

# Trapdoor

A door is predominately used to provide controlled access for people and goods. It includes constructions with hinged, pivoted, sliding, and additionally revolving and folding operations. A door consists of a lining and one or several panels.

A trapdoor is special door that lies horizontally in a slab opening. Often used for accessing cellar or attic.

## IFC 2x3 note

For IFC2x3 there are no PredefinedType enumerators for a door and a trapdoor is simply treated as a door. Do not designate a PredefinedType.

IfcElementType	IfcDoor	=IfcExportAs
IfcPredefinedType	TRAPDOOR	=IfcExportType
Suggested Filename:	Trapdoor	
Suggested LOD (Design Model)	300	
Suggested Primary Discipline	Architectural	

## Source

## Property Categories

## Classification

BIM Forum	Admin data	Masterformat	08 31 13 : Access Doors and Frames
COBie	Code compliance data	NatspecWorksection	0453 Doors and access panels
IFC 2x3	Construction logistics data	Omniclass Table 21 Elements	21-03 10 30 80 : Interior Access Doors and Panels
IFC4 Add2	Cost data		
NATSPEC BIM	Facilities management data	Omniclass Table 22 Work Results	22-08 31 13 : Access Doors and Frames
NATSPEC Spec	Geometric data	Omniclass Table 23 Products	23-17 11 27 : Access Doors
	Manufacturer data	Uniclass Elements	EF_25_30 : Doors and windows
	Performance data	Uniclass Products	Pr_30_59_36 : Hatches and access panels
	Scheduling data	Uniclass Systems	Ss_25_30_20_35 : Hatch systems
	Spatial and location data	Uniformat	C1030.80 : Interior Access Doors and Panels
	Specification data		
	Sustainability data		

Property	Source	Description
Admin data		
CreatedBy	NATSPEC BIM	The name of the person, organisation or library provider that created the object.
CreatedByURL	NATSPEC BIM	URL hyperlink to the object creator's website.
ModifiedIssue	NATSPEC BIM	To record the last date of issue (version or revision) of the object within an object library. Add the date in the following format <yyyymmdd.no> where the 'no' suffix is equal to the number of times the object has been issued on that date. For example 20180316.01.
Reference	PSet_DoorCommon (IFC4) PSet_DoorCommon (IFC2x3)	Reference ID for a specified type in a project (e.g. type 'A-1'). Also known as Construction type. Provide as an alternative to the name of the object type, if software does not support object types.
Code compliance data		
EgressHeight	NATSPEC BIM	
EgressRequirement	NATSPEC BIM	
EgressWidth	NATSPEC BIM	
FireExit	PSet_DoorCommon (IFC4) PSet_DoorCommon (IFC2x3)	<b>Complete value with:</b> TRUE or FALSE (IfcBoolean)
FireRating	BIM ForumNATSPEC BIM PSet_DoorCommon (IFC4) PSet_DoorCommon (IFC2x3)	Fire rating of object. Also known as the FRL (Fire Resistance Level) e.g. 60/60/60.
HandicapAccessible	PSet_DoorCommon (IFC4) PSet_DoorCommon (IFC2x3)	<b>Complete value with:</b> TRUE or FALSE (IfcBoolean)
SmokeStop	PSet_DoorCommon (IFC4) PSet_DoorCommon (IFC2x3)	Is object is designed to provide a smoke stop. <b>Complete value with:</b> TRUE or FALSE (IfcBoolean)

Construction logistics data		
ConstructionMethod	NATSPEC BIM	
GrossWeight	NATSPEC BIM	
ShippingWeight	NATSPEC BIM	
Status	PSet_DoorCommon (IFC4)	Status of the object, predominately used in renovation or retrofitting projects. <b>Complete value with:</b> NEW, EXISTING, DEMOLISH, TEMPORARY, OTHER, NOTKNOWN or UNSET
StoragePlacementOnSite	NATSPEC BIM	
Cost data		
AdditionalTax	NATSPEC BIM	
AssemblyCost	NATSPEC BIM	
AssetAccountingType	Pset_Asset (IFC4)Pset_Asset (IFC2x3)	Asset type for accounting purposes. <b>Complete value with:</b> FIXED, NONFIXED, OTHER, NOTKNOWN or UNSET (PEnum_AssetAccountingType)
AssetInsuranceType	Pset_Asset (IFC4)Pset_Asset (IFC2x3)	Type of insurance rating. <b>Complete value with:</b> PERSONAL, REAL, OTHER, NOTKNOWN or UNSET (PEnum_AssetInsuranceType)
AssetTaxType	Pset_Asset (IFC4)Pset_Asset (IFC2x3)	Type of taxation group. <b>Complete value with:</b> CAPITALISED, EXPENDED, OTHER, NOTKNOWN or UNSET (PEnum_AssetTaxType)
ConceptualCost	NATSPEC BIM	
CostOverRun	NATSPEC BIM	
FutureCostAssumptions	NATSPEC BIM	

