Model Content Plan Information Exchange No. Project Phase Model Receiver Due Date	se 2 –	Corrigendu	m No. 1	JTC C	pen inn		all 2020 - Dig Iodel Conten			m Sample	documer	nt				
File Format/s Software and Version Project Phase					Initiation / Concept Design			Preliminary Design			Detailed Design			Tender Documentation		
Casework / Joinery Ceilings	Discipline Revit Category Architecture Architecture Ceilings	Standard UoM (reference back to SISV) Model Quality Checks OA schedules (multicategory, filtered): One for ceiling types, areas tallied per ceiling type; Another for wall types used for bulkheads (aka Vertical ceiling type); Ceiling areas also tallied per type, per level and per buildir		Model/Geometry MEA'ship Not required to be modelled Architect Not Modelled Not Applicable	Penetrations Not Applicable	Data Overall dimensions Type Comments Description Not Applicable	Model/Geometry MEA'ship Not required to be modelled Architect Not Modelled Not Applicable	Penetrations Not Applicable Not Applicable	Data Overall dimensions Type Comments Description Not Applicable	Modelled using basic geometry; linework to indicate Ar detail Basic diversification by type Bulkheads not modelled as part of item - modelled as ceillnowall combo.	MEA'ship Penetrations	Data Overall dimensions Type Comments Description Type Comments Description Material (visible surface, e.g. plasterboard) Fire Rating	Model/Geometry MeA'ship Modelled using basic geometry; linework to indicate Architect detail Basic diversification by type Bulkheads not modelled as part of item - modelled as cailinoi/wall.combo. Horizontal ceilings to be modelled using 0-degree slopes, perimeter walls attached to ceiling in order to terminate 'full height' wall finishes. Insulation to be included within assembly/type	Penetrations Not Modelled Riser shafts, stainwells	Date Type Comments Description Manufacturer/ Model (where applicable) Type Comments Description Material (visible surface, e.g. plasterboard) Fire Rating	Model/Geometry Modelled using basic geometry; linework to indicate Contractor detail Basic diversification by type Bulkheads not modelled as part of item - modelled as ceilino/wall.combo. Horizontal ceilings to be modelled using 0-degree slopes, perimeter walls attached to ceiling in order to terminate 'full height' wall finishes. Insulation to be included within assembly/type
Doors	Architecture Doors	Colour filter to be created and applied to 3D view to highlight ceiling wall types (bulkheads) together with ceilings. Filter created and applied to RCP to highlight where there a ceilings - to be checked by Model Element Author. Any significant gap between quantities may be down to vertically a colour and a change of a colour families vs. those are specific (specified); Standardised Door schedule (with agreed fields, sorting and	that all are no rtical that To be taken as door sets - inclusive of frame and hardware	Generic door families used; no handing/mirroring - Architect in favour of instance-based parameter	Not applicable	(int vs. ext), Door Type (Size or construction), Overall Width, Overall Height	Generic door families used prior to Planning Architect submission; no handing/mirroring - in favour of instance-based parameter	Not applicable	(int vs. ext) Overall Width, Overall Height Description (e.g. solid core vs. hollow core vs. steel	Diversification by type and schedule No mirroring; handing is as per schedule Hosted in Arch model, in correct wall layer/skin	urchitect Not applicable	U-Value Acoustic Rating Height (AFFL) Type (indicates function, room type/function, variation & handing/configuration (L,R,CS,D) - see	Types as per templates Insulation distinguished graphically (in plan view) Modelled using sketch lines or pick walls (no automatic ceilings) Diversification by type and schedule No mirroring; handing is as per schedule Hosted in Arch model, in correct wall layer/skin	Not applicable	U-Value Acoustic Rating Height (AFFL) Type (indicates door code & handing) Mark & Type Mark	Types as per templates Insulation distinguished graphically (in plan view) Modelled using sketch lines or pick walls (no automatic ceilings) Modular ceilings to have supporting bracketry modelled Access points (for maintenance) to be modelled Diversification by type and schedule No mirroring; handing is as per schedule Hosted in Arch model, in correct wall layer/skin
		tallies) used; Standard Door schedule completed; Standard Door schedule completed; Fire compartmentalisation floor plans showing fire-rated doc and opening/swing directions - with matching graphic filters applied to walls as well; Report highlighting any illegitimately-mirrored doors.							etc.) Overall Leaf Width, Leaf Height	(e.g. masonry), host wall copy/monitored to Struc Engineer's model (openings persistent). Opening direction to comply with building code Set to correct side of host wall Door numbering to reflect location by level/room		typ. Door Schedule) Level, Location (manual entry, but 'To Room' preferred) Fire Rating (type parameter) Leaf Count, Size(s) (Height, Width & Thickness), Material, Finish Hardware Set ('Ney schedule going forward) Frame Type (refers to door details), (currently indicates Frame Material), Finish Accessories (closers (is parameter), grilles, viewin panels via Remarks) Smoke seal currently only addressed within	Viewing Panels to be modelled		Level, Location (To Room/From Room?) Fire Rating Leaf Count, Size(s) (Height, Width & Thickness), Leaf Material, Finish Hardware Set Frame Type, Material, Finish Accessories (closers, grilles, viewing panels) Acoustic Rating (if applicable)	(e.g. masonry), host wall C/M to Struc Engineer's model (openings persistent). Opening direction to building code Set to correct side of wall Door numbering to reflect location by level/room Viewing Panels to be modelled
Floors	Architecture, Structure Floors	3D view per level, showing floors isolated and shaded with obx extents applied per floor; Floor schedule created with overall quantities per type; Temporarily implement floor edge line override to highlight extents/plate; Use crop region to 'roll through' building sections laterally, n limited to grid line locations. Colour filter to be applied to highlight any penetrations in an structural elements.	not	Basic diversification by material and construction Architect method One nominal thickness per floor plate	Elevator openings and stainwell op modelled.	nerings Thickness (nom) Material Volume Area	Basic diversification by material and construction Architect method One nominal thickness per floor plate	Elevator openings and stairwell op modelled. Services Risers modelled (as purp Generic Model objects with integra to cut floors which need to be 'activ manually (will only cut system fami Shower recesses not modelled. Pipe/duct penetrations not modelle	Thickness (nom) sse-built Material voids Volume atted Area ies).	Diversification by type and thickness Ar Floors with varying thickness to be identified by Type Comments	manually (will only cut system fa	Thickness (nom), Volume, Area pose-built Material 'al voids Description 'ivated' Type Comments (Slab Edge, Slab, Strip Footing, nillies). It was a strip Footing, Ramp, Screed, Hob, Landing, Upstand etc.) Type Name to indicate RC/PT and Thickness elled for	Sloped elements placed with exact intended slope, in separate model file and may be derived from vertice levels using Revit, will empl Scupper drains to be modelled. Scupper drains to be modelled. workflows* (copied a monitored grids, level floors, columns & stru	loy Services Risers modelled (as purpose-tative Generic Model objects with integral voix and to cut floors which need to be 'activated lus, manually (will only cut system families). uc Changes in level to be modelled Piperduct penetrations to be modelled for the control of the control of the cut of the control of the cut of the	Thickness, Volume, Area built Material ds Typical reinforcement d' Strength (concrete only)	Modelled with exact intended thickness Contractor Sloped elements placed with exact intended slope, and may be derived from vertice levels Construction joints and expansions joints to be modelled using Parts. Scupper drains to be modelled.
