

Shutter

A shading device is a purpose built device to protect from sunlight, natural light, or to screen them from view. Shading devices can form part of the facade or can be mounted inside the building, they can be fixed or operable.

A shutter is a mechanical shading device that limits the passage of light. Often used as a a solid or louvered movable cover for a window.

IFC 2x3 note

For IFC2x3 use the IfcObjectType of IfcBuildingElementProxy and the PredefinedType enumerator of USERDEFINED.

IfcElementType	IfcShadingDevice	=IfcExportAs
IfcPredefinedType	SHUTTER	=IfcExportType
Suggested Filename:	Shading_Shutter	
Suggested LOD (Design Model)	300	
Suggested Primary Discipline	Architectural	

Source

Property Categories

Classification

COBie	Admin data	Masterformat	10 71 13 : Exterior Sun Control Devices
IFC 2x3	Code compliance data		12 23 00 : Interior Shutters
IFC4 Add2	Construction logistics data		06 49 19 : Exterior Wood Shutters
NATSPEC BIM	Cost data	NatspecWorksection	0457 External screens
NATSPEC Spec	Facilities management data		0574 Window coverings
	Geometric data	Omniclass Table 21 Elements	21-02 20 80 30 : Exterior Opening Protection Devices
	Manufacturer data		
	Performance data	Omniclass Table 22 Work Results	22-06 49 19 : Exterior Wood Shutters
	Scheduling data		22-10 71 13 : Exterior Sun Control Devices
	Spatial and location data		22-12 23 00 : Interior Shutters
	Specification data	Omniclass Table 23 Products	23-17 21 11 13 : Exterior Shutters
	Sustainability data		23-17 21 13 15 : Window Interior Shutters
		Uniclass Elements	EF_40_20 : Fittings

Uniclass Products	Pr_30_59_07_96 : Wood shutters
Uniclass Systems	Ss_25_50_80 : Shutter systems
Unifomat	B2080.30 : Exterior Opening Protection Devices

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.
ObjectType	IfcBuildingElementProxy (IFC2x3)	Required for PredefinedType of USERDEFINED Complete value with: SHUTTER
Reference	Pset_ShadingDeviceCommon (IFC4)	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		
FireRating	NATSPEC BIM	Fire rating of object. Also known as the FRL (Fire Resistance Level) e.g. 60/60/60.
Construction logistics data		
ConstructionMethod	NATSPEC BIM	
GrossWeight	NATSPEC BIM	
ShippingWeight	NATSPEC BIM	
Status	Pset_ShadingDeviceCommon (IFC4)	Status of the object, predominately used in renovation or retrofitting projects. Complete value with: 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. Complete value with: FIXED, NONFIXED, OTHER, NOTKNOWN or UNSET (PEnum_AssetAccountingType)
AssetInsuranceType	Pset_Asset (IFC4)Pset_Asset (IFC2x3)	Type of insurance rating. Complete value with: PERSONAL, REAL, OTHER, NOTKNOWN or UNSET (PEnum_AssetInsuranceType)
AssetTaxType	Pset_Asset (IFC4)Pset_Asset (IFC2x3)	Type of taxation group. Complete value with: 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 BIMPset_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	Complete value with: '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 BIMCOBie	Expected serviceable life of object.
Features	COBie_ElementTypeCOBie_Specification	Primary features or important characteristics of the product.
Grade	COBie_ElementTypeCOBie_Specification	Standard grading(s) to which the product corresponds.

InstallationDate	NATSPEC BIMCOBie_Component	Format: YYYY-MM-DD.
IsExtendedWarranty	Pset_Warranty (IFC4) Pset_Warranty (IFC2x3)	Complete value with: 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_ElementTypeCOBie_Specification	Characteristic shape of the object. e.g. Square.
SustainabilityPerformance	COBie_ElementTypeCOBie_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 BIM Pset_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 BIM COBie_Component Pset_Warranty (IFC4) Pset_Warranty (IFC2x3)	Format: YYYY-MM-DD.
Geometric data		
Area	NATSPEC BIM	
Height	NATSPEC BIM	
Length	NATSPEC BIM	
NominalHeight	COBie_ElementType COBie_Specification	Typically the vertical characteristic dimension of the object.
NominalLength	COBie_ElementType COBie_Specification	Typically the primary or larger of the two perpendicular horizontal dimensions of the object.
NominalWidth	COBie_ElementType COBie_Specification	Typically the secondary or smaller of the two perpendicular horizontal dimensions of the object.
Size	NATSPEC BIM COBie_ElementType COBie_Specification NATSPEC Spec	
Width	NATSPEC BIM	
Manufacturer data		
Accessories	NATSPEC BIM	Details of available accessories.
ArticleNumber	Pset_ManufacturerTypeInformation (IFC4) Pset_ManufacturerTypeInformation (IFC2x3)	Reference applied to product, according to scheme for article number definition defined by manufacturer. Often used as purchasing number.
		Defines where assembly is to take place.

AssemblyPlace	NATSPEC BIM Pset_ManufacturerTypeInformation (IFC4)	Complete value with: 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	
	Pset_Warranty (IFC4) Pset_Warranty	Organization that should be contacted for action under the terms

PointOfContact	(IFC2x3)	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		
SolarReflectance	Pset_ShadingDeviceCommon (IFC4)	(Rsol): The ratio of incident solar radiation that is reflected by shading system (also named e).
SolarTransmittance	Pset_ShadingDeviceCommon (IFC4)	(Tsol): The ratio of incident solar radiation that directly passes through shading system (also named e).
ThermalTransmittance	Pset_ShadingDeviceCommon (IFC4)	Thermal transmittance coefficient (U-Value).
VisibleLightReflectance	Pset_ShadingDeviceCommon (IFC4)	Fraction of visible light reflected by glazing at normal incidence.
VisibleLightTransmittance	Pset_ShadingDeviceCommon (IFC4)	Fraction of visible light that passes through shading system at normal incidence.
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		
Color	COBie_ElementTypeCOBie_Specification	
ExteriorFinish	NATSPEC BIM	
Finish	COBie_ElementTypeCOBie_Specification	Specification of surface finish.
FixingMethod	NATSPEC Spec	
FrameMaterial	NATSPEC Spec	
InteriorFinish	NATSPEC BIM	
IsExternal	Pset_ShadingDeviceCommon (IFC4)	Complete value with: TRUE or FALSE (IfcBoolean)
Material	COBie_ElementTypeCOBie_Specification	
MechanicalOperated	Pset_ShadingDeviceCommon (IFC4) NATSPEC Spec	Complete value with: TRUE or FALSE (IfcBoolean)
Roughness	Pset_ShadingDeviceCommon (IFC4)	Measure of vertical deviations of surface.
ShadingDeviceType	Pset_ShadingDeviceCommon (IFC4)	Complete value with: FIXED, MOVABLE, OVERHANG, SIDEFIN, OTHER, NOTKNOWN or UNSET

		(PEnum_ElementShading)
SlatMaterial	NATSPEC Spec	
SpecificationCode	NATSPEC BIM	
SpecificationSystem	NATSPEC BIM	
SpecificationTitle	NATSPEC BIM	
SurfaceColor	Pset_ShadingDeviceCommon (IFC4)	
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	