

## Supported IFC Object Types

### Building elements

IfcWall  
IfcBeam  
IfcColumn  
IfcChimney  
IfcCovering  
IfcDoor  
IfcFooting  
IfcFurniture  
IfcMember  
IfcPile  
IfcRailing  
IfcRamp  
IfcRampFlight  
IfcRoof  
IfcShadingDevice  
IfcSlab  
IfcStairFlight  
IfcWindow  
IfcPlate

### Element components

IfcDiscreteAccessory  
IfcFastener  
IfcMechanicalFastener  
IfcBuildingElementPart

IfcReinforcingBar  
IfcReinforcingMesh  
IfcTendon

### Other elements

IfcTransportElement  
IfcGeographicElement

### Distribution elements

IfcActuator  
IfcAlarm  
IfcController  
IfcFlowInstrument  
IfcProtectiveDeviceTrippingUnit  
IfcSensor  
IfcUnitaryControlElement

IfcDistributionChamberElement

IfcAirToAirHeatRecovery  
IfcBoiler  
IfcBurner  
IfcChiller  
IfcCoil  
IfcCondenser  
IfcCooledBeam  
IfcCoolingTower

IfcElectricGenerator  
IfcElectricMotor  
IfcEngine  
IfcEvaporativeCooler  
IfcEvaporator  
IfcHeatExchanger  
IfcHumidifier  
IfcMotorConnection  
IfcSolarDevice  
IfcTransformer  
IfcTubeBundle  
IfcUnitaryEquipment

IfcAirTerminalBox  
IfcDamper  
IfcElectricDistributionBoard  
IfcElectricTimeControl  
IfcFlowMeter  
IfcProtectiveDevice  
IfcSwitchingDevice  
IfcValve

IfcCableCarrierFitting  
IfcCableFitting  
IfcDuctFitting  
IfcJunctionBox  
IfcPipeFitting

IfcCompressor  
IfcFan  
IfcPump

IfcCableCarrierSegment  
IfcCableSegment  
IfcDuctSegment  
IfcPipeSegment

IfcElectricFlowStorageDevice  
IfcTank

IfcAirTerminal  
IfcAudioVisualAppliance  
IfcCommunicationsAppliance  
IfcElectricAppliance  
IfcFireSuppressionTerminal  
IfcLamp  
IfcLightFixture  
IfcMedicalDevice  
IfcOutlet  
IfcSanitaryTerminal  
IfcSpaceHeater  
IfcStackTerminal  
IfcWasteTerminal

IfcDuctSilencer  
IfcFilter

IfcInterceptor

## Predefined Subtypes

IfcBeam

- BEAM
- JOIST
- HOLLOWCORE
- LINTEL
- SPANDREL
- T\_BEAM
- USERDEFINED
- NOTDEFINED

IfcBeamType

IfcBuildingElementProxy

- COMPLEX
- ELEMENT
- PARTIAL
- PROVISIONFORVOID
- USERDEFINED
- NOTDEFINED

IfcBuildingElementProxyType

IfcChimney

- USERDEFINED
- NOTDEFINED

IfcChimneyType

IfcColumn

- COLUMN
- PILASTER
- USERDEFINED
- NOTDEFINED

IfcColumnType

IfcCovering

- CEILING
- FLOORING
- CLADDING
- ROOFING
- MOLDING
- SKIRTINGBOARD
- INSULATION
- MEMBRANE
- SLEEVING
- WRAPPING
- USERDEFINED
- NOTDEFINED

IfcCoveringType

IfcCurtainWall

IfcCurtainWallType

- USERDEFINED
- NOTDEFINED

IfcDoor

IfcDoorType

- DOOR
- GATE
- TRAPDOOR
- USERDEFINED
- NOTDEFINED

IfcFooting

IfcFootingType

- CAISSON\_FOUNDATION
- FOOTING\_BEAM
- PAD\_FOOTING
- PILE\_CAP
- STRIP\_FOOTING
- USERDEFINED
- NOTDEFINED

IfcMember

IfcMemberType

- BRACE
- CHORD
- COLLAR
- MEMBER
- MULLION
- PLATE
- POST
- PURLIN
- RAFTER
- STRINGER
- STRUT
- STUD
- USERDEFINED
- NOTDEFINED

IfcPile

IfcPileType

- BORED
- DRIVEN
- JETGROUTING
- COHESION
- FRICTION
- SUPPORT
- USERDEFINED
- NOTDEFINED

IfcPlate

IfcPlateType

- CURTAIN\_PANEL

- SHEET
- USERDEFINED
- NOTDEFINED

#### IfcRailing

#### IfcRailingType

- HANDRAIL
- GUARDRAIL
- BALUSTRADE
- USERDEFINED
- NOTDEFINED

#### IfcRamp

#### IfcRampType

- STRAIGHT\_RUN\_RAMP
- TWO\_STRAIGHT\_RUN\_RAMP
- QUARTER\_TURN\_RAMP
- TWO\_QUARTER\_TURN\_RAMP
- HALF\_TURN\_RAMP
- SPIRAL\_RAMP
- USERDEFINED
- NOTDEFINED

