

BIMForum LOD Specification 2018 Part II										This work is licensed under the Creative Commons Attribution-NonCommercial 4.0 International License										Milestones shown here are examples only >										SD		DD		CD		Estimating Est. 1			Estimating Bid Pkg.			LEED Cert. Check			LEED Cert. Submittal																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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Spaces

[illegible]

A, B - Structural Steel

[illegible]

A, B Miscellaneous Steel		
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[illegible]

A, B - Concrete		
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[illegible]

A, B - Precast Concrete	
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[illegible]

A, B - Steel Open Web Joists

Baseline	This work is licensed under the Creative Commons Attribution-NonCommercial 4.0 International License	Part 1 - Attribute Description					Part 2 - Project-Specific Milestones (Examples)					
Additional								Estimating	Estimating	LEED Cert.	LEED Cert	
Attribute		Data Type	Units - Imp.	Units - Metric	Option Examples	Commentary		Est. 1	Bid Pkg.	Check	Submittal	
Type		Text			K, LH, DLH, Joist Girder	{JoistType}						
SJI Joist Designation		Text			options: [specific "18K3"]	{JoistDesignation}						
Overall Length		Number	FT			{OAL}						
Joist Depth		Number	in			{JoistDepth}						
Target LOD		Text			100, 200, 300, 350, 400							
Current LOD		Text			100, 200, 300, 350, 400							
Approx. Wt (lbs./ft.)		Number	#/ft			{JoistApproxWt}						
LRFD Load Total Safe		Number	Pounds / Lineal Foot			{Total_Load_LRFD_Safe} safe factored uniformly distributed load-carrying capacities						
LRFD Load Deflection 1/360		Number	Pounds / Lineal Foot			{Total_Load_LRFD_360} unfactored uniform load, which will produce an approximate joist deflection of 1/360 of the span						
						{}						
Shop Submittal Parameters												
Date - Issued For Construction		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateIFC}						
Date - Permitted		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DatePermitted}						
Date - recieved for Shop Detailing		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateRecievedForShopDet}						
Date - Detailing Submitted for EOR review \ Out For Aproval (OFA)		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateOutForAproval}						
Date - Final Erection Drawings Aproved for Fab		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateFinalForFab}						
Date - Fabrication Start		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateFabStart}						
Date - Fabrication End		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateFabEnd}						
Date - Fabrication Shipped		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateFabShip}						
Date - Fabrication Received		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateFabRecieved}						
Date - Erection		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateErected}						
Date - Inspected		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateInspected}						
ASD Load Total Safe		Number	Pounds / Lineal Foot			{Total_Load_ASD_Safe}						
ASD Load Deflection 1/360		Number	Pounds / Lineal Foot			{Total_Load_ASD_360}						
Fireproofed		Logical			T/F, 1/0	{JoistFireproofed}						
Archtectural Exposed Structural Steel		Logical			T/F, 1/0	{JoistAESS}						
Fabrication Sequence Number		Number				{JoistFabSequ} SequenceNumber						
Span, Base Length		Number	FT			{SpanBase}						
Design Span						{SpanDesign}						
Approximate Camber Based on Top Chord Length						{Camber}						
Extentions (Y/N)						{}						
Top Chord Extentions Left (Start End)		Logical			T/F, 1/0	{TCXL}						
Top Chord Extentions Right (Stop End)		Logical			T/F, 1/0	{TCXR}						
Bottom Chord Extension Left		Logical			T/F, 1/0	{BCXL}						
Bottom Chord Extension Right		Logical			T/F, 1/0	{BCXR}						
Lengths						{}						
Bottom Chord Extension Left Length		Number	in			{BCXLL}						
Bottom Chord Extension Right Length		Number	in			{BCXRL}						
Top Chord Extentions Left Length		Number	in			{TCXLL}						
Top Chord Extentions Right		Number	in			{TCXRL}						
Recycle Content		Number		%		{RecycleContent}						
Distance From Piont of Fabrication to Site		Number		Miles		{FabDistToSite}						
Engineering Parameters						{}						
Joist Moment Of Inertia		Number	in^4			{Ij}						
Section Modulous		Number	in^3			{Sx}						
Slope "X" Low End ("X": 12")		Number	in			{SlopeXLow}						
Slope "X" High End ("X": 12")		Number	in			{SlopeXHigh}						
Bearing Depth Left		Number	in			{BearingDepthLeft}						
Bearing Depth Right		Number	in			{BearingDepthRight}						
Approximate Duct Opening Size Round		Number	in			{}						
Approximate Duct Opening Size Square		Number	in			{}						
Approximate Duct Opening Size Rectangular (Width x Highth)		Number	in			{}						
Approximate Duct Opening Size Rectangular (Width x Highth)						{}						
Chord Yield Strength		Number				{FyChord} Refer to SJI Specification.						
All Other Yield Strength		Number				{FyOther} Refer to current SJI Specification						
Number Of Rows Of Top Chord Bridging (Estimated per SJI Table)		Number				{TopChordBrdRowReqEst}						