Furniture	Architecture Architecture Furniture, Furniture syste	Need to clash-check floors against floors to verify volumes a being correctly calculated. 'Join geometry' protocol to be	Primarily apply to walls, floors, ramps, exposed columns, stairs, ceilings, soffits Lounges, tables, chairs, beds and bedside tables etc. required purely for		Not Applicable	None	Not modelled Not Applicable 2.5D components only, modelled where required to	Not Applicable	None	2.5D components only, modelled where required to Ar	architect Not Applicable architect Not Applicable	Type Comments Description Material Thickness Material Covering statement regarding application of finishes per area type Type Comments	Architect Modelled where required to approximate overall	Not Applicable Not Applicable	Type Comments Description Material Thickness Covering statement regarding application of finishes per area type Co-efficient of firiction (applicable to trafficable	Contractor Modelled where required to approximate overall Contractor
Generic Models	A rchitecture		visualisation/spatial planning purposes. Need to clarify what commonly comprises this Revit Category Start with Revit Subcategory list				approximate overall dimensions. Typically not included within contract - used for visualisation purposes only.			approximate overall dimensions. Typically not included within contract - used for visualisation purposes only.		Description	dimensions. Typically not included within contract - used for visualisation purposes only. High-res versions of furniture to be modelled outside of project model by others, used for marketing and visualisation. Any items designated as 'Not in Contract' to be shown as such - dashed lines; spatial allocation		Description	dimensions. Typically not included within contract - used for visualisation purposes only. High-res versions of furniture to be modelled outside of project model by others, used for marketing and visualisation. Any items designated as 'Not in Contract' to be shown as such - dashed lines; spatial allocation
Openings Wall Openings Face-based Openings	Architecture Architecture Architecture		Given that Penetrations through all other object types have been addressed, this section shouldn't be necessary													
Shaft Openings/Risers Setdowns/Recesses Plumbing Fixtures	Architecture Architecture Architecture, M&E Plumbing Fixtures	Schedule tallying each fixture type per level and per building	19	Not modelled Architect	Not Applicable	None	Modelled using basic geometry, based on overall Architect	Not Applicable	None	Modelled using basic geometry, based on overall	rchitect Not Applicable	Type Comments	Modelled using basic geometry, based on overall Architect	Not Applicable	Type Comments	Modelled to reflect manufacturer/model, based on Contractor
J							dimensions			dimensions Connections to be made to Fixtures once piping extends that far within the model		Description	dimensions Connections to be made to Fixtures once piping extends that far within the model		Description Manufacturer / Model Material	overall dimensions Connections to be made to Fixtures once piping extends that far within the model
Railings / Balustrade Roofs	Architecture Railings Architecture, Structure Varies		Revit, Solid base railing elements to be modelled as wall instance, with balustrade iils and applied. (Blockwork, Insitu or Precast - see Walls shopping file) ine. Elements start as composite objects inclusive of structure, but should develop into a number of discrete constituent elements as the design progresses (e.g. steel framed elements)	placeholder to be substituted later as design progresses. Basic diversification by material and construction Architect	Not Applicable Not Applicable	Length Railing Height Thickness (nom) Volume Area Material	Generic balustrade type used (if at all), as Architect placeholder to be substituted later as design progresses. Basic diversification by material and construction method One nominal thickness per floor plate	Not Applicable Not Applicable	Length Railing Height Description Thickness (nom) Volume Area Material	Heights and design to be code-compliant Diversification by material and construction St method. Structural members to be modelled as per Ar	tructural elements; Pipe/duct penetrations not mode	Thickness Volume (for solid structure) Perimeter	method. structural elements; Structural members to be modelled as per Structural Framing. structural elements. Waterproofing membrane to be modelled, where	Pipe/duct penetrations to be modelled for pipes/ducts greater than 50mm diameter	for metal deck) er. Thickness Volume (for solid structure) Perimeter	Modelled to fabrication details Contractor Heights and design to be BCA compliant Diversification by material and construction Contractor method. Structural members to be modelled as per Structural Framing. Waterproofing membrane to be modelled, where
Flat Roofs Pitched Roofs Plinths	Architecture, Structure Floors Architecture, Structure Roofs		Likely trafficable. Modelled as Floor: Structural objects but to be costed as Roofs.	Basic diversification by primary material, construction method and nominal thickness. Structural elements modelled as solid volume, integral with roof type.			Basic diversification by primary material, Architect construction method and nominal thickness. Structural elements modelled as solid volume, integral with roof type.			One floor plate per type per thickness.		Area Material Description (material & construction assembly)	applicable. One floor plate per type per thickness. Scupper drains to be modelled. Anchor points for safety access		Area Material Description (material & construction assembly) LLValue	applicable. One floor plate per type per thickness. Scupper drains to be modelled. Anchor points for safety access
Dog Houses Gondola / BMU	Structure Mechanical Equipment			Not modelled			Not modelled			Anchor points to be modelled at nominal positions St and spacing	struc Engineer	Specified life line/safety restraint Manufacturer / Model / System	Modelled to nominal size Anchor points to be modelled at positions and spacing as per specified system. Load impacts to be factored into structural analysis.	Associated penetrations in roof to be modelled to nominal size	Specified life line/safety restraint Manufacturer / Model / System	Modelled to exact size Anchor points to be modelled at positions and spacing as per specified system.
Signage Site (External Works)	Architecture Generic Models Architecture, Civil, Landscar Varies		Excludes structural elements (see Structural Framing)	Not modelled Not Applicable	Not Applicable	Not Applicable	Not modelled Not Applicable Nominal locations and size modelled Architect	Not Applicable Not Applicable	Not Applicable Material Nominal dimensions RLs (where applicable)	Not modelled No Closely-matching locations Modelled to specified size	lot Applicable Not Applicable Not Applicable	Not Applicable Material Nominal dimensions RLs (where applicable)	Modelled as thin extruded surface. Decal may be Architect applied for visualisation purposes. Closely-matching locations Exact intended size	Not Applicable Not Applicable	Area Description Material Nominal dimensions RLs (where applicable)	Modelled as thin extruded surface. Decal may be Contractor applied for visualisation purposes. Closely-matching locations Contractor Exact intended size
Specialty Equipment	Architecture		Household / whitegoods. All modelling methods and cost-related data to be as per primary equipment.	modelled, they'll be basic 3D models used so as to	Not Applicable	Type Comments Description	Not required to be modelled, but if they are Architect modelled, they libe basic SD models used so as to	Not Applicable	RLs (where applicable) Type Comments Description Type Comments Description	3D models used so as to provide for plan-view spatial relationships and existence in schedules.	vrchitect Not Applicable	Type Comments Description Cross-sectional profile (where applicable) Type Comments Description	3D' models used so as to provide for plan-view Architect spatial relationships and existence in schedules.	Not Applicable	Type Comments Description Cross-sectional profile (where applicable) Type Comments Description	3D' models used so as to provide for plan-view Contractor spatial relationships and existence in schedules.
Stairs	Architecture, Structure Stairs	Construction code compliance built into Stair Type paramete Revit warnings to be checked for any stair-related issues.	ters. Volumes (of concrete, typically), as well as soffit areas etc. for formwork must b	provide for plan-view spatial relationships and existence in schedules. Generic types only. Any items designated as 'Not in Contract' to be shown as such - dashed lines; spatial allocation only.	Not Applicable	Risers Riser Height Tread Depth Stair Height (top to bottom; vertical rise)	provide for plan-view spatial relationships and existence in schedules. Generic types only. Any items designated as 'Not in Contract' to be shown as such - dashed lines; spatial allocation only. Placeholder generic stair type; as either composite Architect assembly or as monolithic stair. Landings integrated.	Not Applicable	Risers Riser Height Tread Depth Stair Height (top to bottom; vertical rise)	Diversification by type, modelled to resemble specified item. Any items designated as 'Not in Contract' to be shown as such - dashed lines; spatial allocation only. Diversification by type, based on design Any configuration. Materials to be assigned to each	dvice from Struc ingineer as to structural	Manufacturer & Model (Preliminary spec) Overall dimensions Description Risers Riser Height Tread Depth Stair Height (top to bottom; vertical rise) Width	Diversification by type, modelled to resemble specified item. Any items designated as 'Not in Contract' to be shown as such - dashed lines; spatial allocation only. Diversification by type, based on design configuration. Materials to be assigned to each stair sub-component. Refer Railings for modelling methodology of Railings. Architect, but will take advice from Struc Engineer as to structuintegrity		Manufacturer & Model (Preliminary spec) Overall dimensions Description Risers Riser Height Tread Depth Stair Height (top to bottom; vertical rise) Width	Diversification by type, modelled to resemble specified item. Any items designated as 'Not in Contract' to be shown as such - dashed lines; spatial allocation not. Diversification by type, based on design Contractor configuration. Materials to be assigned to each stair sub-component. Modelled to the extent of accuracy/precision necessary to support fabrication directly from the model.
