOUS_SPACES_WAREHOUSES                                    | Miscellaneous Spaces - Warehouses                                    |       |
| OFFICE_BUILDINGS_BREAKROOMS  | Office Buildings - Breakrooms  |       |
| OFFICE_BUILDINGS_MAIN_ENTRY_LOBBIES                                | Office Buildings - Main entry lobbies                                |       |
| OFFICE_BUILDINGS_OCCUPIABLE_STORAGE_ROOMS_FOR_DRY_MATERIALS        | Office Buildings - Occupiable storage rooms for dry materials        |       |
| OFFICE_BUILDINGS_OFFICE_SPACE                                      | Office Buildings - Office space                                      |       |
| OFFICE_BUILDINGS_RECEPTION_AREAS                                   | Office Buildings - Reception areas                                   |       |
| OFFICE_BUILDINGS_TELEPHONE_DATA_ENTRY                              | Office Buildings - Telephone/data entry                              |       |
| OUTPATIENT_HEALTH_CARE_FACILITIES_BIRTHING_ROOM                    | Outpatient Health Care Facilities - Birthing room                    |       |
| OUTPATIENT_HEALTH_CARE_FACILITIES_CLASS_1_IMAGING_ROOMS            | Outpatient Health Care Facilities - Class 1 imaging rooms            |       |
| OUTPATIENT_HEALTH_CARE_FACILITIES_DENTAL_OPERATOR                  | Outpatient Health Care Facilities - Dental operator                  |       |
| OUTPATIENT_HEALTH_CARE_FACILITIES_GENERAL_EXAMINATION_ROOM         | Outpatient Health Care Facilities - General examination room         |       |
| OUTPATIENT_HEALTH_CARE_FACILITIES_OTHER_DENTAL_TREATMENT_AREAS     | Outpatient Health Care Facilities - Other dental treatment areas     |       |
| OUTPATIENT_HEALTH_CARE_FACILITIES_PHYSICAL_THERAPY_EXERCISE_AREA   | Outpatient Health Care Facilities - Physical therapy exercise area   |       |
| OUTPATIENT_HEALTH_CARE_FACILITIES_PHYSICAL_THERAPY_INDIVIDUAL_ROOM | Outpatient Health Care Facilities - Physical therapy individual room |       |
| OUTPATIENT_HEALTH_CARE_FACILITIES_PHYSICAL_THERAPEUTIC_POOL_AREA   | Outpatient Health Care Facilities - Physical therapeutic pool area   |       |
| OUTPATIENT_HEALTH_CARE_FACILITIES_PROSTHETICS_AND_ORTHOTICS_ROOM   | Outpatient Health Care Facilities - Prosthetics and orthotics room   |       |
| OUTPATIENT_HEALTH_CARE_FACILITIES_PSYCHIATRIC_CONSULTATION_ROOM    | Outpatient Health Care Facilities - Psychiatric consultation room    |       |
| OUTPATIENT_HEALTH_CARE_FACILITIES_PSYCHIATRIC_EXAMINATION_ROOM     | Outpatient Health Care Facilities - Psychiatric examination room     |       |
| OUTPATIENT_HEALTH_CARE_FACILITIES_PSYCHIATRIC_GROUP_ROOM           | Outpatient Health Care Facilities - Psychiatric group room           |       |
| OUTPATIENT_HEALTH_CARE_FACILITIES_PSYCHIATRIC_SECLUSION_ROOM       | Outpatient Health Care Facilities - Psychiatric seclusion room       |       |
| OUTPATIENT_HEALTH_CARE_FACILITIES_SPEECH_THERAPY_ROOM              | Outpatient Health Care Facilities - Speech therapy room              |       |
| OUTPATIENT_HEALTH_CARE_FACILITIES_URGENT_CARE_EXAMINATION_ROOM     | Outpatient Health Care Facilities - Urgent care examination room     |       |
| OUTPATIENT_HEALTH_CARE_FACILITIES_URGENT_CARE_OBSERVATION_ROOM     | Outpatient Health Care Facilities - Urgent care observation room     |       |
| OUTPATIENT_HEALTH_CARE_FACILITIES_URGENT_CARE_TREATMENT_ROOM       | Outpatient Health Care Facilities - Urgent care treatment room       |       |