InstallationCost	NATSPEC BIM	
InstalledCost	NATSPEC BIM	
PurchaseInformation	NATSPEC BIM	
RecordedActualCost	NATSPEC BIM	
ShippingCost	NATSPEC BIM	
TotalOwnershipCost	NATSPEC BIM	
Facilities management data		
AccessibilityPerformance	COBie_ElementTypeCOBie_Specification	Accessibility issue(s) that product satisfies.
AcquisitionDate	Pset_ManufacturerOccurrence (IFC4) Pset_ManufacturerOccurrence (IFC2x3)	Date the item was purchased (Format: YYYY-MM-DD).
AssessmentCondition	NATSPEC BIM Pset_Condition (IFC4)	Overall condition rating based on assessment. Rating scale to be agreed prior (e.g. Good, OK , Poor).
AssessmentDate	Pset_Condition (IFC4)	Date of overall condition assessment (Format: YYYY-MM-DD).
AssessmentDescription	Pset_Condition (IFC4)	Qualitative description of the condition.
AssetIdentifier	COBie_Component	Alternative identifier for specific component, used as defined by contract.
AssetType	COBie_AssetCOBie_ElementType	<b>Complete value with:</b> 'Fixed' or 'Movable'
Category	COBie	Classification code.
CodePerformance	COBie_ElementTypeCOBie_Specification	Code compliance requirement(s) that product satisfies.
ComponentID	NATSPEC BIM	
Constituents	COBie_ElementTypeCOBie_Specification	Details of various parts of the object.

Description	COBie	Concise description of the object.
DurationUnit	COBie	Units used to record expected life duration. Typically 'year'.
Exclusions	Pset_Warranty (IFC4) Pset_Warranty (IFC2x3)	Items, conditions or actions that may be excluded from the warranty or that may cause the warranty to become void.
ExpectedLife	NATSPEC BIM COBie	Expected serviceable life of object.
Features	COBie_ElementType COBie_Specification	Primary features or important characteristics of the product.
Grade	COBie_ElementType COBie_Specification	Standard grading(s) to which the product corresponds.
InstallationDate	NATSPEC BIM COBie_Component	Format: YYYY-MM-DD.
IsExtendedWarranty	Pset_Warranty (IFC4) Pset_Warranty (IFC2x3)	<b>Complete value with:</b> TRUE or FALSE (IfcBoolean)
ModelNumber	COBie	Model number or designator of the product model (or product line) as assigned by the manufacturer.
Name	COBie	Unique human readable name for object type.
ReplacementCost	NATSPEC BIM COBie_EconomicImpactValues COBie_ElementType	Cost to replace product.
Shape	COBie_ElementType COBie_Specification	Characteristic shape of the object. e.g. Square.
SustainabilityPerformance	COBie_ElementType COBie_Specification	Sustainability issue(s) that product satisfies.
TagNumber	COBie_Component	Tag number for product or equipment at installation.
WarrantyContent	NATSPEC BIM Pset_Warranty (IFC4) Pset_Warranty (IFC2x3)	Description of what is included in warranty.
WarrantyDescription	COBie_Warranty	Concise description of warranty content and any items, conditions or actions that are excluded from warranty or that will cause the warranty to become void.

WarrantyDurationLabor	COBie_Warranty	Duration of labour warranty.
WarrantyDurationParts	COBie_Warranty	Duration of parts warranty.
WarrantyDurationUnit	COBie	Units used to record warranty durations. Typically 'year'.
WarrantyEndDate	NATSPEC BIMPset_Warranty (IFC4) Pset_Warranty (IFC2x3)	Format: YYYY-MM-DD.
WarrantyGuarantorLabor	COBie_Warranty	email address for organisation responsible for labour warranty.
WarrantyGuarantorParts	COBie_Warranty	email address for organisation responsible for parts warranty.
WarrantyIdentifier	Pset_Warranty (IFC4)Pset_Warranty (IFC2x3)	Identifier assigned to warranty.
WarrantyPeriod	Pset_Warranty (IFC4)Pset_Warranty (IFC2x3)	
WarrantyStartDate	NATSPEC BIMCOBie_Component Pset_Warranty (IFC4)Pset_Warranty (IFC2x3)	Format: YYYY-MM-DD.
Geometric data		
Area	NATSPEC BIMQto_DoorBaseQuantities (IFC4)	
CrossSectionArea	NATSPEC BIM	
FloorClearance	NATSPEC Spec	
Height	NATSPEC BIMQto_DoorBaseQuantities (IFC4)	
JoineryDoorPanelThickness	NATSPEC Spec	
MullionThickness	NATSPEC BIM	
MullionWidth	NATSPEC BIM	