[illegible]

A, B - Precast Concrete	
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[illegible]

A, B - Metal Deck		
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<div><div></div>Baseline</div> <div>This work is licensed under the Creative Commons Attribution-NonCommercial 4.0 International License.</div>		Part 1 - Attribute Description						Part 2 - Project-Specific Milestones (Examples)			
Additional Attributes											
Attribute		Data Type	Units - Imp.	Units - Metric	Option Examples	Commentary	Estimating Est. 1	Estimating Bid Pkg.	LEED Cert. Check	LEED Cert Submittal	
Deck Type		Number									
Yield Strength (Fy)			PSI								
Deck Thickness		Number	in			Example 1.5"					
Deck Flute Width		Number	in			Example 1.5"					
Diaphragm Load and Deflection criteria											
Deck Material											
Deck Fasteners											
Typical Weld Specifications											
Target LOD		Text			100, 200, 300, 350, 400						
Current LOD		Text			100, 200, 300, 350, 400						
Shop Submittal Parameters											
Date - Issued For Construction		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateIFC}					
Date - Permitted		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DatePermitted}					
Date - recieved for Shop Detailing		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateRecievedForShopDet}					
Date - Detailing Submitted for EOR review \ Out For Aproval		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateOutForApproval}					
Date - Final Erection Drawings Aproved for Fab		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateFinalForFab}					
Date - Fabrication Start		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateFabStart}					
Date - Fabrication End		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateFabEnd}					
Date - Fabrication Shipped		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateFabShip}					
Date - Fabrication Received		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateFabRecieved}					
Date - Erection		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateErected}					
Date - Inspected		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateInspected}					
Finishes, i.e. painted, galvanized, etc											
Diaphragm load and deflection criteria											
Deck material											
Deck fasteners											
Typical weld specifications											

A, B Cold Formed Metal Framing	
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[illegible]

A, B - Masonry	
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[illegible]

[illegible]

BIMForum LOD Specification 2018 Part II

Baseline	This work is licensed under the Creative Commons Attribution-NonCommercial 4.0 International License	Part 1 - Attribute Description					Part 2 - Project-Specific Milestones (Examples)				
Additional Attribute							Estimating	Estimating	LEED Cert.	LEED Cert	
Attribute		Data Type	Units - Imp.	Units - Metric	Option Examples	Commentary	Est. 1	Bid Pkg.	Check	Submittal	
Grating Type											
Material					Steel, Alum, Fiberglass						
Finish					Painted, Galvanized, Anodized						
Target LOD		Text			100, 200, 300, 350, 400						
Current LOD		Text			100, 200, 300, 350, 400						
Shop Submittal Parameters											
Date - Issued For Construction		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateIFC}					
Date - Permitted		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DatePermitted}					
Date - recieved for Shop Detailing		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateRecievedForShopDet}					
Date - Detailing Submitted for EOR review \ Out For Aproval		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateOutForAproval}					
Date - Final Erection Drawings Aproved for Fab		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateFinalForFab}					
Date - Fabrication Start		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateFabStart}					
Date - Fabrication End		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateFabEnd}					
Date - Fabrication Shipped		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateFabShip}					
Date - Fabrication Received		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateFabRecieved}					
Date - Erection		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateErected}					
Date - Inspected		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateInspected}					
Reinforcement and steel lintels required at openings											
Slope											
Spacing											
Design Loads											
Deflection criteria											

A, B - Helical Piers		
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[illegible]