| Enumerator  | Description   | Notes |
|---|---|-------|
| OUTPATIENT_HEALTH_CARE_FACILITIES_URGENT_CARE_TRIAGE_ROOM | Outpatient Health Care Facilities - Urgent care triage room |       |
| PUBLIC_ASSEMBLY_SPACES_AUDITORIUM_SEATING_AREA            | Public Assembly Spaces - Auditorium seating area            |       |
| PUBLIC_ASSEMBLY_SPACES_COURTROOMS                         | Public Assembly Spaces - Courtrooms                         |       |
| PUBLIC_ASSEMBLY_SPACES_LEGISLATIVE_CHAMBERS               | Public Assembly Spaces - Legislative chambers               |       |
| PUBLIC_ASSEMBLY_SPACES_LIBRARIES                          | Public Assembly Spaces - Libraries                          |       |
| PUBLIC_ASSEMBLY_SPACES_LOBBIES                            | Public Assembly Spaces - Lobbies                            |       |
| PUBLIC_ASSEMBLY_SPACES_MUSEUMS_CHILDRENS                  | Public Assembly Spaces - Museums (children's)               |       |
| PUBLIC_ASSEMBLY_SPACES_MUSEUMS_GALLERIES                  | Public Assembly Spaces - Museums/galleries                  |       |
| PUBLIC_ASSEMBLY_SPACES_PLACES_OF_RELIGIOUS_WORSHIP        | Public Assembly Spaces - Places of religious worship        |       |
| RETAIL_SALES_EXCEPT_OTHER_SPECIFIC_RETAIL                 | Retail - Sales (except other specific retail)               |       |
| RETAIL_BARBERSHOP   | Retail - Barbershop   |       |
| RETAIL_BEAUTY_AND_NAIL_SALONS                             | Retail - Beauty and nail salons                             |       |
| RETAIL_COIN_OPERATED_LAUNDRIES                            | Retail - Coin-operated laundries                            |       |
| RETAIL_MALL_COMMON_AREAS                                  | Retail - Mall common areas                                  |       |
| RETAIL_PET_SHOPS_ANIMAL_AREAS                             | Retail - Pet shops (animal areas)                           |       |
| RETAIL_SUPERMARKET  | Retail - Supermarket  |       |
| SPORTS_AND_ENTERTAINMENT_BOWLING_ALLEY_SEATING            | Sports and Entertainment - Bowling alley (seating)          |       |
| SPORTS_AND_ENTERTAINMENT_DISCO_DANCE_FLOORS               | Sports and Entertainment - Disco/dance floors               |       |
| SPORTS_AND_ENTERTAINMENT_GAMBLING_CASINOS                 | Sports and Entertainment - Gambling casinos                 |       |
| SPORTS_AND_ENTERTAINMENT_GAME_ARCADES                     | Sports and Entertainment - Game arcades                     |       |
| SPORTS_AND_ENTERTAINMENT_GYM_SPORTS_ARENA_PLAY_AREA       | Sports and Entertainment - Gym, sports arena (play area)    |       |
| SPORTS_AND_ENTERTAINMENT_HEALTH_CLUB_AEROBICS_ROOM        | Sports and Entertainment - Health club/aerobics room        |       |
| SPORTS_AND_ENTERTAINMENT_HEALTH_CLUB_WEIGHT_ROOMS         | Sports and Entertainment - Health club/weight rooms         |       |
| SPORTS_AND_ENTERTAINMENT_SPECTATOR_AREAS                  | Sports and Entertainment - Spectator areas                  |       |
| SPORTS_AND_ENTERTAINMENT_STAGES_STUDIOS                   | Sports and Entertainment - Stages, studios                  |       |
| SPORTS_AND_ENTERTAINMENT_SWIMMING_POOL_AND_DECK           | Sports and Entertainment - Swimming (pool and deck)         |       |
| TRANSIENT_RESIDENTIAL_COMMON_CORRIDORS                    | Transient Residential - Common corridors                    |       |
| TRANSIENT_RESIDENTIAL_DWELLING_UNIT                       | Transient Residential - Dwelling unit                       |       |