Profiles (Hosted)	Architecture			Not modelled Not Applicable	o Not Applicable	Not Applicable	Not modelled Not Applicable	Not Applicable	Not Applicable	Ar	vrchitect Not modelled	Base Level Throat dimension, stringer cross-sectional dimensions, who cours applicable Length Material	Architect	Not modelled	Base Level Throat dimension, stringer cross-sectional dimensions.whoravar.applicable Length Material	Refer Railings for modelling methodology of Railings. Contractor
Walls	Architecture, Structure	documentation views that highlight walls, fade or hide every else, and distinguish wall types by 'wall purpose'.	rarily to Wall purposes include: Core, Apartment, Party, Wet (MR PB) 1-side or 2-sides, yithing Riser/shaft, Corridor ose Internal lining for external walls required to be costed as an internal wall - what	External / Internal, Party, Core, Shaft) Modelled as a single layer with or without material	Windows and Doors only	Base Constraint & Offset, Top Constraint and Offset Thickness, Length, Height	Modelled with layers integrated to nominal overall thickness	Windows and Doors only	Base Constraint & Offset, Top Constraint and Offset Thickness, Length, Height	Wall) St Type Comments to describe arrangement sh	wrchitect; though structural elements hould be modelled in ccordance with Struc	Type Comments Cross-sectional size/orofile De Access Base Constraint & Offset, Top Constraint and Offset	Diversification by key type (Lining, Finished or Raw Struc Engineer for Wall) Type Comments to describe arrangement Architect for all others Modelled with layers integrated to nominal overall	Panels, Nested Curtain Walls, Doors Pipe/duct penetrations to be modelled for	Type Comments Cross-sectional size/orofile Base Constraint & Offset, Top Constraint and	Diversification by key type (Lining, Finished or Raw Contractor Wall) Type Comments to describe arrangement Modelled with layers integrated to nominal overall
		and also (separately) by type, grouped by level and/or buildi schedule exists in 'parent' model). Wall types to be as per predefined collection with agreed na and parametric values. Colour filter to be applied to highlight any penetrations in an	ding (if to do re separate wall or not? aming Suggest we create views in Revit to graphically filter ry Custom shared parameter called '0_ExternalOrInternal' applied to wall instance	Must be oriented correctly (external vs. internal) Location line for External Walls to be Core Face Interior; Internal Walls to be Centerline; Shaft Walls to be Finish Face: Interior Wall profile editing should be avoided.		Area, Volume Type Comments to describe wall's key purpose Description to describe wall's construction assembly (as much as is known, even if only nominal), including Thickness of each layer and	Must be oriented correctly (external vs. internal) Location line for External Walls to be Core Face Interior; Internal Walls to be Centerline; Shaft Walls to be Finish Face: Interior Wall profile editing should be avoided.		Area, Volume Type Comments to describe wall's key purpose Description to describe wall's construction assembly (as much as is known, even if only nominal), including Thickness of each layer and	thickness Er Must be oriented correctly (external vs. internal) Location line for External Walls to be Core Face Interior; Internal Walls to be Centerline; Shaft Walls to be Finish Face: Interior	ccordance with Struc pipes/ducts greater than 100mm within Structural Walls only (no or blockouts required)	Sleeves Area, Volume Type Comments to describe wall purpose (standard list established) Description to indicate material assembly, includir Thickness per Material.	thickness Must be oriented correctly (external vs. internal) Location line for External Walls to be Core Face Interior; Internal Walls to be Centerline; Shaft Walls to be Finish Face: Interior	pipes/ducts greater than 100mm diamel within Structural Walls only (no sleeves blockouts required)	s or Area, Volume Type Comments to describe wall purpose (standard list established) Description to indicate material assembly, including Thickness per Material.	thickness Must be oriented correctly (external vs. internal) Location line for External Walls to be Core Face Interior; Internal Walls to be Centerline; Shaft Walls to be Finish Face: Interior
		structural elements.	to distinguish external from internal walls, which can be used by filters indicate up or this graphically. Values to be either 'EXTERNAL' or 'INTERNAL', and these ultimately 'TRUMP' the s that will likely suggest that ALL walls are internal.			nominal), including Thickness of each layer and Material.	Wall profile editing should be avoided. May run through levels (as opposed to floor-to- floor)		nominal), including Thickness of each layer and Material.	Wall profile editing should be avoided. May run through levels (as opposed to floor-to-floor) Grouping of walls by level for duplication vertically will require original walls to be modelled from base		Thickness per Material. Type Number (diversification by assembly, excluding minor variation) Structural Usage Keynote Fire Rating (instance or type, as appropriate)	Wall profile editing should be avoided. To be vertically segmented according to intended construction methodology (typically floor-to-floor). Grouping of walls by level for duplication vertically will require original walls to be modelled from base		Thickness per Material. Type Number (diversification by assembly, excluding minor variation) Structural Usage Keynote Fire Rating (instance or type, as appropriate)	Wall profile editing should be avoided. May run through levels (c/w Floor-by-floor) Grouping of walls by level for duplication vertically will require original walls to be modelled from base level to a height above base level (not an explicit
Windows (Glazing)	Architecture Windows	Window schedules created per level, per building (even if M values are unresolved). Areas of curtain wall types scheduled which should serve as approximation for fully-glazed areas; acknowledging whethe	as an Should be discussed directly with Cost Planning due to the nuances and	Assemblies to be modelled as Curtain Walls, with basic diversification by construction configuration Diversification of panels by material Panels modelled as Curtain Wall Panels (not	Not Applicable	Curtain Wall Panels to have the following assign Height, Width, Area of unit/panel (mullion area included)	basic diversification by construction configuration	Not Applicable	Curtain Wall Panels to have the following assigned: Height, Width, Area of unit/panel (mullion area not included)	level to a height above base level (not an explicit Assemblies to be modelled as Curtain Walls, with basic diversification by construction configuration Diversification of panels by opening action (awning, sliding etc.).	rchitect Not Applicable	Curtain Wall Panels to have the following assigne Height, Width, Area of unit/panel (mullion area n included)	level to a height above base level (not an explicit d: Diversification by type and schedule Hosted within basic wall or curtain wall (as curtain wall window - requiring reporting parameters for Height and Width)	Not Applicable	Curtain Wall Panels to have the following assigned: Height, Width, Area of unit/panel (mullion area not included)	top constraint to a level above) Diversification by type and schedule Contractor Hosted within basic wall or curtain wall (as curtain wall window - requiring reporting parameters for Height and Width)
		glazing areas include mullions or not. Graphic filters to be applied temporarily for glazing types to highlight and check performance attributes (e.g. acoustic rat fire ratings) similar to how fire compartmentalisation plans a produced for walls and doors.	atings,	Windows) One typical CWP type (fixed glazing) used to model all instances, with the exception of sliding doors to balconies. Curtain Wall Panel must carry Panel Height, Width		Nominal Sash cross-sectional Size Nominal Panel Thickness Nominal Panel Material Opening action/operation (where resolved)	Panels modelled as Curtain Wall Panels (not Windows) One typical CWP type (fixed glazing) used to model all instances, with the exception of sliding doors to balconies.		Nominal Sash cross-sectional Size Nominal Panel Thickness Nominal Panel Material Nominal Panel Material Nominal Panel Material Opacity (where applicable)	Panels modelled as Curtain Wall Panels (not Windows) One typical CWP type (fixed glazing) used to model all instances, with the exception of sliding doors to balconies.		Panel Thickness, Material, & Opacity (where applicable) Opening action/operation Nominal Acoustic Rating Sash cross-sectional Size, Material & Finish	Frame & Sash to be modelled to exact cross- sectional size Louvres modelled in 3D as part of custom family (or as custom mullion profiles with empty panels		Panel Thickness, Material, & Opacity (where applicable) Opening action/operation Acoustic Rating Sash cross-sectional Size, Material & Finish	Frame & Sash to be modelled to exact cross- sectional size Louvres modelled in 3D as part of custom family (or as custom mullion profiles with empty panels