B – Ext. Wall

Baseline	This work is licensed under the Creative Commons Attribution-NonCommercial 4.0 International License	Part 1 - Attribute Description					Part 2 - Project-Specific Milestones (Examples)				
Additional							Estimating	Estimating	LEED Cert.	LEED Cert	
Attribute		Data Type	Units - Imp.	Units - Metric	Option Examples	Commentary	Est. 1	Bid Pkg.	Check	Submittal	
Construction		Text			framed, unit masonry, panelized, EIFS, etc.						
Material - Skin		Text			tiles, composite, sheet metal, etc.						
Material - Substrate		Text			corrugated metal, plywood, composite panels, etc.						
Material - Insulation		Text									
Wall Type		Text									
Thermal Resistance		Number	h-ft2-°F/Btu (R)	m ² oC/W (R)							
Thermal Transmittance		Number	Btu/(h-ft2-°F/Btu (U)	W/(m ² oC) (U)							
Target LOD		Text			100, 200, 300, 350, 400						
Current LOD		Text			100, 200, 300, 350, 400						
Wind Load Capacity (drag)		Number	psf	Pa							
Wind Load Capacity (pressure)		Number	psf	Pa							
Fire Rating		Text			options: [UL label - A,B,C,D,E,S]						
Impact resistance		Text			options:[T/F, class]						
UV Resistance		Text			options:[T/F, class]						
Air Infiltration		Text			options:[T/F, class]						
Sound Transmission											
Acoustic Rating		Text									
Security Rating		Text									
Glazing Area		Number	ft ²	m ²		Fraction of the glazing area relative to the total area of the filling element.					
Combustible		Logical			T/F, 1/0	Indicates whether the object is made from combustible material.					
SurfaceSpreadofFlame		Text									
IsExternal		Logical			T/F, 1/0	Should be set to TRUE for all external walls.					
Shop Submittal Parameters:						{}					
Date - Issued For Construction	Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm	{DateIFC}						
Date - Permitted	Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm	{DatePermitted}						
Date - recieved for Shop Detailing	Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm	{DateRecievedForShopDet}						
Date - Detailing Submitted for EOR review \ Out For Aproval (Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm	{DateOutForAproval}						
Date - Final Erection Drawings Aproved for Fab	Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm	{DateFinalForFab}						
Date - Fabrication Start	Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm	{DateFabStart}						
Date - Fabrication End	Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm	{DateFabEnd}						
Date - Fabrication Shipped	Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm	{DateFabShip}						
Date - Fabrication Received	Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm	{DateFabRecieved}						
Date - Erection	Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm	{DateErected}						
Date - Inspected	Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm	{DateInspected}						

B – Roof

Baseline	This work is licensed under the Creative Commons Attribution-NonCommercial 4.0 International license.	Part 1 - Attribute Description						Part 2 - Project-Specific Milestones (Examples)				
Additional								Estimating	Estimating	LEED Cert.	LEED Cert.	
Attribute		Data Type	Units - Imp.	Units - Metric	Option Examples	Commentary	IFC Property	Est. 1	Bid Pkg.	Check	Submittal	
Material - Skin		Text			tiles, composite, sheet metal, etc.							
Material - Substrate		Text			corrugated metal, plywood, composite panels, etc.							
Material - Insulation		Text			Batt, rigid, etc.							
Thermal Resistance		Number			R-value							
Thermal Transmittance		Numeric			U-value	ThermalTransmittance						
Target LOD		Text			100, 200, 300, 350, 400							
Current LOD		Text			100, 200, 300, 350, 400							
Wind Load Capacity (drag)		Number	psf	Pa								
Wind Load Capacity (pressure)		Number	psf	Pa								
UV Resistance		Logical			T/F, 1/0							
Acoustic Rating		Text				AcousticRating						
Fire Rating		Text			options: [UL label - A,B,C,D,E,S]	FireRating						
Shop Submittal Parameters:						{						
Date - Issued For Construction	Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateIFC}							
Date - Permitted	Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DatePermitted}							
Date - recieved for Shop Detailing	Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateRecievedForShopDet}							
Date - Detailing Submitted for EOR review \ Out For Aproval	Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateOutForAproval}							
Date - Final Erection Drawings Aproved for Fab	Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateFinalForFab}							
Date - Fabrication Start	Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateFabStart}							
Date - Fabrication End	Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateFabEnd}							
Date - Fabrication Shipped	Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateFabShip}							
Date - Fabrication Received	Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateFabRecieved}							
Date - Erection	Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateErected}							
Date - Inspected	Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateInspected}							