# ServiceWaterHeatingSpaceType2019ASHRAE901

| Enumerator                      | Description                            | Notes |
|---------------------------------|--|-------|
| AUTOMOTIVE_FACILITY             | Automotive facility                    |       |
| CONVENIENCE_STORE               | Convenience store                      |       |
| CONVENTION_CENTER               | Convention center                      |       |
| COURTHOUSE                      | Courthouse                             |       |
| DINING_BAR_LOUNGE_LEISURE       | Dining: Bar lounge/leisure             |       |
| DINING_CAFETERIA_FAST_FOOD      | Dining: Cafeteria/fast food            |       |
| DINING_FAMILY                   | Dining: Family                         |       |
| DORMITORY                       | Dormitory                              |       |
| EXERCISE_CENTER                 | Exercise center                        |       |
| FIRE_STATION                    | Fire station                           |       |
| GYMNASIUM                       | Gymnasium                              |       |
| HEALTH_CARE_CLINIC              | Health-care clinic                     |       |
| HOSPITAL_AND_OUTPATIENT_SURGERY | Hospital and outpatient surgery center |       |
| HOTEL                           | Hotel                                  |       |
| LIBRARY                         | Library                                |       |
| MANUFACTURING_FACILITY          | Manufacturing facility                 |       |
| MOTEL                           | Motel                                  |       |
| MOTION_PICTURE_THEATER          | Motion picture theater                 |       |
| MULTIFAMILY                     | Multifamily                            |       |
| MUSEUM                          | Museum                                 |       |
| OFFICE                          | Office                                 |       |
| PARKING_GARAGE                  | Parking garage                         |       |
| PENITENTIARY                    | Penitentiary                           |       |
| PERFORMING_ARTS_THEATER         | Performing arts theater                |       |
| POLICE_STATION                  | Police station                         |       |
| POST_OFFICE                     | Post office                            |       |
| RELIGIOUS_FACILITY              | Religious facility                     |       |
| RETAIL                          | Retail                                 |       |
| SCHOOL_UNIVERSITY               | School/university                      |       |

| Enumerator     | Description    | Notes |
|----------------|----------------|-------|
| SPORTS_ARENA   | Sports arena   |       |
| TOWN_HALL      | Town hall      |       |
| TRANSPORTATION | Transportation |       |
| WAREHOUSE      | Warehouse      |       |
| WORKSHOP       | Workshop       |       |
| ALL_OTHERS     | All others     |       |

## ClimateZone2019ASHRAE901

| Enumerator | Description           | Notes |
|------------|-----------------------|-------|
| CZ0A       | Extremely Hot - Humid |       |
| CZ0B       | Extremely Hot - Dry   |       |
| CZ1A       | Very Hot - Humid      |       |
| CZ1B       | Very Hot - Dry        |       |
| CZ2A       | Hot - Humid           |       |
| CZ2B       | Hot - Dry             |       |
| CZ3A       | Warm - Humid          |       |
| CZ3B       | Warm - Dry            |       |
| CZ3C       | Warm - Marine         |       |
| CZ4A       | Mixed - Humid         |       |
| CZ4B       | Mixed - Dry           |       |
| CZ4C       | Mixed - Marine        |       |
| CZ5A       | Cool - Humid          |       |
| CZ5B       | Cool - Dry            |       |
| CZ5C       | Cool - Marine         |       |
| CZ6A       | Cold - Humid          |       |
| CZ6B       | Cold - Dry            |       |
| CZ7        | Very cold             |       |
| CZ8        | Subarctic/arctic      |       |

