

# AdditionalSurfaceAdjacencyOptions2019ASHRAE901

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.	
SEMIHEATED	Surface adjacent to a environment that is semi-heated.	

# ClimateZoneOptions2019ASHRAE901

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	

Enumerator	Description	Notes
CZ5C	Cool - Marine	
CZ6A	Cold - Humid	
CZ6B	Cold - Dry	
CZ7	Very cold	
CZ8	Subarctic/arctic	

## CompliancePathOptions2019ASHRAE901

Enumerator	Description	Notes
CODE_COMPLIANT	Code Compliance	
BEYOND_CODE	Beyond Code	

## ConstructionClassificationOptions2019ASHRAE901

Enumerator	Description	Notes
STEEL_FRAMED	Steel-framed	

## EnvelopeSpaceOptions2019ASHRAE901

Enumerator	Description	Notes
NONRESIDENTIAL_CONDITIONED	Nonresidential conditioned	
RESIDENTIAL_CONDITIONED	Residential conditioned	
SEMIHEATED	Semiheated	
UNCONDITIONED	Unconditioned	

# Exterior Lighting Area Options 2019 ASHRAE 90.1 Table G36

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	
BUILDING_FACADE	Building facade	
AUTOMATED_TELLER_MACHINES	Automated teller machines	
NIGHT_DEPOSITORIES	Night depositories	
ENTRANCE_AND_GATEHOUSE	Entrance and gatehouses	Entrances and gatehouse inspection stations at guarded facilities.
EMERGENCY_VEHICLE_LOADING_AREA	Emergency vehicle loading area	Loading areas for law enforcement, fire, ambulance and other emergency service vehicles

Enumerator	Description	Notes
DRIVE_UP_WINDOWS_FAST_FOOD	Drive-up windows at fast-food restaurants	
PARKING_NEAR_24HR_RETAIL_ENTRANCES	Parking near 24-hour retail entrances	
MISCELLANEOUS_TRADABLE	Miscellaneous tradable	This option would most often be used by software that does not support entire schema and doesn't know if exterior lighting is in a specific type but does know if it is tradable
MISCELLANEOUS_NON_TRADABLE	Miscellaneous non-tradable	This option would most often be used by software that does not support entire schema and doesn't know if exterior lighting is in a specific type but does know if it is non-tradable

## ExteriorLightingZoneOptions2019ASHRAE901

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	

Enumerator	Description	Notes
ZONE_4_HIGH_ACTIVITY_COMMERCIAL	Zone 4 - high-activity commercial	High-activity commercial districts in major metropolitan areas as designated by the local jurisdiction

## HeatingVentilatingAirConditioningBuildingAreaOptions2019ASHRAE901

Enumerator	Description	Notes
RESIDENTIAL	Residential	
PUBLIC_ASSEMBLY	Public assembly	
RETAIL	Retail	
HOSPITAL	Hospital	
HEATED_ONLY_STORAGE	Heated only storage	
OTHER_NON_RESIDENTIAL	Other non-residential	

## LightingBuildingAreaOptions2019ASHRAE901T951TG38

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	

Enumerator	Description	Notes
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	
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.

# LightingPurposeOptions2019ASHRAE901

Enumerator	Description	Notes
GENERAL	General	
TASK	Task	
DECORATIVE	Decorative	
RETAIL_DISPLAY	Retail display	
UNREGULATED	Unregulated	

# LightingSpaceOptions2019ASHRAE901TG37

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	

Enumerator	Description	Notes
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	
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_EXCEPT_IN_OR_AS_A_CLASSROOM	Laboratory - Except in or as a classroom	
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	



Enumerator	Description	Notes
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)	
CONVENTION_CENTER_EXHIBIT_SPACE	Convention Center - Exhibit Space	
DORMITORY_LIVING_QUARTERS	Dormitory - Living Quarters	
FIRE_STATION_SLEEPING_QUARTERS	Fire Station - 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 - Nurse'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	