B – Ext. Glazed Openings

Baseline	This work is licensed under the Creative Commons Attribution-NonCommercial 4.0 International License	Part 1 - Attribute Description						Part 2 - Project-Specific Milestones (Examples)				
Additional Attribute		Data Type	Units - Imp.	Units - Metric	Option Examples	Commentary	IFC Property	Estimating Est. 1	Estimating Bid Pkg.	LEED Cert. Check	LEED Cert Submittal	
Construction		Text			options:[Unitized (combined glass and frame), Stick Built, Structural Glass]							
Material		Text			options:[Aluminium Framed, Bronze Framed, Stainless Steel Framed, Channel Glass]							
Thermal Resistance		Number			R-value							
Thermal Transmittance		Number			U-value	ThermalTransmittance						
Target LOD		Text			100, 200, 300, 350, 400							
Current LOD		Text			100, 200, 300, 350, 400							
Manufacturer		Text										
Model Designation		Text										
Location		Text										
Operation		Text				OperationType						
					fixed, casement, double/single hung, awning/project out, pivot, sliding							
Glass - Material		Text			options:[Glass, Plastic]							
Glass - Configuration		Text			options:[Monolithic, Insulating]							
Glass - Condition		Text			options, multiple:[Annealed, Heat Strengthend, Tempered, Laminated, Bent]							
Glass - Coatings		Text			options, multiple:[Puolytic (hard coat), Sputter (soft coat), Low E, Metallic, Ceramic Frit, Opaci Coat, Digital Printed]							
Windbourne Debris Resistance		Number	psf	Pa								
Wind Load Capacity		Number	psf	Pa								
Air Infiltration		Text			options:[yes, no, class]	Infiltration						
Sound Transmission		Text			options:[yes, no, class]							
Acoustic Rating		Text				AcousticRating						
Security Rating		Text				SecurityRating						
Glazing Area		Number				Fraction of the glazing area relative to the total area of the filling eler	GlazingAreaFraction					
Handicap Accessible		Logical					HandicapAccessible					
Fire Exit		Logical					FireExit					
HasDrive		Logical				Indicates whether the door has an automatic drive to operate it.	HasDrive					
SelfClosing		Logical					SelfClosing					
SmokeStop		Logical				Indicates whether the door is designed to provide a smoke stop.	SmokeStop					
SillExternal		Logical					HasSillExternal					
SillInternal		Logical					HasSillInternal					
GLAZING ATTRIBUTES:												
GlassLayers		Number				Number of glass layers within the frame	GlassLayers					
GlassThickness1		Number	in	mm		Inner glass layer	GlassThickness1					
GlassThickness2		Number	in	mm		Intermediate or outer glass layer	GlassThickness2					
GlassThickness3		Number	in	mm		Outer glass layer	GlassThickness3					
FillGas		Text				Name of the gas in gap between glass layers	FillGas					
GlassColor		Text					GlassColor					
IsTempered		Logical					IsTempered					
IsLaminated		Logical					IsLaminated					
IsCoated		Logical					IsCoated					
IsWired		Logical					IsWired					
VisibleLightReflectance		Number					VisibleLightReflectance					
VisibleLightTransmittance		Number					VisibleLightTransmittance					
SolarAbsorption		Number				(Asol) The ratio of incident solar radiation that is absorbed by a glazing system	SolarAbsorption					
SolarReflectance		Number				(Rsol) The ratio of incident solar radiation that is reflected by a glazing system	SolarReflectance					
SolarTransmittance		Number				(Tsol) The ratio of incident solar radiation that directly passes through a glazing system	SolarTransmittance					
SolarHeatGainTransmittance		Number				(SHGC) The ratio of incident solar radiation that contributes to the heat gain of the interior	SolarHeatGainTransmittance					
ShadingCoefficient						SC is being phased out in favor of SHGC	ShadingCoefficient					
Shop Submittal Parameters:						{}						

Date - Issued For Construction	Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateIFC}						
Date - Permitted	Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DatePermitted}						
Date - recieved for Shop Detailing	Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateRecievedForShopDet}						
Date - Detailing Submitted for EOR review \ Out For Aproval	Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateOutForAproval}						
Date - Final Erection Drawings Aproved for Fab	Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateFinalForFab}						
Date - Fabrication Start	Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateFabStart}						
Date - Fabrication End	Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateFabEnd}						
Date - Fabrication Shipped	Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateFabShip}						
Date - Fabrication Received	Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateFabRecieved}						
Date - Erection	Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateErected}						
Date - Inspected	Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateInspected}						

B – Cladding	
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[illegible]