		processor for walls and duors.		Curtain Wall Panel must carry Panel Height, Width and Area values. Frame (if modelled) to be mullions to nominal cross- sectional size Vents/louvres not modelled		Curtain Wall Mullions to provide: - Nominal frame cross-sectional size	Curtain Wall Panel will carry Panel Height, Width and Area values. Frame (if modelled) to be mullions to nominal cross- sectional size Vents/louvres modelled indicatively as invisible		applicable) - Opening action/operation (where resolved) Curtain Wall Mullions to provide: - Nominal frame cross-sectional size	Curtain Wall Panel will carry Panel Height, Width and Area values, as well as sash frame cross- sectional dimensions. Frame to be mullions to nominal cross-sectional size		Hardware (info sourced from hardware specialis supplier) Curtain Wall Mullions to provide: Frame cross-sectional Size	between). Opening actions/operation required to be shown as model lines		Hardware (info sourced from hardware specialist supplier) Glass Type/Spec* Curtain Wall Mullions to provide:	between). Opening actions/operation required to be shown as model lines
Church val Foundations	Structure Structural Foundation	Schedule created to cross-check number and aggregate vol	nlume	Architect	Not modelled		material with surface pattern Opening actions/operation to be shown within CWP as model lines Modelled to nominal size, shape Architect	Not modelled		Louvres modelled in 3D as part of custom family (or as custom mullion profiles with empty panels between). Opening actions/operation to be shown within CWP Diversification by type and schedule based on St	struc Engineer Not modelled	- Frame Material - Frame Finish	Diversification by type and schedule based on Struc Engineer	Not modelled	- Frame cross-sectional Size - Frame Material - Frame Finish	Diversification by type and schedule based on Contractor
Structural Foundations	Graduat Gardian	of foundations. Need to clash-check foundations against floors to verify vol. as being correctly calculated. "Join geometry' protocol to be implemented, but checks required.	lumes	, admitted		Material Reference Level	mounted to normal state, unique	not income	Material Reference Level Nominal dimensions (Height, Width, Length (or diameter, as appropriate))	material, size and configuration Modelled to nominal intended size and/or profile as per advice from Struc Engineer Reinforcement not modelled		Nominal cross-sectional size / profile Nominal Length, Volume Material Nominal Strength Nominal Reinforcement Type & Rate (weight/unit	material, size and configuration Modelled to exact intended size and/or profile Reinforcement not modelled	Tet modelle	Cross-sectional size / profile Length, Volume Material Strength Reinforcement Type & Rate (weight/unit area or	material, size and configuration Modelled to exact intended size and/or profile Reinforcement not modelled
Columns	Structure	Structural Column schedule to tally volumes and tonnage of column type. Need to clash-check columns against floors to verify volumes.	es as	Modelled as placeholder elements only, using Architect typical size, continuous through interstitial floors	Not modelled	Reference Level Material Typical cross-sectional size or configuration	Modelled as placeholder elements only, using nominal size, continuous through interstitial floors	Not modelled	Reference Level Material Nominal cross-sectional size or configuration	Diversification by type and schedule Modelled to nominal cross-sectional profiles and sizes with vertical extents through intermediate floors to allow for maximum fluidity - where both	truc Engineer Not modelled	Material, Cross-sectional size and/or profile Perimeter Mass/m or Mass/m3	Modelled to nominal cross-sectional profiles and sizes with vertical extents from floor to floor each level.	Penetrations >= 100mm diameter to be modelled	Material, Cross-sectional size and/or profile Perimeter Mass/m or Mass/m3	Diversification by type and schedule Contractor Modelled to nominal cross-sectional profiles and sizes with vertical extents from floor to floor each level.
		being correctly calculated. 'Join geometry' protocol to be implemented, but checks required. Concrete strength ratings for concrete columns to be scheduled to be consistent or optimisation across the entire design.	duled to	Dools die 10			Davis all 100			cross-sectional size and material strength are consistent. Parametrically tied to grid intersections wherever possible.	Hou Feeter	Material Strength (Tensile / Compressive) Length (Height) and Cut Length Volume Nominal reinforcement rate Description	Parametrically tied to grid intersections wherever possible.	No.	Material Strength (Tensile / Compressive) Length (Height) and Cut Length Volume Nominal reinforcement rate Description	Parametrically tied to grid intersections wherever possible. Starter bars to be modelled at key intersections with other elements (framling, slabs etc.) so as to avoid clashes during construction.
Structural Framing	Structure	Bulk check is the primary purpose. Can sort by Level if requ for further investigation.	rpe. Includes beams, girders, joists, rafters, bracing, ridge beams, waling boards, quired intels Structural Beam Systems are not exported to DWF, but the constituent element are.	method One typical size used to model all instances	Not modelled	Material Nominal cross-sectional size Reference Level	Basic diversification by material and construction Architect method One typical size used to model all instances Primary structural members only	Not modelled	Material Nominal cross-sectional size Reference Level	Profiles and types per schedule St Modelled with nominal cross-sectional geometry Connections not modelled Stiffeners not modelled Fire protection not modelled	itruc Engineer Not modelled	Nominal cross-sectional size / profile Nominal Length, Volume Nominal mass per unit length (for profiled steel) Structural Usage (orimary/secondary/lertiary/bracing/other)	Stiffeners not modelled	Not modelled	Cross-sectional size / profile Cut Length, Length, Volume Mass per unit length (for profiled steel) Material, Finish (per instance) Strenoth (for concrete elements)	Profiles and types per schedule Contractor Modelled with exact geometry Connections modelled for all structural systems Stiffeners modelled Fire protection not modelled
		Need to clash-check beams against floors to verify volumes being correctly calculated. 'Join geometry' protocol to be implemented, but checks required. Check connections with columns and floors to ensure volum								Primary/Major Steelwork to be modelled Secondary Steelwork modelled indicatively only, or specified to zones/areas in lieu of modelled elements.		(primary/secondary/tertiary/bracing/other) Material, Finish (if special) Nominal strength (for concrete) Reinforcement rates (for concrete) Reference Level Fire protection/treatment	Fire protection not modelled Primary/Major Steelwork to be modelled Secondary Steelwork to be modelled Tertiary and Bracing to be modelled		Strength (for concrete elements) Reference Level Fire protection/treatment Structural Usage (primary/secondary/tertiary etc.)	Starter bars to be modelled at key intersections with other elements (framing, slabs etc.) so as to
Services Routing	M&E	and reinforcement designs are spatially coordinated.	iles	Not modelled, although consideration should be given to spatial accommodation of main MEP runs, and connection to mains/authorities' infrastructure	Not applicable	Not applicable	Not modelled, although consideration should be Not applicable given to spatial accommodation of main MEP runs, and connection to mains/authorities' infrastructure	Not applicable	Not applicable	Modelled using placeholder geometry along routes Mrepre-agreed with Architect discussions to be modelled with exact inclination	A&E Engineer - per Not applicable iscipline	Nominal cross-sectional size Nominal length	Profiles/sizes and types per schedule M&E Engineer - per Modelled geometry to closely match overall cross- sectional size/profile Text of the section of th	Not applicable	Exact intended cross-sectional size Length per run/per system	avoid clashes during construction. Profiles/sizes and types of each element as per Contractor fabrication schedule Modelled geometry to exact cross-sectional
Equipment (Primary)	M&E	Equipment schedule listing tally for each item plus data attrias per phase.	ributes	Not modelled Not applicable	Not applicable	Not applicable	Not modelled Not applicable	Not applicable	Not applicable	Modelled as generic (placeholder) components to M. sizes as per advice from M&E Engineers. dis Access space modelled for maintenance/servicing		System Type Material Description (includes insulation) Manufacturer & Model/Series (nominal spec) System	Elements to be modelled with exact inclination Insulation to be modelled Hangers/supports and mounting brackets not modelled Modelled to be visually recognisable for the category/object Proprietary items to be modelled indicatively so as	Not applicable	System Type Material Description Insulation Material Thickness Manufacturer & Model/Series (nominal spec) System	size/profile and composition Colour coding used to visually identify disciplines or systems (TBC) Elements to be modelled with exact inclination Happing rode and braces to be modelled. Modelled to be visually recognisable for the category/object Proprietary items to be modelled indicatively so as
										and/or removal.		Type Overall Height, Width, Length Nominal Capacity (where applicable) Description Type Comments (Performance / design data TBC)	not to exceed overall dimensions of unit/type specified. Some finer details that do not affect coordination are disregarded. Access space to be modelled for maintenance/servicing and/or removal.		Type Overall Height, Width, Length Nominal Capacity (where applicable) Description Type Comments (Performance / design data TBC)	not to exceed overall dimensions of unit/type specified. Some finer details that do not affect coordination are disregarded. Access space to be modelled for maintenance/servicing and/or removal.
