

Sloped skylight

A window is predominately used to provide natural light and fresh air. It includes constructions with swinging, pivoting, sliding, or revolving panels and fixed panels. A window consists of a lining and one or several panels.

A sloped skylight is a window within a sloped building element, usually a roof.

IFC 2x3 note

For IFC2x3 there are no PredefinedType enumerators for a window and a sloped skylight is simply treated as a window. Do not designate a PredefinedType.

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| IfcElementType | IfcWindow | =IfcExportAs |
| IfcPredefinedType | SKYLIGHT | =IfcExportType |
| Suggested Filename: | Skylight_Sloped | |
| Suggested LOD (Design Model) | 300 | |
| Suggested Primary Discipline | Architectural | |

Source

Property Categories

Classification

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|--------------|-----------------------------|---------------------------------|---|
| BIM Forum | Admin data | Masterformat | 08 60 00 : Roof Windows and Skylights |
| COBie | Code compliance data | NatspecWorksection | 0451 Windows and glazed doors |
| IFC 2x3 | Construction logistics data | Omniclass Table 21 Elements | 21-02 30 60 10 : Roof Windows and Skylights |
| IFC4 Add2 | Cost data | Omniclass Table 22 Work Results | 22-08 60 00 : Roof Windows and Skylights |
| NATSPEC BIM | Facilities management data | Omniclass Table 23 Products | 23-17 13 23 : Roof Windows 23-17 17 00 : Skylights |
| NATSPEC Spec | Geometric data | Uniclass Elements | EF_25_30 : Doors and windows |
| | Manufacturer data | Uniclass Products | Pr_30_59_72 : Rooflights |
| | Performance data | Uniclass Systems | Ss_30_30_72 : Rooflight and roof window systems |
| | Scheduling data | Uniformat | B3060.10 : Roof Windows and Skylights |
| | Spatial and location data | | |
| | Specification data | | |
| | Sustainability data | | |

| Property | Source | Description |
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| 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_WindowCommon (IFC4) PSet_WindowCommon (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_WindowCommon (IFC4) | Complete value with: TRUE or FALSE (IfcBoolean) |
| FireRating | NATSPEC BIM PSet_WindowCommon (IFC4) NATSPEC Spec PSet_WindowCommon (IFC2x3) | Fire rating of object. Also known as the FRL (Fire Resistance Level) e.g. 60/60/60. |
| SmokeStop | PSet_WindowCommon (IFC4) PSet_WindowCommon (IFC2x3) | Is object is designed to provide a smoke stop. Complete value with: TRUE or FALSE (IfcBoolean) |
| Construction logistics data | | |

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| Construction | BIM Forum | |
| ConstructionMethod | NATSPEC BIM | |
| GrossWeight | NATSPEC BIM | |
| ShippingWeight | NATSPEC BIM | |
| Status | PSet_WindowCommon (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 | |

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| 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 | 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. |

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| 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. |
| GlassCondition | BIM Forum | |
| 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 BIMPset_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. |

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| 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 Qto_WindowBaseQuantities (IFC4) | |
| GlassThickness | NATSPEC BIM NATSPEC Spec | |
| Height | NATSPEC BIM Qto_WindowBaseQuantities (IFC4) | |
| Length | NATSPEC BIM | |
| MullionThickness | NATSPEC BIM | |
| MullionWidth | NATSPEC BIM | |
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| 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_WindowBaseQuantities (IFC4) | |
| Size | NATSPEC BIMCOBie_ElementType COBie_SpecificationNATSPEC Spec | |
| Slope | NATSPEC BIM | Slope relative to the horizontal. |
| Width | NATSPEC BIM Qto_WindowBaseQuantities (IFC4) | |
| Manufacturer data | | |
| Accessories | NATSPEC BIM | Details of available accessories. |
| ArticleNumber | Pset_ManufacturerTypeInfo (IFC4) Pset_ManufacturerTypeInfo (IFC2x3) | Reference applied to product, according to scheme for article number definition defined by manufacturer. Often used as purchasing number. |
| AssemblyPlace | NATSPEC BIM Pset_ManufacturerTypeInfo (IFC4) | Defines where assembly is to take place. 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. |