B – Ext. Doors

Baseline	This work is licensed under the Creative Commons Attribution-NonCommercial 4.0 International License.	Part 1 - Attribute Description					IFC Property	Part 2 - Project-Specific Milestones (Examples)				
Additional		Data Type	Units - Imp.	Units - Metric	Option Examples	Commentary		Estimating	Estimating	LEED Cert.	LEED Cert	
Attribute								Est. 1	Bid Pkg.	Check	Submittal	
Type		Text			single, double, sliding, etc.		Reference					
Operation		Text			LH, LHR, RH, RHR		OperationType					
Material - Frame		Text			wood, metal, glass, etc.							
Material - Panel		Text			solid core / hollow core, wood/metal, etc.							
Material - Glazing		Text										
Hardware Set		Text			reference to schedule							
Fire Rating		Text			options: [UL label - A,B,C,D,E,S]		FireRating					
Target LOD		Text			100, 200, 300, 350, 400							
Current LOD		Text			100, 200, 300, 350, 400							
Manufacturer		Text										
Model Designation		Text										
Location		Text										
Finish - Frame		Text										
Finish - Panel		Text										
Wind Load Capacity		Number	psf	Pa								
Acoustic Rating		Text					AcousticRating					
Security Rating		Text					SecurityRating					
Glazing Area		Number				Fraction of the glazing area relative to the total area of the filling element.	GlazingAreaFraction					
Handicap Accessible		Logical					HandicapAccessible					
Fire Exit		Logical					FireExit					
HasDrive		Logical				Indicates whether the door has an automatic drive to operate it.	HasDrive					
SelfClosing		Logical					SelfClosing					
SmokeStop		Logical				Indicates whether the door is designed to provide a smoke stop.	SmokeStop					
GLAZING ATTRIBUTES:												
GlassLayers		Number				Number of glass layers within the frame	GlassLayers					
GlassThickness1		Length	in	mm		Inner glass layer	GlassThickness1					
GlassThickness2		Length	in	mm		Intermediate or outer glass layer	GlassThickness2					
GlassThickness3		Length	in	mm		Outer glass layer	GlassThickness3					
FillGas		Text				Name of the gas in gap between glass layers	FillGas					
GlassColor		Text					GlassColor					
IsTempered		Logical					IsTempered					
IsLaminated		Logical					IsLaminated					
IsCoated		Logical					IsCoated					
IsWired		Logical					IsWired					
VisibleLightReflectance		Number					VisibleLightReflectance					
VisibleLightTransmittance		Number					VisibleLightTransmittance					
SolarAbsorption		Number				(Asol) The ratio of incident solar radiation that is absorbed by a glazing system	SolarAbsorption					
SolarReflectance		Number				(Rsol) The ratio of incident solar radiation that is reflected by a glazing system	SolarReflectance					
SolarTransmittance		Number				(Tsol) The ratio of incident solar radiation that directly passes through a glazing system	SolarTransmittance					
SolarHeatGainTransmittance		Number				(SHGC) The ratio of incident solar radiation that contributes to the heat gain of the interior	SolarHeatGainTransmittance					
ShadingCoefficient						SC is being phased out in favor of SHGC	ShadingCoefficient					
Shop Submittal Parameters:												
Date - Issued For Construction		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{}	{DateIFC}					
Date - Permitted		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm			{DatePermitted}					
Date - recieved for Shop Detailing		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm			{DateRecievedForShopDet}					
Date - Detailing Submitted for EOR review \ Out For Aproval		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm			{DateOutForAproval}					
Date - Final Erection Drawings Aproved for Fab		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm			{DateFinalForFab}					
Date - Fabrication Start		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm			{DateFabStart}					
Date - Fabrication End		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm			{DateFabEnd}					
Date - Fabrication Shipped		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm			{DateFabShip}					
Date - Fabrication Received		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm			{DateFabRecieved}					
Date - Erection		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm			{DateErected}					
Date - Inspected		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm			{DateInspected}					

B,C Louvers and Vents	
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BIMForum LOD Specification 2018 Part II

[illegible]

C - Int. Windows

Baseline	This work is licensed under the Creative Commons Attribution-NonCommercial 4.0 International License	Part 1 - Attribute Description					Part 2 - Project-Specific Milestones (Examples)				
Additional							Estimating	Estimating	LEED Cert.	LEED Cert	
Attribute		Data Type	Units - Imp.	Units - Metric	Option Examples	Commentary	Est. 1	Bid Pkg.	Check	Submittal	
Construction		Text			options:[Unitized (combined glass and frame), Stick Built, Structural Glass]						
Material		Text			options:[Aluminium Framed, Bronze Framed, Stainless Steel Framed, Channel Glass]						
Thermal Resistance		Number	R-Value								
Target LOD		Text			100, 200, 300, 350, 400						
Current LOD		Text			100, 200, 300, 350, 400						
Function					fixed, casement, double/single hung, awning/project out, pivot, sliding						
Wind Load Capacity					psf						
Glazing Method					options:[Conventional, Two Sided, Three Sided, Four Sided, Pint Supported]						
Glass - Material					options:[Glass, Plastic]						
Glass - Configuration					options:[Monolithic, Insulating]						
Shop Submittal Parameters						{}					
Date - Issued For Construction	Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm			{DateIFC}					
Date - Permitted	Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm			{DatePermitted}					
Date - recieved for Shop Detailing	Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm			{DateRecievedForShopDet}					
Date - Detailing Submitted for EOR review \ Out For Aproval	Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm			{DateOutForAproval}					
Date - Final Erection Drawings Aproved for Fab	Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm			{DateFinalForFab}					
Date - Fabrication Start	Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm			{DateFabStart}					
Date - Fabrication End	Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm			{DateFabEnd}					
Date - Fabrication Shipped	Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm			{DateFabShip}					
Date - Fabrication Received	Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm			{DateFabRecieved}					
Date - Erection	Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm			{DateErected}					
Date - Inspected	Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm			{DateInspected}					
Glass - Condition					options, multiple:[Annealed, Heat Strengthend, Tempered, Laminated, Bent]						
Glass - Coatings					options, multiple:[Purolytic (hard coat), Sputter (soft coat), Low E, Metallic, Ceramic Frit, Opaci Coat, Digital Printed]						