Boilers Chillers Cooling Towers	M&E Mechanical Equipment M&E Mechanical Equipment M&E Mechanical Equipment															
AHUs Pumps FCUs Package A/C	M&E Mechanical Equipment M&E Mechanical Equipment M&E Mechanical Equipment M&E Mechanical Equipment															
Package A/C Heat Exchangers Distribution Boards/Switchboards Switchgear	M&E Mechanical Equipment M&E Mechanical Equipment M&E Electrical Equipment M&E Electrical Equipment															
Generators Transformers UPSs	M&E Electrical Equipment M&E Electrical Equipment M&E Electrical Equipment M&E Electrical Equipment															
Water Treatment Assemblies Tanks Solar Panels	M&E Plumbing Fixture Architecture, M&E Plumbing Fixture Architecture, M&E Electrical Equipment															
Elevators	Architecture, M&E Mechanical Equipment						Modelled using a generic (nominal) component for Architect spatial allowances		Overall dimensions Nominal Minimum shaft width and depth	Modelled using a generic (nominal) component, with spatial allowances made via info from Struc and M&E Engineers.			Modelled using a generic (nominal) component, Architect with spatial allowances made via info from Struc and M&E Engineers.			Modelled using a generic (nominal) component, with spatial allowances made via info from Struc and M&E Engineers.
Escalators	Architecture, M&E Mechanical Equipment		Modelling these as stairs and railings combo can be better graphically				Modelled using a generic (nominal) component for Architect		Overall dimensions	Modelled using a generic (nominal) component,			Modelled using a manufacturer-specific component Architect			Modelled using a manufacturer-specific component
_			rich an	Na.		N	spatial allowances		Nominal Minimum shaft width and depth	with spatial allowances made via info from Struc and M&E Engineers. Pit volume allowances modelled using a Generic Model family.	10E F-a ¹		based on the item specified.	No.		based on the item specified.
Equipment (Secondary)	WICE	Equipment schedule listing tally for each item plus data field per phase.		Not modelled Not applicable	Not applicable	Not applicable	Not modelled Not applicable	Not applicable	Not applicable	Modelled to be visually recognisable for the category/object discontinuous discontinuo	1&E Engineer - per Not applicable iscipline	Manufacturer & Model/Series System Type Overall Height, Width, Length Capacity (where applicable) Description Mark (Performance data)	Modelled to be visually recognisable for the category/object M&E Engineer - per discipline Proprietary items to be modelled indicatively so as not to exceed overall dimensions of unit/type specified. Some finer details that do not affect coordination are disregarded. Access space modelled for maintenance/servicing and/or removal.	ivoi applicable	Manufacturer & Model/Series System Type Overall Height, Width, Length Capacity (where applicable) Description Mark (Performance data)	Modelled to be visually recognisable for the category/object Proprietary items to be modelled indicatively so as not to exceed overall dimensions of unit/type specified. Some finer details that do not affect coordination are disregarded. Access space modelled for maintenance/servicing and/or removal.
Fixtures / Devices	M&E			Not modelled Not applicable	Not applicable	Not Applicable	Not modelled Not applicable	Not applicable	Not Applicable	Fixtures to be modelled and located in nominal positions for each typical location - and grouped invisible model lines to be used to help cut display for floor plans	1&E Engineer Not applicable	typicals Type Comments Description (e.g. ceiling mounted recessed downlight)	e object recognition Proprietary items to be modelled indicatively so as not to exceed overall dimensions of unit/type specified. Some finer details that do not affect coordination are disregarded. Fixtures to be modelled and located in nominal	Not applicable	Count (for common areas and typical areas Schedule of typical area types and tallies to ensure aggregate cost estimates can be prepared from typicals Type Comments Description (e.g. ceiling mounted recessed downlight)	object recognition Proprietary items to be modelled indicatively so as not to exceed overall dimensions of unit/type specified. Some finer details that do not affect coordination are disregarded. Fixtures to be modelled and located in nominal
	Мос									Datail law (almost		Nominal size System Location	positions for each typical location - and grouped Mounting heights of fixtures to be referenced to FFL, positioned coplanar with ceiling or wall surface (not hosted)		Nominal size Manufacturer & Model/Series System Location (Room/Space)	positions - and grouped Wiring between devices to be shown indicatively using 2D detail linework, also grouped Mounting heights of fixtures to be referenced to FFL, positioned coplanar with ceiling or wall Detail tem (sized at 1.1 scale) for large/linear
Luminaires Lighting Switches	M&E Lighting Fixtures M&E Lighting Devices									Detail Item (sized at 1:1 scale) for large/linear fixtures		Lumens Wattage	Detail Item (sized at 1:1 scale) for large/linear fixtures Switch wiring between devices to be shown indicatively using 2D detail linework, also grouped Switch wiring between devices to be shown indicatively using 2D detail linework, also grouped		.IES fiile Lumens Wattage	Detail Item (sized at 1:1 scale) for large/linear fixtures
Power Outlets / Switches Data Outlets	M&E Electrical Fixtures M&E Communication Devices											Height above FFL Height above FFL			Height above FFL Rated Amps Supply Type (ESS/NESS/UPS) Voltage Height above FFL	
Telephone Outlets Speakers Security Cameras	M&E Communication Devices M&E Communication Devices M&E Security Devices											Height above FFL	Mounting details not modelled		Height above FFL Physical configuration (fixed/PTZ) Housing (dome/anti-vandal/weatherproof)	
Security Card Readers Wi-Fi Routers/Repeaters Intercoms	M&E Security Devices M&E Communication Devices M&E Communication Devices														ערייטייטען אַרייטיטען Pariti-vandal/weatherproof)	
Manual Call Points Controllers Fire Sprinklers	M&E Fire Alarm Devices M&E Communication Devices M&E Sprinklers									Modelled as placeholder to show location/position Sprinkler locations to be identified, showing spacing and using placeholder routing for		Height above FFL			Height above FFL	
Street Lighting Lightning Protection Nurse Call Devices	M&E Lighting Fixtures M&E Electrical Fixtures M&E Nurse Call Devices									spacing and using placeholder routing for associated pipework Modelled as placeholder to show location/position						
Sensors & Detectors Spatial Allocations	M&E Nurse Call Devices M&E Fire Alarm Devices Architecture		Smoke / Heat / Humidity / Motion	Architect	Not applicable. Room-bounding e may be used as an effective penet which can impact area. Structural	ration	Architect	Not applicable. Room-bounding el may be used as an effective penetr which can impact area. Structural	ation	Modelled as placeholder to show location/position Ar	urchitect		Architect		Detector Type	Contractor
Rooms	Architecture Rooms	highlight any that do not have resolved areas or other issues warrant attention. Check relationship with spaces is approp	ng to Rooms within typical/repeated areas would be advantaged by using a Key es that Schedule, whereby particular values would be assigned to each room based on priate a primary field. E.g. the relationship between Room Name and the abbreviation	Not required in slivers, lift wells, risers			Identification by Type (e.g. Architect Apartment/Circulation/Plant) Not required in slivers, lift wells, risers			Model/s that are to host rooms to be agreed by project team so as to remain coordinated. Identification by Type (e.g. Circulation/Plant)	vichitect Room-bounding columns should areas as per Singapore Standard of Measurement (SMM).	subtract Room Type/Classification Method			Data as per EIR	
