

Cladding

A covering is an element which covers some part of another element and is fully dependent on that other element.

Cladding is the material used to cover the external vertical sides (walls) of a building.

IfcElementType	IfcCovering	=IfcExportAs
IfcPredefinedType	CLADDING	=IfcExportType
Suggested Filename:	Cladding	
Suggested LOD (Design Model)	300	
Suggested Primary Discipline	Architectural	

Source

Property Categories

Classification

BIM Forum

Admin data

Masterformat

07 42 00 : Wall Panels

COBie

Code compliance data

07 44 00 : Faced Panels

IFC 2x3

Construction logistics data

07 46 00 : Siding

IFC4 Add2

Cost data

07 64 00 : Sheet Metal Wall Cladding

NATSPEC BIM

Facilities management data

04 42 00 : Exterior Stone Cladding

NATSPEC Spec

Geometric data

NatspecWorksection

0431 Cladding – combined

Manufacturer data

Omniclass Table 21
Elements

21-02 20 10 10 : Exterior Wall Veneer

Performance data

Omniclass Table 22
Work Results

22-04 42 00 : Exterior Stone Cladding

Scheduling data

22-07 42 00 : Wall Panels

Spatial and location data

22-07 44 00 : Faced Panels

Specification data

22-07 46 00 : Siding

Sustainability data

22-07 64 00 : Sheet Metal Wall Cladding

Omniclass Table 23
Products

23-13 33 19 : Precast Concrete Facade

23-13 37 00 : Multi-Function Exterior Coverings,
Claddings, Linings

Uniclass Elements	EF_25_10 : Walls
Uniclass Products	Pr_25_71 : Rigid board, panel and sheet products Pr_25_93_72 : Roofing and cladding units
Uniclass Systems	Ss_25_20 : Wall cladding systems
Unifomat	B2010.10 : Exterior Wall Veneer

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_CoveringCommon (IFC4) PSet_CoveringCommon (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		
FireGroupNumber	NATSPEC Spec	As per NCC in Australia.
FireRating	BIM ForumNATSPEC BIM PSet_CoveringCommon (IFC4) PSet_CoveringCommon (IFC2x3)	Fire rating of object. Also known as the FRL (Fire Resistance Level) e.g. 60/60/60.
FlammabilityRating	PSet_CoveringCommon (IFC4) PSet_CoveringCommon (IFC2x3)	Flammability Rating of object. Also known as Flammability index.
SmokeDevelopedIndex	NATSPEC Spec	As per NCC in Australia.
SurfaceSpreadOfFlame	PSet_CoveringCommon (IFC4)NATSPEC SpecPSet_CoveringCommon (IFC2x3)	Indication of how flames spread around surface, according to the applicable building code.
Construction logistics data		
ConstructionMethod	NATSPEC BIM	

GrossWeight	NATSPEC BIM	
ShippingWeight	NATSPEC BIM	
Status	PSet_CoveringCommon (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 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.
DurationUnit	COBie	Units used to record expected life duration. Typically 'year'.
	Pset_Warranty (IFC4)Pset_Warranty	Items, conditions or actions that may be excluded from the

Exclusions	(IFC2x3)	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		
CompositePanelSkinThickness	NATSPEC Spec	
GrossArea	Qto_CoveringBaseQuantities (IFC4) NATSPEC BIM	
Height	NATSPEC BIM	
Length	NATSPEC BIM	
NetArea	Qto_CoveringBaseQuantities (IFC4)	Takes all openings into account.
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.

SheetMetalSeamSpacing	NATSPEC Spec	
SheetMetalThickness	NATSPEC Spec	
Size	COBie_ElementTypeCOBie_Specification	
Thickness	NATSPEC SpecNATSPEC BIM	
TotalThickness	PSet_CoveringCommon (IFC2x3)	
VerticalSupportSpacing	NATSPEC Spec	
Width	NATSPEC BIM Qto_CoveringBaseQuantities (IFC4)	
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.
AssemblyPlace	NATSPEC BIM Pset_ManufacturerTypeInformation (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.
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	NATSPEC BIM PSet_CoveringCommon (IFC4) PSet_CoveringCommon (IFC2x3)	Acoustic rating for the object. Indicates the sound transmission resistance of the object by an index ratio.
CondensationResistance	BIM Forum	
Deflection	NATSPEC BIM	
HardboardPlankBendingStrength	NATSPEC Spec	
ImpactResistance	BIM Forum	
Infiltration	BIM Forum NATSPEC BIM	Infiltration flowrate.
PlasticSheetIgnitability	NATSPEC Spec	
PlasticSheetImpactResistance	NATSPEC Spec	
RValue	BIM Forum NATSPEC BIM	
RadiationResistance	NATSPEC BIM	
ThermalTransmittance	NATSPEC BIM PSet_CoveringCommon (IFC4)	Thermal transmittance coefficient (U-Value).
UVResistance	BIM Forum	
WaterPenetrationResistance	BIM Forum	
WindLoadCapacity	NATSPEC BIM	
WindLoadCapacityDrag	BIM Forum	
WindLoadCapacityPressure	BIM Forum	
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		
Color	COBie_ElementTypeCOBie_Specification NATSPEC Spec	
Combustible	PSet_CoveringCommon (IFC4) PSet_CoveringCommon (IFC2x3)	Is object made from combustible material. Complete value with: TRUE or FALSE (IfcBoolean)
CompositePanelCoreMaterial	NATSPEC Spec	
CompositePanelSkinMaterial	NATSPEC Spec	
EIFSBaseCoat	NATSPEC Spec	
EIFSCoreMaterial	NATSPEC Spec	
ExposureSeverityCategory	NATSPEC Spec	
ExteriorFinish	NATSPEC BIM	

Fasteners	NATSPEC Spec	
Finish	COBie_ElementTypeCOBie_Specification PSet_CoveringCommon (IFC4)NATSPEC SpecPSet_CoveringCommon (IFC2x3)	Specification of surface finish.
FixingSystem	NATSPEC Spec	
FragilityRating	PSet_CoveringCommon (IFC4) PSet_CoveringCommon (IFC2x3)	
HorizontalSupportMember	NATSPEC Spec	
HorizontalSupportSpacing	NATSPEC Spec	
InteriorFinish	NATSPEC BIM	
IsExternal	PSet_CoveringCommon (IFC4)	Complete value with: TRUE or FALSE (IfcBoolean)
Material	NATSPEC BIMCOBie_ElementType COBie_Specification PSet_CoveringCommon (IFC2x3)	
MaterialSkin	BIM Forum	
MaterialSubstrate	BIM Forum	
PanelEdgeTreatment	NATSPEC Spec	
PlankTexture	NATSPEC Spec	
PlasticSheetGrade	NATSPEC Spec	
PlasticSheetTranslucency	NATSPEC Spec	
PlasticSheetType	NATSPEC Spec	
PlywoodSheetCoating	NATSPEC Spec	

PlywoodSheetVeneerSpecies	NATSPEC Spec	
SheetMetalMaterialType	NATSPEC Spec	
SheetMetalProfile	NATSPEC Spec	
SpecificationCode	NATSPEC BIM	
SpecificationSystem	NATSPEC BIM	
SpecificationTitle	NATSPEC BIM	
SupportMemberMaterial	NATSPEC Spec	
TimberWeatherboardGrade	NATSPEC Spec	
TimberWeatherboardPreservative	NATSPEC Spec	
TimberWeatherboardProfile	NATSPEC Spec	
VapourTransmission	NATSPEC BIM	
VerticalSupportMember	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	