[illegible]

C - Partitions

Baseline	This work is licensed under the Creative Commons Attribution-NonCommercial 4.0 International License	Part 1 - Attribute Description					Part 2 - Project-Specific Milestones (Examples)				
Additional							Estimating	Estimating	LEED Cert.	LEED Cert	
Attribute		Data Type	Units - Imp.	Units - Metric	Option Examples	Commentary	Est. 1	Bid Pkg.	Check	Submittal	
Framing		Text			3-5/8" Metal Studs @ 24" oc, etc						
Cladding		Text			2-layers Type x GWB						
Moisture Resistance		Logical			T/F, 1/0						
Fire Rating		Text			2-hr, etc.						
Target LOD		Text			100, 200, 300, 350, 400						
Current LOD		Text			100, 200, 300, 350, 400						
Wall Type											
Base Constraint					options:[First Floor, Second Floor, etc.]						
Base Offset					options:[dimension: 6", 1'-4", etc.]						
Top Constraint					options:[First Floor, Second Floor, etc.]						
Shop Submittal Parameters						{}					
Date - Issued For Construction		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateIFC}					
Date - Permitted		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DatePermitted}					
Date - recieved for Shop Detailing		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateRecievedForShopDet}					
Date - Detailing Submitted for EOR review \ Out For Aproval		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateOutForAproval}					
Date - Final Erection Drawings Aproved for Fab		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateFinalForFab}					
Date - Fabrication Start		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateFabStart}					
Date - Fabrication End		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateFabEnd}					
Date - Fabrication Shipped		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateFabShip}					
Date - Fabrication Received		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateFabRecieved}					
Date - Erection		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateErected}					
Date - Inspected		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateInspected}					
Top Offset					options:[dimension: 6", 1'-4", etc.]						
Structural					options:[yes, no]						
Length					options:[dimension: 12'-0", 23'-4", etc.]						
Area					options:[area: 110 sf, 1,300 sf, etc.]						
Volume					options:[volume: 1,760 cf, 7,650 cf, etc.]						
Mark					options:[reference to schedule]						
Phase Created					options:[Existing, New Construction, Phase 1, Phase 2, etc.]						
Structure Material					options:[Concrete, Masonry, Wood Stud, Metal Stud, etc.]						
Width					options:[dimension: 4 7/8", 7 1/4" 7 5/8", 1'-0" etc]						
Function					options:[Interior, Exterior, Foundation, Retaining, Soffit, Core-Shaft, etc.]						
Model					options:[manufacturer specific information]						
Manufacturer					options:[manufacturer specific information]						
URL					options:[manufacturer specific information]						
Assembly Code (Unifomat)					C1010						

C - Raised Floor

Baseline	This work is licensed under the Creative Commons Attribution-NonCommercial 4.0 International License	Part 1 - Attribute Description					Part 2 - Project-Specific Milestones (Examples)				
Additional							Estimating	Estimating	LEED Cert.	LEED Cert	
Attribute		Data Type	Units - Imp.	Units - Metric	Option Examples	Commentary	Est. 1	Bid Pkg.	Check	Submittal	
Model		Text			options:[manufacturer specific information]						
Manufacturer		Text			options:[manufacturer specific information]						
Grid		Text			12x12, etc.						
Height		Number									
Target LOD		Text			100, 200, 300, 350, 400						
Current LOD		Text			100, 200, 300, 350, 400						
Material Thickness		Text			options:[dimension: 1", 1 1/4",etc.]						
Material Types		Text			options:[Concrete, Steel, Aluminum]						
Level					options:[First Floor, Second Floor, etc.]						
Shop Submittal Parameters						{}					
Date - Issued For Construction		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateIFC}					
Date - Permitted		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DatePermitted}					
Date - recieved for Shop Detailing		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateRecievedForShopDet}					
Date - Detailing Submitted for EOR review \ Out For Aproval		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateOutForAproval}					
Date - Final Erection Drawings Aproved for Fab		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateFinalForFab}					
Date - Fabrication Start		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateFabStart}					
Date - Fabrication End		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateFabEnd}					
Date - Fabrication Shipped		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateFabShip}					
Date - Fabrication Received		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateFabRecieved}					
Date - Erection		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateErected}					
Date - Inspected		Datetime	yyyy-mm-ddThh:mm	yyyy-mm-ddThh:mm		{DateInspected}					
Height Offset from Level					options:[dimension: 8", 1'-0", etc]						
Room Bounding					options:[yes, no]						
Structural					options:[yes, no]						
Area					options:[dimension: 100 sf, 1,235 sf, etc.]						
Perimeter					options:[dimension: 42'-5", 125'-0", etc.]						
Comments					options:[reference to schedule]						
Mark					options:[reference to schedule]						
Phase Created					options:[Existing, New Construction, Phase 1, Phase 2, etc.]						
Keynote					options:[reference to schedule]						
URL					options:[manufacturer specific information]						
Assembly Code (Uniformat)					C1060						
Assembly Description (Uniformat)					Raised Floor Construction						
Cost					options:[cost = \$/sf]						
Phase Demolished					options:[New Construction, Phase 1, Phase 2, etc.]						