	Architecture Areas	and consistent. Use colour-legend to flag anywhere where rooms are not de where they should he Area schedules as per BCA content, plus any JTC-centric requirements and/or area scheme definitions.	for the name could disallow inadvertent typographical errors.	Stairwells to constitute one room Area Boundary Lines to be created by the MEA, but Architect not using 'Apply Area Rules'.		Area Type	Stairwells to constitute one room Area Boundary Lines to be created by the MEA, but Architect not using 'Apply Area Rules'.		Area Type	Not required in slivers, lift wells, risers Stairwells to constitute one room Area Boundary Lines to be created by the MEA, but Ar not using 'Apply Area Rules'.	, ,	Area Type/Classification	_		Area Type/Classification	
Spaces Access/Egress	M&E Spaces Architecture	where they should be.	3D and other views (see export process) ng to As a general rule, these exist one-per-room, and above rooms within plenums a set that well. viate Ordinarily object-specific, but also needs to incorporate minor works such as	rules for area measurement. To NOT be locked to model geometry. Not modelled Not Applicable Major thoroughfares for site access/egress to be			Lines to be located with correct alignment as per rules for area measurement.			Lines to be located with correct alignment as per rules for area measurement.	1&E Engineer		Modelled, largely corresponding with rooms M&E Engineer		Data as per EIR	
Maintenance/Operations Risers Plenums	Architecture Architecture Architecture	Minimum area requirements for plant space to be reported v schedule with differences highlighted for review.	equipment changeovers (e.g. equipment fitting through doorways, going up ramps/lifts etc.) via Operations-related checks and review of spatial allocations to form part of DfM/ activities	indicated using 3D 'flat' arrows and clear accessways highlighted A Plant space requirements to be modelled as designated rooms with minimum areas satisfied. Nominal plenum depths to be determined			Nominal riser sizes to be determined and Architect with inpu provisioned (even if not modelled) Mech Engineer	t by		Nominal maintenance/operations access for equipment to be shown adjacent equipment/item concerned Modelled as generic model objects, transparent, labelled and coloured per Type based on primary services contents. To cut through floors and ceilings as appropriate.	rchitect	Type Width, Depth Height Description	Modelled as generic model objects, transparent, labelled and coloured per Type based on primary services contents. To cut through floors and ceilings as appropriate.		Type Width, Depth Height Description	Modelled as generic model objects, transparent, labelled and coloured per Type based on primary services contents. To cut through floors and ceilings as appropriate.
Zones Temporary Works	Architecture M&E N/A Construction		Typical Zones (if applicable) should be defined and documented. Project- specific zones should be defined during the project, based essentially on the completed Type C model(s). Most of these items will simply be a collection of pre-authored components that arding are dumped into a model either as indicative elements for planning, or specific	Not modelled Not Applicable Not Modelled Not Applicable	Not Applicable	Not Applicable	Not modelled Not Applicable Not modelled Not Applicable	Not Applicable	Not Applicable	Assigned as collections of spaces M. Modelled within separate model Pr Temp Works elements may not need to be no		None mandated; to be developed through actual use cases. Data below is suggested only, and	Modelled within separate model Project Engineer unle Temp Works elements may not need to be noted otherwise	ess Not Applicable	None mandated; to be developed through actual use cases. Data below is suggested only, and	Modelled within separate model Temp Works elements may not need to be otherwise
		(modelled as a wall) for example, will form part of the Construction Prelims, and not part of the building. Any sche that might otherwise include these elements must be conflig to exclude them, and this will be most easily achieved by	elements for verification of construction activity and buildability validation. Som nedules items may need to be modelled specifically for unique project requirements. gured Contractors will likely be the best placed group to model and/or source stock	100						Temp Works elements may not need to be no modelled in all areas on any particular project - but could be available for use in visualising, communicating, validating construction planning and methods, at the discretion of the Project Engineer. It is suggested to go for the Tow-hanging		use cases. Data below is suggested only, and therefore discretionary.	Temp Works elements may not need to be noted otherwise modelled in all areas on any particular project - but could be available for use in visualising, communicating, validating construction planning and methods, at the discretion of the Project Engineer. It is suggested to go for the 'low-hanging		use cases. Data below is suggested only, and therefore discretionary.	modelled in all areas on any particular project - but could be available for use in visualising, communicating, validating construction planning and methods, at the discretion of the Project Engineer. It is suggested to go for the 'low-hanging
Scaffolding	Construction Generic Model Construction Structura Structural Framing	modelling all within a standalone model, linked to the projec model but excluded from the fixed item schedules.	ct Temporary works not typically part of standard consultants' brief; if required ma constitute an additional fee for service.							truit at first, ensuring a genuine benefit is received back to the project in come form Modelled as spatial allocations (via translucent mass volumes) to identify areas of application - to overall approximate dimensions.	Strup Engines-	Overall dimensions Type Comments	fruit' at first, ensuring a genuine benefit is received back to the project in some form. Modelled to resemble a modular system, sufficient to identify if more detail will be required for construction purposes.		Overall dimensions Type Comments	fruit at first, ensuring a genuine benefit is received back to the project in some form. Modelled to resemble a modular system, sufficient to identify if more detail will be required for construction purposes.
Gantries Lighting Hoists	Construction, Structure Structural Framing Construction Construction							_		Custom - see Structural Framing St As per component library. May include zone to indicate lit area for logistics planning (throw radius/arc). As per component library	Struc Engineer	Wattage Lumens Reach/Radius	Custom - see Structural Framing Struc Engineer As per component library. May include zone to indicate lit area for logistics planning (throw radius/arc). As per component library		Wattage Lumens Reach/Radius	Custom - see Structural Framing As per component library. May include zone to indicate lit area for logistics planning (throw radius/arc). As per component library
Cranes	Construction									As per component library May include zone to indicate reach area for logistics clanning (radius/arc or volume).		Reach/Radius Capacity Weight	May include zone to indicate reach area for logistics planning (radius/arc.or.volume). As per component library May include zone to indicate reach area for logistics planning (radius/arc.or.volume).		Capacity Weicht Reach/Radius Capacity Weicht	May include zone to indicate reach area for looistics planning (radius/arc or volume). As per component library may include zone to indicate reach area for looistics planning (radius/arc or volume).