# VerticalFenestrationBuildingAreaType2019ASHRAE901

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| Enumerator                      | Description                       | Notes |
|---------------------------------|-----------------------------------|-------|
| GROCERY_STORE                   | Grocery store                     |       |
| HEALTHCARE_OUTPATIENT           | Healthcare (outpatient)           |       |
| HOSPITAL                        | Hospital                          |       |
| HOTEL_MOTEL_SMALL               | Hotel/motel - Small               |       |
| HOTEL_MOTEL_LARGE               | Hotel/motel - Large               |       |
| OFFICE_SMALL                    | Office - Small                    |       |
| OFFICE_MEDIUM                   | Office - Medium                   |       |
| OFFICE_LARGE                    | Office - Large                    |       |
| RESTAURANT_QUICK_SERVICE        | Restaurant (quick service)        |       |
| RESTAURANT_FULL_SERVICE         | Restaurant (full service)         |       |
| RETAIL_STAND_ALONE              | Retail (stand alone)              |       |
| RETAIL_STRIP_MALL               | Retail (strip mall)               |       |
| SCHOOL_PRIMARY                  | School (primary)                  |       |
| SCHOOL_SECONDARY_AND_UNIVERSITY | School (secondary and university) |       |
| WAREHOUSE_NONREFRIGERATED       | Warehouse (nonrefrigerated)       |       |

## FenestrationFrameType2019ASHRAE901

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| Enumerator             | Description                    | Notes |
|------------------------|--------------------------------|-------|
| ALUMINUM_WITHOUT_BREAK | Aluminum without Thermal Break |       |
| ALUMINUM_WITH_BREAK    | Aluminum with Thermal Break    |       |
| REINFORCED_VINYL       | Reninforced Vinyl              |       |
| ALUMINUM_CLAD_WOOD     | Aluminum Clad Wood             |       |
| WOOD                   | Wood                           |       |
| VINYL                  | Vinyl                          |       |
| STRUCTURAL_GLAZING     | Structural Glazing             |       |
| METAL_WITHOUT_BREAK    | Metal without Thermal Break    |       |
| METAL_WITH_BREAK       | Metal with Thermal Break       |       |
| FIBERGLASS             | Fiberglass                     |       |
| OTHER                  | Other                          |       |

## RefrigerationType2019ASHRAE901

| Enumerator                                 | Description                                | Notes |
|--|--|-------|
| COMMERCIAL_REFRIGERATION                   | Commercial refrigeration                   |       |
| COMMERCIAL_REFRIGERATOR_SOLID_DOOR         | Commercial refrigerator solid door         |       |
| COMMERCIAL_REFRIGERATOR_TRANSPARENT_DOOR   | Commercial refrigerator transparent door   |       |
| COMMERCIAL_FREEZER_SOLID_DOOR              | Commercial freezer solid door              |       |
| COMMERCIAL_FREEZER_TRANSPARENT_DOOR        | Commercial freezer transparent door        |       |
| COMMERCIAL_PULLDOWN_REFRIGERATOR           | Commercial pulldown refrigerator           |       |
| COMMERCIAL_REFRIGERATOR_FREEZER_SOLID_DOOR | Commercial refrigerator freezer solid door |       |
| OTHER                                      | Other                                      |       |