#### IfcRampFlight

#### IfcRampFlightType

- STRAIGHT
- SPIRAL
- USERDEFINED
- NOTDEFINED

#### IfcRoof

#### IfcRoofType

- FLAT\_ROOF
- SHED\_ROOF
- GABLE\_ROOF
- HIP\_ROOF
- HIPPED\_GABLE\_ROOF
- GAMBREL\_ROOF
- MANSARD\_ROOF
- BARREL\_ROOF
- RAINBOW\_ROOF
- BUTTERFLY\_ROOF
- PAVILION\_ROOF
- DOME\_ROOF
- FREEFORM
- USERDEFINED
- NOTDEFINED

#### IfcShadingDevice

#### IfcShadingDeviceType

- JALOUSIE
- SHUTTER

- AWNING
- USERDEFINED
- NOTDEFINED

IfcSlab

IfcSlabType

- FLOOR
- ROOF
- LANDING
- BASESLAB
- USERDEFINED
- NOTDEFINED

IfcStair

IfcStairType

- STRAIGHT\_RUN\_STAIR
- TWO\_STRAIGHT\_RUN\_STAIR
- QUARTER\_WINDING\_STAIR
- QUARTER\_TURN\_STAIR
- HALF\_WINDING\_STAIR
- HALF\_TURN\_STAIR
- TWO\_QUARTER\_WINDING\_STAIR
- TWO\_QUARTER\_TURN\_STAIR
- THREE\_QUARTER\_WINDING\_STAIR
- THREE\_QUARTER\_TURN\_STAIR
- SPIRAL\_STAIR
- DOUBLE\_RETURN\_STAIR
- CURVED\_RUN\_STAIR
- TWO\_CURVED\_RUN\_STAIR
- USERDEFINED
- NOTDEFINED

IfcStairFlight

IfcStairFlightType

- STRAIGHT
- WINDER
- SPIRAL
- CURVED
- FREEFORM
- USERDEFINED
- NOTDEFINED

IfcWall

IfcWallType

- MOVABLE
- PARAPET
- PARTITIONING
- PLUMBINGWALL
- SHEAR
- SOLIDWALL
- STANDARD

- POLYGONAL
- ELEMENTEDWALL
- USERDEFINED
- NOTDEFINED

#### IfcWindow

#### IfcWindowType

- WINDOW
- SKYLIGHT
- LIGHTDOME
- USERDEFINED
- NOTDEFINED

#### IfcDuctSegment

#### IfcDuctSegmentType

- RIGIDSEGMENT
- FLEXIBLESEGMENT
- USERDEFINED
- NOTDEFINED

#### IfcPipeSegment

#### IfcPipeSegmentType

- CULVERT
- FLEXIBLESEGMENT
- RIGIDSEGMENT
- GUTTER
- SPOOL
- USERDEFINED
- NOTDEFINED

#### IfcElectricAppliance

#### IfcElectricApplianceType

- DISHWASHER
- ELECTRICCOOKER
- FREESTANDINGELECTRICHEATER
- FREESTANDINGFAN
- FREESTANDINGWATERHEATER
- FREESTANDINGWATERCOOLER
- FREEZER
- FRIDGE\_FREEZER
- HANDDRYER
- KITCHENMACHINE
- MICROWAVE
- PHOTOCOPIER
- REFRIGERATOR
- TUMBLEDRYER
- VENDINGMACHINE
- WASHINGMACHINE
- USERDEFINED
- NOTDEFINED

#### IfcLamp

- COMPACTFLUORESCENT
- FLUORESCENT
- HALOGEN
- HIGHPRESSUREMERCURY
- HIGHPRESSURESODIUM
- LED
- METALHALIDE
- OLED
- TUNGSTENFILAMENT
- USERDEFINED
- NOTDEFINED

#### IfcLampType

#### IfcSanitaryTerminal

- BATH
- BIDET
- CISTERN
- SHOWER
- SINK
- SANITARYFOUNTAIN
- TOILETPAN
- URINAL
- WASHHANDBASIN
- WCSEAT
- USERDEFINED
- NOTDEFINED

#### IfcSanitaryTerminalType

#### IfcElementAssembly

#### IfcElementAssemblyType

#### IfcElementComponent

#### IfcElementComponentType

- ACCESSORY\_ASSEMBLY
- ARCH
- BEAM\_GRID
- BRACED\_FRAME
- GIRDER
- REINFORCEMENT\_UNIT
- RIGID\_FRAME
- SLAB\_FIELD
- TRUSS
- USERDEFINED
- NOTDEFINED

#### IfcBuildingElementPart

#### IfcBuildingElementPartType

- INSULATION
- PRECASTPANEL
- USERDEFINED
- NOTDEFINED



#### IfcReinforcingBar

- ANCHORING
- EDGE
- LIGATURE
- MAIN
- PUNCHING
- RING
- SHEAR
- STUD
- USERDEFINED
- NOTDEFINED

#### IfcReinforcingBarType

#### IfcReinforcingMesh

- USERDEFINED
- NOTDEFINED

#### IfcReinforcingMeshType

#### IfcOpeningElement

- OPENING
- RECESS
- USERDEFINED
- NOTDEFINED

#### IfcOpeningElementType

#### IfcFurniture

- CHAIR
- TABLE
- DESK
- BED
- FILECABINET
- SHELF
- SOFA
- USERDEFINED
- NOTDEFINED

#### IfcFurnitureType

#### IfcGeographicElement

- TERRAIN
- USERDEFINED
- NOTDEFINED

#### IfcGeographicElementType