NominalHeight	COBie_ElementTypeCOBie_Specification	Typically the vertical characteristic dimension of the object.
NominalLength	COBie_ElementTypeCOBie_Specification	Typically the primary or larger of the two perpendicular horizontal dimensions of the object.
NominalWidth	COBie_ElementTypeCOBie_Specification	Typically the secondary or smaller of the two perpendicular horizontal dimensions of the object.
Perimeter	Qto_DoorBaseQuantities (IFC4)	
Size	NATSPEC BIMCOBie_ElementType COBie_SpecificationNATSPEC Spec	
Thickness	NATSPEC Spec	
Width	NATSPEC BIMQto_DoorBaseQuantities (IFC4)	
Manufacturer data		
Accessories	NATSPEC BIM	Details of available accessories.
ArticleNumber	Pset_ManufacturerTypeInfoInformation (IFC4) Pset_ManufacturerTypeInfoInformation (IFC2x3)	Reference applied to product, according to scheme for article number definition defined by manufacturer. Often used as purchasing number.
AssemblyPlace	NATSPEC BIM Pset_ManufacturerTypeInfoInformation (IFC4)	Defines where assembly is to take place. <b>Complete value with:</b> SITE, FACTORY or NOTDEFINED (IfcAssemblyPlaceEnum)
Availability	NATSPEC BIM	
BarCode	COBiePset_ManufacturerOccurrence (IFC4)Pset_ManufacturerOccurrence (IFC2x3)	Bar code given to occurrence of the product.
BatchReference	Pset_ManufacturerOccurrence (IFC4) Pset_ManufacturerOccurrence (IFC2x3)	Identity of the batch from which the occurrence of the product is taken.

Defects	NATSPEC BIM	To record any defects found.
GlobalTradeItemNumber	Pset_ManufacturerTypeInformation (IFC4)	GTIN is an identifier for trade items developed by GS1 (www.gs1.org).
Manufacturer	COBieNATSPEC BIM Pset_ManufacturerTypeInformation (IFC4) NATSPEC Spec Pset_ManufacturerTypeInformation (IFC2x3)	Name of the manufacturer (or assembler).
ManufacturerURL	NATSPEC BIM	URL hyperlink to the manufacturer's website.
ModelLabel	Pset_ManufacturerTypeInformation (IFC4) NATSPEC BIM	The descriptive model name of the product model (or product line) as assigned by the manufacturer of the manufactured item.
ModelLabel	Pset_ManufacturerTypeInformation (IFC2x3)	The model number and/or unit designator assigned by the manufacturer of the manufactured item.
ModelReference	Pset_ManufacturerTypeInformation (IFC4) NATSPEC BIM NATSPEC Spec	The model number or designator of the product model (or product line) as assigned by the manufacturer of the manufactured item.
ModelReference	Pset_ManufacturerTypeInformation (IFC2x3)	The name of the manufactured item as used by the manufacturer.
OrderNumber	NATSPEC BIM	
PointOfContact	Pset_Warranty (IFC4) Pset_Warranty (IFC2x3)	Organization that should be contacted for action under the terms of the warranty.
ProductInformation	NATSPEC BIM	A valid URL hyperlink to further product information, such as technical documentation, installation guides, etc.
ProductType	NATSPEC BIM	
ProductionYear	Pset_ManufacturerTypeInformation (IFC4) NATSPEC BIM Pset_ManufacturerTypeInformation (IFC2x3)	



SerialNumber	COBiePset_ManufacturerOccurrence (IFC4) NATSPEC BIM Pset_ManufacturerOccurrence (IFC2x3)	Serial number assigned to an occurrence of a product.
Performance data		
AcousticRating	BIM Forum NATSPEC BIM PSet_DoorCommon (IFC4) PSet_DoorCommon (IFC2x3)	Acoustic rating for the object. Indicates the sound transmission resistance of the object by an index ratio.
DoorsetFRL	NATSPEC Spec	
DoorsetWeightedSoundReductionIndex	NATSPEC Spec	
DurabilityRating	PSet_DoorCommon (IFC4)	Durability against mechanical stress. Given according to national code or regulation.
EgressCategory	BIM Forum	
ForcedEntryResistance	BIM Forum	
HygrothermalRating	PSet_DoorCommon (IFC4)	
Infiltration	PSet_DoorCommon (IFC4) PSet_DoorCommon (IFC2x3)	Infiltration flowrate.
RValue	BIM Forum NATSPEC BIM	
SolarHeatGainCoefficient	BIM Forum	
ThermalTransmittance	NATSPEC BIM PSet_DoorCommon (IFC4) PSet_DoorCommon (IFC2x3)	Thermal transmittance coefficient (U-Value).
VisibleLightTransmittance	BIM Forum	Fraction of visible light that passes through shading system at normal incidence.
WaterTightnessRating	PSet_DoorCommon (IFC4)	
WindLoadRating	BIM Forum PSet_DoorCommon (IFC4)	Wind load resistance rating for object.