C - Susp. Clg.		
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[illegible]

D10 - Conveying

Baseline		Part 1 - Attribute Description				Part 2 - Example Project-Specific Milestones				
Additional							Estimating	Estimating	LEED Cert.	LEED Cert
Attribute		Data Type	Units - Imp.	Units - Metric	Option Examples	Commentary	Est. 1	Bid Pkg.	Check	Submittal
Global Attributes										
Target LOD		Text			100, 200, 300, 350, 400					
Current LOD		Text			100, 200, 300, 350, 400					
Item-Specific Attributes										
Electrical										
	Riser Fuses for Separate Lighting	Number								
	Riser Fuses	Number								
	Nominal Line Current	Number								
	Max. RMS acc. Line Current, Ia	Number								
	Main Supply Voltage	Number	Volts							
	Main Fuses	Number								
	Lighting Fuses	Number								
	Frequency	Number	Hz							
Mechanical										
	Pit Floor Load	Number								
	Lifting Hook Capacity	Number								
	Force z Cwt	Number								
	Force z Car	Number								
	Force y Cwt	Number								
	Force y Car	Number								
	Force x Cwt	Number								
	Force x Car	Number								
Dimensions										
	Travel Distance	Number								
	shaft depth	Number								
	shaft width	Number								
	Overhead height	Number								
	Pit Depth	Number								
	Clear Width	Number								
	Clear Height	Number								
	Clear Depth	Number								
Identity										
	Manufacturer	Text								
	Group ID	Text								
	Equipment ID	Text								
Elevator										
	Speed	text								
	Capacity	text								
	Machine Type	text								
	Cwt Orientation	text								
	Main Entrance Level	text								
	Total Floors Served	Number								
	Floors served front side	text								
	Number of Accesses front side	Number								
	Floors served back side	text								
	Number of Accesses back side	Number								
	Landing Door Clear Width front side	Number								
	Landing Door Clear Height front side	Number								
	Landing Door Clear Width back side	Number								
	Landing Door Clear Height back side	Number								
	Type of door front side	text			1-leaf 2-leaf telescopic 3-leaf telescopic 2-leaf central 4-leaf central 6-leaf central Other					

[illegible]