## RefrigerationClass2019ASHRAE901

| Enumerator | Description  | Notes |
|------------|--|-------|
| VOP_RC_M   | Vertical open - Remote condensing - Medium temperature               |       |
| SVO_RC_M   | Semivertical open - Remote condensing - Medium temperature           |       |
| HZO_RC_M   | Horizontal open - Remote condensing - Medium temperature             |       |
| VOP_RC_L   | Vertical open - Remote condensing - Low temperature                  |       |
| HZO_RC_L   | Horizontal open - Remote condensing - Low temperature                |       |
| VCT_RC_M   | Vertical transparent door - Remote condensing - Medium temperature   |       |
| VCT_RC_L   | Vertical transparent door - Remote condensing - Low temperature      |       |
| SOC_RC_M   | Service over counter - Remote condensing - Medium temperature        |       |
| VOP_SC_M   | Vertical open - Self-contained - Medium temperature                  |       |
| SVO_SC_M   | Semivertical open - Self-contained - Medium temperature              |       |
| HZO_SC_M   | Horizontal open - Self-contained - Medium temperature                |       |
| HZO_SC_L   | Horizontal open - Self-contained - Low temperature                   |       |
| VCT_SC_I   | Vertical transparent door - Self-contained - Ice cream               |       |
| VCS_SC_I   | Vertical solid door - Self-contained - Ice cream                     |       |
| HCT_SC_I   | Horizontal transparent door - Self-contained - Ice cream             |       |
| SVO_RC_L   | Semivertical open - Remote condensing - Low temperature              |       |
| VOP_RC_I   | Vertical open - Remote condensing - Ice cream                        |       |
| SVO_RC_I   | Semivertical open - Remote condensing - Ice cream                    |       |
| HZO_RC_I   | Horizontal open - Remote condensing - Ice cream                      |       |
| VCT_RC_I   | Vertical transparent door - Remote condensing - Ice cream            |       |
| HCT_RC_M   | Horizontal transparent door - Remote condensing - Medium temperature |       |
| HCT_RC_L   | Horizontal transparent door - Remote condensing - Low temperature    |       |
| HCT_RC_I   | Horizontal transparent door - Remote condensing - Ice cream          |       |
| VCS_RC_M   | Vertical solid door - Remote condensing - Medium temperature         |       |
| VCS_RC_L   | Vertical solid door - Remote condensing - Low temperature            |       |
| VCS_RC_I   | Vertical solid door - Remote condensing - Ice cream                  |       |

| Enumerator | Description  | Notes |
|------------|--|-------|
| HCS_RC_M   | Horizontal solid door - Remote condensing - Medium temperature |       |
| HCS_RC_L   | Horizontal solid door - Remote condensing - Low temperature    |       |
| HCS_RC_I   | Horizontal solid door - Remote condensing - Ice cream          |       |
| SOC_RC_L   | Service over counter - Remote condensing - Low temperature     |       |
| SOC_RC_I   | Service over counter - Remote condensing - Ice cream           |       |
| VOP_SC_L   | Vertical open - Self contained - Low temperature               |       |
| VOP_SC_I   | Vertical open - Self-contained - Ice cream                     |       |
| SVO_SC_L   | Semivertical open - Self-contained - Low temperature           |       |
| SVO_SC_I   | Semivertical open - Self-contained - Ice cream                 |       |
| HZO_SC_I   | Horizontal open - Self-contained - Ice cream                   |       |
| SOC_SC_I   | Service over counter - Self-contained - Ice cream              |       |
| HCS_SC_I   | Horizontal solid door - Self-contained - Ice cream             |       |

## PrescribedSchedules2019ASHRAE901

| Enumerator     | Description   | Notes |
|----------------|---|-------|
| NOT_APPLICABLE | No prescribed schedules for Appendix G of ASHRAE Standard 90.1-2019. This field may be relevant for other rulesets. |       |

## SpaceStatusType2019ASHRAE901

| Enumerator | Description | Notes |
|------------|-------------|-------|
| NEW        | New         |       |
| EXISTING   | Existing    |       |
| ADDITION   | Addition    |       |
| ALTERATION | Alteration  |       |

## AdditionalSurfaceAdjacentTo2019ASHRAE901

| Enumerator    | Description  | Notes |
|---------------|--|-------|
| UNENCLOSED    | The space on the other side of the surface is assumed to be unenclosed. The space on the other side of the surface is not explicitly modeled.    |       |
| UNCONDITIONED | The space on the other side of the surface is assumed to be unconditioned. The space on the other side of the surface is not explicitly modeled. |       |
| UNHEATED      | Surface adjacent to a environment that is not heated but enclosed. The space on the other side of the surface is not explicitly modeled.         |       |
| SEMIHEATED    | Surface adjacent to a environment that is semi-heated. The space on the other side of the surface is not explicitly modeled.                     |       |