WindbourneDebrisResistance	BIM Forum	
Scheduling data		
DeliverBy	NATSPEC BIM	
FabricationTime	NATSPEC BIM	
InstallationSequence	NATSPEC BIM	
InstallationTime	NATSPEC BIM	
LeadTime	NATSPEC BIM	
Spatial and location data		
FloorID	NATSPEC BIM	
GISTag	NATSPEC BIM	
GPSTag	NATSPEC BIM	
SpaceID	NATSPEC BIM	
Specification data		
BulletResistantGlazingClassification	BIM Forum	
CoatingFrame	BIM Forum	
CoatingPanel	BIM Forum	
Color	COBie_ElementTypeCOBie_Specification	
Finish	COBie_ElementTypeCOBie_Specification NATSPEC SpecNATSPEC BIM	Specification of surface finish.
FinishedSizeBottomRails	NATSPEC Spec	
FinishedSizeIntermediateRails	NATSPEC Spec	

FinishedSizeMuntins	NATSPEC Spec	
FinishedSizeTopRailsStiles	NATSPEC Spec	
FrameMaterial	NATSPEC BIM	
FrameStyle	NATSPEC BIM	
FrameThickness	NATSPEC BIM	
FrameWidth	NATSPEC BIM	
GlazingAreaFraction	PSet_DoorCommon (IFC4) PSet_DoorCommon (IFC2x3)	Fraction of glazing area relative to total area of object. Used if glazing area not given separately for all panels within object.
HardwareSet	BIM ForumNATSPEC BIM	
HasDrive	PSet_DoorCommon (IFC4)	<b>Complete value with:</b> TRUE or FALSE (IfcBoolean)
Hinges	NATSPEC BIMNATSPEC Spec	
IsExternal	PSet_DoorCommon (IFC4) PSet_DoorCommon (IFC2x3)	<b>Complete value with:</b> TRUE or FALSE (IfcBoolean)
JoineryDoorAdhesive	NATSPEC Spec	
JoineryDoorPanelMaterial	NATSPEC Spec	
JoineryDoorTimberGrade	NATSPEC Spec	
JoineryDoorTimberSpecies	NATSPEC Spec	
JoineryDoorType	NATSPEC Spec	
LockLatchDurability	NATSPEC Spec	
LockLatchKeyingSecurity	NATSPEC Spec	

LockLatchPhysicalSecurity	NATSPEC Spec	
Material	NATSPEC BIMCOBie_ElementType COBie_Specification	
MaterialFrame	BIM Forum	
MaterialPanel	BIM Forum	
MechanicalLoadRating	PSet_DoorCommon (IFC4)	
MullionPosition	NATSPEC BIM	
OpeningDirection	NATSPEC BIM	
RadiationProtection	BIM Forum	
RadioFrequencyInterferenceProtection	BIM Forum	
RoughOpening	NATSPEC BIM	
SecurityRating	PSet_DoorCommon (IFC4) PSet_DoorCommon (IFC2x3)	Index based rating system indicating security level according to the applicable building code.
SecurityScreenFinish	NATSPEC Spec	
SecurityScreenHingeFixing	NATSPEC Spec	
SecurityScreenHingeMaterial	NATSPEC Spec	
SecurityScreenMaterial	NATSPEC Spec	
SelfClosing	PSet_DoorCommon (IFC4) PSet_DoorCommon (IFC2x3)	<b>Complete value with:</b> TRUE or FALSE (IfcBoolean)
ShadingCoefficient	BIM Forum	
SpecificationCode	NATSPEC BIM	

SpecificationSystem	NATSPEC BIM	
SpecificationTitle	NATSPEC BIM	
TotalGlassArea	NATSPEC BIM	
TransomIncluded	NATSPEC BIM	
TrimIncluded	NATSPEC BIM	
TrimMaterialInside	NATSPEC BIM	
TrimMaterialOutside	NATSPEC BIM	
WeatherBarType	NATSPEC Spec	
Sustainability data		
CarbonFootprint	NATSPEC BIM	
ItemIsNew	NATSPEC BIM	
ItemIsPartiallyRecycled	NATSPEC BIM	
ItemIsRecycled	NATSPEC BIM	
PostConsumerRecycledContent	NATSPEC BIM	
PostIndustrialRecycledContent	NATSPEC BIM	
PreConsumerRecycledContent	NATSPEC BIM	
RecycledContent	NATSPEC BIM	