Vehicular Equipment Site Sheds	Construction Construction												As per component library Modelled indicatively, showing windows and doors		Description Overall Dimensions Mass Turning Radius/Path Canacity (Pavload) Overall dimensions	As per component library Modelled indicatively, showing windows and doors
Site Sheds Pumps Generators	Construction Mechanical Equipment Construction												Modelled indicatively, showing windows and doors so as to inform access requirements As per component library As per component library		Overall dimensions Type Comments Mass Capacity Capacity	Modelled indicatively, showing windows and doors so as to inform access requirements As per component library As per component library
Temp Stairs Hoarding	Construction Stairs Construction, Structure Walls		May include Decals (imagery) if required										Custom - see Scaffolding Modelled as wall type, with zone for props/supports		Mass Overall Dimensions Length Height	Custom - see Scaffolding Modelled as wall type, with zone for props/supports
Formwork	Construction Generic Model												Modelled as wall type or Roof: Soffit type, or face-based Generic Model (TBC)		Area Length Height Area Material	Modelled as wall type or Roof: Soffit type, or face- based Generic Model (TBC)
Bracing Safety Mesh Screens	Construction, Structure Structural Framing Construction Generic Model Construction Walls												Custom - see Structural Framing As per component library Modelled as wall type, with zone for props/supports		Description Description Cross-sectional size/dimensions Area Length	Custom - see Structural Framing As per component library Modelled as wall type, with zone for props/supports
Roof Edge Protection	Construction Railing		Could integrate some method of identifying safety hazard zone for model-based safety reviews	d -											Height Area Length Height Area	
27 Primary Categories Total 223 Total Subcategories Total													_ L			

Phase 2 – Corrigendum No. 1

or Construction				As-Built		
Penetrations Not Modelled	Data Type Comments Description	Model/Geometry Modelled using basic geometry; linework to indicated tail	MEA'ship e Contractor	Penetrations Not Modelled	Data (to be read in conjunction with the AIR: Operational Data Type Comments Description	req ±
Riser shafts, stairwells	Manufacturer/ Model (where applicable) Shop Drawings Material Source Type Comments Description	Basic diversification by type Bulkheads not modelled as part of item - modelled as calinot/wall combo. Horizontal ceilings to be modelled using 0-degree slopes, perimeter walls attached to ceiling in order	Contractor	Riser shafts, stairwells	Manufacturer/ Model (where applicable) Type Comments Description	±5
	Material (visible surface, e.g. plasterboard) Load Capacity Fire Rating U-Value Acoustic Rating Height (AFFL)	to terminate 'full height' wall finishes. Insulation to be included within assembly/type Types as per templates Insulation distinguished graphically (in plan view) Modelled using sketch lines or pick walls (no automatic ceilings)			Material (visible surface, e.g. plasterboard) Load Capacity Fire Rating U-Value Acoustic Rating Height (AFFL)	
Not applicable	Type (indicates door code & handing) Mark & Type Mark Level, Location (To Room/From Room?)	Diversification by type and schedule No mirroring; handing is as per schedule Hosted in Arch model, in correct wall layer/skin (e.g. masonry), host wall C/M to Struc Engineer's	Contractor	Not applicable	Type (indicates door code & handing) Mark & Type Mark Level, Location (To Room/From Room?)	±1(
	Fire Rating Leaf Count, Size(s) (Height, Width & Thickness), Leaf Material, Finish Hardware Set Frame Type, Material, Finish Accessories (closers, grilles, viewing panels) Acoustic Rating (if applicable)	model (openings persistent). Opening direction to code Set to correct side of wall Door numbering to reflect location by level/room Hardware not modelled, but specified in door schedule and properties (refer FM Data requirements)			Fire Rating Leaf Count, Size(s) (Height, Width & Thickness), Leaf Material, Finish Hardware Set Frame Type, Material, Finish Accessories (closers, grilles, viewing panels)	
Elevator consistent and stainvall consisten		Tolerance applies to position in host wall, not to size of door or frame.	Contractor	Elevator appaires and strinucil appaires		
Elevator openings and stainwell openings modelled. Services Risers modelled (as purpose-buil Generic Model objects with integral voids to cut floors which need to be 'activated'		Modelled with exact intended thickness Sloped elements placed with exact intended slope, and may be derived from vertice levels Construction joints and expansions joints to be modelled using Parts.	Contractor	Elevator openings and stairwell openings modelled. Services Risers modelled (as purpose-buil Generic Model objects with integral voids to cut floors which need to be 'activated'	Thickness, Volume, Area t Material Typical reinforcement Strength (concrete only)	±
manually (will only cut system families). Changes in level to be modelled Pipe/duct penetrations to be modelled for pipes/ducts greater than 50mm diameter.	Description Type Comments (Slab Edge, Slab, Strip Footing, Ramp, Screed, Hob, Landing, Upstand etc.)	Scupper drains to be modelled.		manually (will only cut system families). Shower recesses modelled, but within Architectural screed wherever possible. Pipe/duct penetrations not modelled.	Description Type Comments (Slab Edge, Slab, Strip Footing, Ramp, Screed, Hob, Landing, Upstand etc.) Type Name to indicate RC/PT and Thickness	
Not Applicable	Type Comments Description		Contractor	Not Applicable	Type Comments Description	
	Material Thickness Covering statement regarding application of finishes per area type Co-efficient of friction (applicable to trafficable				Material Thickness Material Covering statement regarding application of finishes per area type	
Not Applicable	Eurfaces colui). Type Comments Description	Modelled where required to approximate overall dimensions. Typically not included within contract used for visualisation purposes only. High-res versions of furniture to be modelled outside of project model by others, used for marketing and visualisation.	Contractor	Not Applicable	Type Comments Description	
		Any items designated as 'Not in Contract' to be shown as such - dashed lines; spatial allocation				
Not Applicable	Type Comments Description	Modelled using basic geometry, based on overall dimensions	Contractor	Not Applicable	Type Comments Description	±5
	Manufacturer / Model Number Material	Connections to be made to Fixtures once piping extends that far within the model			Manufacturer / Model Number Asset Identifier Space Warranty Data Sustem	
Not Applicable Roof access hatches and roof lights.	Length Railing Height Description (of Assembly/Pattern) Material Ciross-sectional size of members. (applied to roof covering element/material, e.g.	Modelled to reflect approximate assembly Heights and design to be BCA/NCC compliant Diversification by material and construction	Contractor	Not Applicable Roof access hatches and roof lights.	Length Railing Height Description (of Assembly/Pattern) Material Cross-sectional size of members (applied to roof covering element/material, e.g.	±5
Pipe/duct penetrations to be modelled for pipes/ducts greater than 50mm diameter.	metal deck)	method. Structural members to be modelled as per Structural Framing. Waterproofing membrane to be modelled, where applicable.	•	Pipe/duct penetrations not modelled.	metal deck) Thickness Volume (for solid structure) Perimeter Area	-
	Material Description (material & construction assembly)	One floor plate per type per thickness.			Material Description (material & construction assembly)	
Associated penetrations in roof to be						
nodelled to nominal size Not Applicable	Area	Anchor points to be modelled at actual positions and spacing as per specified system. Modelled as thin extruded surface. Decal may be	Contractor	Not Applicable	Area	±1(
Not Applicable	Description Material Nominal dimensions RLs (where applicable)	applied for visualisation purposes. Closely-matching locations Exact intended size	Contractor	Not Applicable	Description Material Nominal dimensions RLs (where appolicable) The Compete	±20
Not Applicable	Type Comments Description Cross-sectional profile (where applicable) Type Comments Description Manufacturer & Model (Preliminary spec)	3D' models used so as to provide for plan-view spatial relationships and existence in schedules. Diversification by type, modelled to resemble	Contractor	Not Applicable	Type Comments Description Cross-sectional profile (where applicable) Type Comments Description Manufacturer & Model (Preliminary spec)	±5
	Overall dimensions Description	specified item. Any items designated as 'Not in Contract' to be shown as such - dashed lines; spatial allocation only. Diversification by type, based on design	Contractor		Overall dimensions Description	±
	Risers Riser Height Tread Depth Stair Height (top to bottom; vertical rise) Width	configuration. Materials to be assigned to each stair sub-component. Modelled to the extent necessary to generate shop drawings cut from the model. Refer Railings for modelling methodology of			Riser Height Tread Depth Stair Height (top to bottom; vertical rise) Width	,
lot modelled	Base Level Throat dimension, stringer cross-sectional dimensions, whorever applicable Length Cross-sectional size/profile	Railings.	Contractor	Not modelled	Base Level Throat dimension, stringer cross-sectional dimensions, whorever applicable. Length Cross-sectional size/profile	
Required for Windows, Nested Curtain Valls, Doors Required for main MEP runs Required for anything >50mm diameter in		Diversification by key type (Lining, Finished or Rav Wall) Type Comments to describe arrangement Modelled with layers integrated to nominal overall	Contractor	Required for Windows, Nested Curtain Walls, Doors Required for main MEP runs Required for anything >50mm diameter in		±
tequired for anything >50mm diameter in structural walls (no sleeves or blockouts equired)	Area, Volume Type Comments to describe wall purpose (standard list established) Description to indicate material assembly, including Thickness per Material.	thickness Must be oriented correctly (external vs. internal) Location line for External Walls to be Core Face Interior; Internal Walls to be Centerline; Shaft Wall to be Finish Face: Interior	3	Required for anything >50mm diameter in Structural walls (no sleeves or blockouts required)	Area, Volume Type Comments to describe wall purpose (standard list established) Description to indicate material assembly, including Thickness per Material.	