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| 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. |
| 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 | | |
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| AcousticRating | BIM ForumNATSPEC BIM PSet_WindowCommon (IFC4)NATSPEC SpecPSet_WindowCommon (IFC2x3) | Acoustic rating for the object. Indicates the sound transmission resistance of the object by an index ratio. |
| BlastResistance | BIM Forum | |
| CondensationResistance | BIM Forum | |
| ForcedEntryResistance | BIM Forum | |
| Infiltration | BIM ForumNATSPEC BIM PSet_WindowCommon (IFC4) PSet_WindowCommon (IFC2x3) | Infiltration flowrate. |
| PowderCoatAluminiumPerformance | NATSPEC Spec | |
| RValue | BIM ForumNATSPEC BIM | |
| SolarHeatGainCoefficient | BIM ForumNATSPEC Spec | |
| ThermalTransmittance | NATSPEC BIMPSet_WindowCommon (IFC4)NATSPEC Spec PSet_WindowCommon (IFC2x3) | Thermal transmittance coefficient (U-Value). |
| VisibleLightReflectance | NATSPEC Spec | Fraction of visible light reflected by glazing at normal incidence. |
| VisibleLightTransmittance | BIM ForumNATSPEC Spec | Fraction of visible light that passes through shading system at normal incidence. |
| WERSEnergyRatingCooling | NATSPEC Spec | |
| WERSEnergyRatingHeating | NATSPEC Spec | |
| WaterPenetrationResistance | BIM ForumNATSPEC Spec | |
| WaterTightnessRating | PSet_WindowCommon (IFC4) | |
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| WindLoadRating | BIM ForumPSet_WindowCommon (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 | | |
| AluminiumFrameColour | NATSPEC Spec | |
| BulletResistantGlazingClassification | BIM ForumNATSPEC Spec | |
| BushfireProtection | NATSPEC Spec | |
| Color | COBie_ElementTypeCOBie_Specification | |
| ExteriorFinish | NATSPEC BIM | |
| Finish | BIM ForumCOBie_ElementType COBie_Specification | Specification of surface finish. |

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| FrameMaterial | NATSPEC BIM NATSPEC Spec | |
| FrameStyle | NATSPEC BIM | |
| FrameThickness | NATSPEC BIM | |
| FrameWidth | NATSPEC BIM | |
| Function | BIM Forum | |
| GlassBodyColour | NATSPEC Spec | |
| GlassCoatings | BIM Forum | |
| GlassConfiguration | BIM Forum | |
| GlassInterlayerColour | NATSPEC Spec | |
| GlassMaterial | BIM Forum | |
| GlassSurfaceCoatingColour | NATSPEC Spec | |
| GlassSurfaceCoatingFunction | NATSPEC Spec | |
| GlassSurfacePattern | NATSPEC Spec | |
| GlassType | NATSPEC Spec | |
| GlassUse | BIM Forum | |
| GlazingAreaFraction | PSet_WindowCommon (IFC4) PSet_WindowCommon (IFC2x3) | Fraction of glazing area relative to total area of object. Used if glazing area not given separately for all panels within object. |
| GlazingMethod | BIM Forum | |
| GlazingOpacity | NATSPEC Spec | |
| HardwareSet | NATSPEC BIM | |
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| HasDrive | PSet_WindowCommon (IFC4) | Complete value with: TRUE or FALSE (IfcBoolean) |
| HasSillExternal | PSet_WindowCommon (IFC4) | Complete value with: TRUE or FALSE (IfcBoolean) |
| HasSillInternal | PSet_WindowCommon (IFC4) | Complete value with: TRUE or FALSE (IfcBoolean) |
| Hinges | NATSPEC BIMNATSPEC Spec | |
| InteriorFinish | NATSPEC BIM | |
| IsExternal | PSet_WindowCommon (IFC4) PSet_WindowCommon (IFC2x3) | Complete value with: TRUE or FALSE (IfcBoolean) |
| LockLatchDurability | NATSPEC Spec | |
| LockLatchKeyingSecurity | NATSPEC Spec | |
| LockLatchPhysicalSecurity | NATSPEC Spec | |
| Material | BIM ForumNATSPEC BIM COBie_ElementTypeCOBie_Specification | |
| MechanicalLoadRating | PSet_WindowCommon (IFC4) | |
| MullionPosition | NATSPEC BIM | |
| NumberOfSashes | NATSPEC BIM | |
| OpeningDirection | NATSPEC BIM | |
| PowderCoatAluminiumCategory | NATSPEC Spec | |
| PowderCoatAluminiumGlossLevel | NATSPEC Spec | |
| RadiationProtection | BIM Forum | |
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| RadioFrequencyInterferenceProtection | BIM Forum | |
| RoughOpening | NATSPEC BIM | |
| SecurityRating | PSet_WindowCommon (IFC4) PSet_WindowCommon (IFC2x3) | Index based rating system indicating security level according to the applicable building code. |
| ShadingCoefficient | BIM Forum | |
| SpecificationCode | NATSPEC BIM | |
| SpecificationSystem | NATSPEC BIM | |
| SpecificationTitle | NATSPEC BIM | |
| Stays | NATSPEC Spec | |
| TotalGlassArea | NATSPEC BIM | |
| TransomIncluded | NATSPEC BIM | |
| TrimIncluded | NATSPEC BIM | |
| TrimMaterialInside | NATSPEC BIM | |
| TrimMaterialOutside | NATSPEC BIM | |
| Sustainability data | | |
| CarbonFootprint | NATSPEC BIM | |
| ItemIsNew | NATSPEC BIM | |
| ItemIsPartiallyRecycled | NATSPEC BIM | |
| ItemIsRecycled | NATSPEC BIM | |
| PostConsumerRecycledContent | NATSPEC BIM | |
| PostIndustrialRecycledContent | NATSPEC BIM | |

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| PreConsumerRecycledContent | NATSPEC BIM | |
| RecycledContent | NATSPEC BIM | |