Enumerator	Description	Notes
MUSEUM_RESTORATION_ROOM	Museum - Restoration room	
POST_OFFICE_SORTING_AREA	Post Office - 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 - Playing Area - Class I facility	
SPORTS_ARENA_PLAYING_AREA_CLASS_II_FACILITY	Sports Arena - Playing Area - Class II facility	
SPORTS_ARENA_PLAYING_AREA_CLASS_III_FACILITY	Sports Arena - Playing Area - Class III facility	
SPORTS_ARENA_PLAYING_AREA_CLASS_IV_FACILITY	Sports Arena - 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 - Storage Area - Medium to bulky, palletized items	
WAREHOUSE_STORAGE_AREA_SMALLER_HAND_CARRIED_ITEMS	Warehouse - Storage Area - Smaller, hand-carried items	

## OutputSchemaOptions2019ASHRAE901

Enumerator	Description	Notes
OUTPUT_SCHEMA_ASHRAE901_2019	Output schema for ASHRAE 90.1 2019	

## PrescribedScheduleOptions2019ASHRAE901

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.	

# RulesetModelOptions2019ASHRAE901

Enumerator	Description	Notes
<code>BASELINE_0</code>	The building model that corresponds with the Baseline Buildings Performance column of Appendix G Table G3.1 with no rotation	
<code>BASELINE_90</code>	The building model that corresponds with the Baseline Buildings Performance column of Appendix G Table G3.1 with 90 degree rotation	
<code>BASELINE_180</code>	The building model that corresponds with the Baseline Buildings Performance column of Appendix G Table G3.1 with 180 degree rotation	
<code>BASELINE_270</code>	The building model that corresponds with the Baseline Buildings Performance column of Appendix G Table G3.1 with 270 degree rotation	

# ServiceWaterHeatingSpaceOptions2019ASHRAE901

Enumerator	Description	Notes
<code>AUTOMOTIVE_FACILITY</code>	Automotive facility	
<code>CONVENIENCE_STORE</code>	Convenience store	
<code>CONVENTION_CENTER</code>	Convention center	
<code>COURTHOUSE</code>	Courthouse	
<code>DINING_BAR_LOUNGE_LEISURE</code>	Dining: Bar lounge/leisure	
<code>DINING_CAFETERIA_FAST_FOOD</code>	Dining: Cafeteria/fast food	
<code>DINING_FAMILY</code>	Dining: Family	
<code>DORMITORY</code>	Dormitory	
<code>EXERCISE_CENTER</code>	Exercise center	
<code>FIRE_STATION</code>	Fire station	
<code>GROCERY_STORE</code>	Grocery store	
<code>GYMNASIUM</code>	Gymnasium	
<code>HEALTH_CARE_CLINIC</code>	Health-care clinic	

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

## SubsurfaceFrameOptions2019ASHRAE901

Enumerator	Description	Notes
ALUMINUM_WITHOUT_BREAK	Aluminum without Thermal Break	

Enumerator	Description	Notes
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	

## SubsurfaceSubclassificationOptions2019A SHRAE901

Enumerator	Description	Notes
METAL_COILING_DOOR	an upward-acting, nonswinging door assembly consisting of interlocking horizontal slats or sheets that, upon opening the door, roll up around a horizontal barrel above the door opening.	
NONSWINGING_DOOR	roll-up, metal coiling, sliding, and any other door that is not a swinging door.	
SECTIONAL_GARAGE_DOOR	an upward-acting, nonswinging door assembly made of two or more horizontal panels hinged together vertically.	
SWINGING_DOOR	a door having an operable opaque panel with hinges or pivots on one side.	
SPANDREL_GLASS	opaque glass that conceals structural building components from being visible from the exterior of the building	
GLASS_BLOCK	a translucent, hollow or solid block of glass for glazing openings or constructing partitions	
OTHER	other subclassifications	

# VentilationSpaceOptions2019ASHRAE901

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

Enumerator	Description	Notes
FOOD_AND_BEVERAGE_SERVICE_BARS_COCKTAIL_LOUNGES	Food and Beverage Service - Bars, cocktail lounges	
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 operatory	
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	
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	



Enumerator	Description	Notes
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	

# VerticalFenestrationBuildingAreaOptions 2019ASHRAE901

Enumerator	Description	Notes
GROCERY_STORE	Grocery store	
HEALTHCARE_OUTPATIENT	Healthcare (outpatient)	

Enumerator	Description	Notes
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)	
OTHER	Other	