	Thickness per Material. Type Number (diversification by assembly, excluding minor variation) Structural Usage Keynote Fire Rating (instance or type, as appropriate)	Wall profile editing should be avoided. May run through levels (c/w Floor-by-floor) Grouping of walls by level for duplication vertically will require original walls to be modelled from base level to a height above base level (not an explicit			Thickness per Material. Type Number (diversification by assembly, excluding minor variation) Structural Usage Keynote Fire Rating (instance or type, as appropriate)	
lot Applicable	Curtain Wall Panels to have the following assigned: - Height, Width, Area of unit/panel (mullion area not included)	top constraint to a level above) Diversification by type and schedule Hosted within basic wall or curtain wall (as curtain wall window - requiring reporting parameters for Height and Width)	Contractor	Not Applicable	Curtain Wall Panels to have the following assigned:	±
	Panel Thickness, Material, & Opacity (where applicable) Opening action/operation Acoustic Rating Sash cross-sectional Size, Material & Finish	Frame & Sash to be modelled to exact cross- sectional size Louvres modelled in 3D as part of custom family (or as custom mullion profiles with empty panels between).			Panel Thickness, Material, & Opacity (where applicable) Opening action/operation Acoustic Rating Sash cross-sectional Size, Material & Finish	
	Hardware (info sourced from hardware specialist supplier) Glass Type/Spec* Curtain Wall Mullions to provide:	Opening actions/operation required to be shown as model lines			Hardware (info sourced from hardware specialist supplier) Glass Type/Spec* Curtain Wall Mullions to provide:	
Not modelled	- Frame cross-sectional Size - Frame Material - Frame Finish	Diversification by type and schedule based on	Contractor	Not modelled	- Frame cross-sectional Size - Frame Material - Frame Finish	±ŧ
	Cross-sectional size / profile Length, Volume Material Strength Reinforcement Type & Rate (weight/unit area or	material, size and configuration Modelled to exact intended size and/or profile Reinforcement not modelled			Cross-sectional size / profile Length, Volume Material Strength Reinforcement Type & Rate (weight/unit area or	
Penetrations >= 100mm diameter to be modelled	wolume\(\) (explicit: not in Tune\(\) Name.or.\(\) Comments\(\) Material, Cross-sectional size and/or profile\(\) Perimeter\(\) Mass/m or Mass/m3\(\) Material Strength\(\) (Tensile / Compressive\(\)	Diversification by type and schedule Modelled to nominal cross-sectional profiles and sizes with vertical extents from floor to floor each level. Parametrically tied to grid intersections wherever	Contractor	Penetrations >= 100mm diameter to be modelled	wolume). /explicit: not in Tune Name or Comments\ Material, Cross-sectional size and/or profile Perimeter Mass/m or Mass/m3 Material Strength (Tensile / Compressive)	±
	Length (Height) and Cut Length Volume Nominal reinforcement rate Description	possible. Starter bars to be modelled at key intersections with other elements (framing, slabs etc.) so as to avoid clashes during construction.			Length (Height) and Cut Length Volume Nominal reinforcement rate Description	
All penetrations modelled	Cross-sectional size / profile Cut Length, Length, Volume Mass per unit length (for profiled steel) Material, Finish (per instance)	Profiles and types per schedule Modelled with closely matching cross-sectional geometry Connections not modelled Stiffeners not modelled	Contractor	Not modelled	Cross-sectional size / profile Cut Length, Length, Volume Mass per unit length (for profiled steel) Material, Finish (per instance)	±
	Strength (for concrete elements) Reference Level Fire protection/treatment Structural Usage (primary/secondary/tertiary etc.)	Fire protection not modelled Primary/Major Steelwork to be modelled Secondary Steelwork to be modelled Tertiary and Bracing to be modelled Starter bars to be modelled at key intersections			Strength (for concrete elements) Reference Level Fire protection/treatment Structural Usage (primary/secondary/tertiary etc.)	
lot applicable	Exact intended cross-sectional size, with distinction of internal vs. outside cross-sectional dimensions.	with other elements (framing, slabs etc.) so as to Profiles/sizes and types of each element as per fabrication schedule Modelled geometry to exact cross-sectional	Contractor	Not applicable	Exact intended cross-sectional size Length per run/per system	±
Not applicable	Length per unit System Type Material	size/profile and composition Colour coding used to visually identify disciplines of systems (TBC) Elements to be modelled with exact inclination Hanging rode, and braces to be modelled. Modelled to be visually recognisable for the	Contractor	Not applicable	System Type Material Description Name	±10
ти принцин	Manufacturer Model Number System Type	category/object Proprietary items to be modelled indicatively so as not to exceed overall dimensions of unit/type specified. Some finer details that do not affect	oon madd	то приносого	Type Specification Reference Location Manufacturer	
		coordination are disregarded.				
	Overall Height, Width, Length Capacity (where applicable) Description Type Comments (Performance data TBC)	coordination are disregarded. Access space modelled for maintenance/servicing and/or removal.			Model Number Warranty Duration Warranty Description (Parts &/or labour) Warrantor Serial Number	
	Overall Height, Width, Length Capacity (where applicable) Description Type Comments	Access space modelled for maintenance/servicing			Model Number Warranty Duration Warranty Description (Parts &/or labour) Warrantor Serial Number Installation Date Barcode/OR Code Asset Code System Overall Height, Width, Length	
	Overall Height, Width, Length Capacity (where applicable) Description Type Comments	Access space modelled for maintenance/servicing			Model Number Warranty Duration Warranty Description (Parts &/or labour) Warrantor Serial Number Installation Date Barcode/OR Code Asset Code System	
	Overall Height, Width, Length Capacity (where applicable) Description Type Comments	Access space modelled for maintenance/servicing			Model Number Warranty Duration Warranty Description (Parts &/or labour) Warrantor Serial Number Installation Date Barcode/OR Code Asset Code System Overall Height, Width, Length Description Type Comments Electrical Panel Name Electrical Panel Circuit	
	Overall Height, Width, Length Capacity (where applicable) Description Type Comments	Access space modelled for maintenance/servicing			Model Number Warranty Duration Warranty Description (Parts &/or labour) Warrantor Serial Number Installation Date Barcode/OR Code Asset Code System Overall Height, Width, Length Description Type Comments Electrical Panel Name Electrical Panel Circuit	
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