Baseline Additional Attribute	Part 1 - Attribute Description						Part 3 - Example Project-Specific Milestones										
	Data Type	Units - Imp.	Units - Metric	Option Examples	Commentary	IFC Name	COBie Tag	Estimating	Estimating	LEED Cert.							LEED Cert
								Est. 1	Bid Pkg.	Check							Submittal
Global Attributes																	
Component ID	Text				Part or Equipment Tag												
Condition Status	Text			New, Existing, Demolish, Temporary, User Defined	Status of the element, predominately used in renovation or retrofitting projects												
Room Number	Text				Room number where component to be/is installed												
Room Name	Text				Room name where component to be/is installed												
Story Number	Text				Floor or level room is located												
Manufacturer Name	Text				The organization that manufactured and/or assembled the item.												
Product Name	Text				The manufacturers model name of the product model (or product line)												
Model Designation	Text				The manufacturers model number or designator of the product model (or product line)												
Target LOD	Text			100, 200, 300, 350, 400													
Current LOD	Text			100, 200, 300, 350, 400													
Component characteristics																	
Acquisition Date	Date Time	Date			Properties of individual elements of manufactured products The date that the manufactured item was purchased.												
Assembly Place	Text				Code defining where the assembly takes place												
Bar Code	Text				The identity of the bar code given to an occurrence of the product.												
Batch Reference	Text				The identity of the batch reference from which an occurrence of a product is taken.												
Production Year	Number	Year			The year of production of the manufactured item.												
Serial Number	Text				The serial number assigned to an occurrence of a product.												
Design Performance	Text																
Service Life					Captures the period of time that an artifact will last.												
Mean Time Between Failure	Number	Days			The average time duration between instances of failure of a product.												
Service Life Duration	Number	Year(s)			The length or duration of a service life.												
Service Life Factors	Text				Captures various factors that impact the expected service life of elements within the system or zone.												
Design Level	Text				Adjustment of the service life resulting from the effect of design level employed.												
Indoor Environment	Text				Adjustment of the service life resulting from the effect of the indoor environment (where appropriate).												
In Use Conditions	Text				Adjustment of the service life resulting from the effect of the conditions in which components are operating.												
Maintenance Level	Text				Adjustment of the service life resulting from the effect of the level or degree of maintenance applied to components.												
Outdoor Environment	Text				Adjustment of the service life resulting from the effect of the outdoor environment (where appropriate).												
Quality Of Components	Text				Adjustment of the service life resulting from the effect of the quality of components used.												
Work Execution Level	Text				Adjustment of the service life resulting from the effect of the quality of work executed.												
Warranty	Text				A written guarantee, issued to the purchaser of an article by its manufacturer, promising to repair or replace it if necessary items, conditions or actions that may be excluded from the warranty or that may cause the warranty to become void.												
Is Extended Warranty	Logical			True or False	Indication of whether this is an extended warranty whose duration is greater than that normally assigned												
Point Of Contact	Text				The organization that should be contacted for action under the terms of the warranty.												
Warranty Content	Text				The content of the warranty.												
Warranty End Date	Date Time	Date			The date on which the warranty expires.												
Warranty Identifier	Text				The identifier assigned to a warranty.												
Warranty Period	Number	Year(s)			The time duration during which a manufacturer or supplier guarantees or warrants the performance of an artefact.												
Warranty Start Date	Date Time	Date			The date on which the warranty commences.												
Fixture-Specific Attributes																	
Bath Tub					Sanitary appliance for immersion of the human body or parts of it.	IfSanitaryTerminal											
Bath Type	Text			Domestic, Domestic Corner, Foot, Jacuzzi, Plunge, Sitz, Treatment, Whirlpool, User Defined	The property enumeration defines the types of bath that may be specified within the property set.												
Color	Text			White, Almond, User Defined	Principal color of the object.												
Drain Size	Number	Inch	mm		The size of the drain outlet connection from the object.												
Has Grab Handles	Logical				Indicates whether the bath is fitted with handles that provide assistance to a bather in entering or leaving the bath.												
Nominal Depth	Number	Inch	mm		Nominal or quoted depth of the object.												
Nominal Length	Number	Inch	mm		Nominal or quoted length of the object.												
Nominal Width	Number	Inch	mm		Nominal or quoted width of the object.												
Bidet					Waste water appliance for washing the excretory organs while sitting astride the bowl	IfcSanitaryTerminal											
Bidet Type	Text				The property enumeration defines the types of bidet that may be specified within the property set.												
Color	Text			White, Almond, User Defined	Color selection for this object.												
Drain Size	Number	Inch	mm		The size of the drain outlet connection from the object.												
Mounting	Text			BackToWall, Pedestal, Wall Hung	The property defines sanitary terminals mounting type												
Nominal Depth	Number	Inch	mm		Nominal or quoted depth of the object.												
Nominal Length	Number	Inch	mm		Nominal or quoted length of the object.												
Nominal Width	Number	Inch	mm		Nominal or quoted width of the object.												
Spillover Level	Number	Inch	mm		The level at which water spills out of the object.												
Culvert					Covered channel or large pipe that forms a watercourse below ground level, usually under a road or railway.	IfcPipeSegment											
Culvert Type	Text				The property enumeration defines the types of culvert that may be specified within the property set.												
Clear Depth	Number	Inch	mm		The clear depth of the culvert.												
Internal Width	Number	Inch	mm		The internal width of the culvert.												
Drinking Fountain					A sanitary terminal that provides a low pressure jet of water for a specific purpose.	IfcSanitaryTerminal											
Fountain Type	Text			Drinking Water, Eyewash, User Defined	Selection of the type of fountain												
Color	Text			White, Almond, Stainless, User Defined	Color selection for this object.												
Drain Size	Number	Inch	mm		The size of the drain outlet connection from the object.												
Mounting	Text			BackToWall, Pedestal, Countertop, WallHung, User Defined	Selection of the form of mounting of the fountain												
Nominal Depth	Number	Inch	mm		Nominal or quoted depth of the object.												
Nominal Length	Number	Inch	mm		Nominal or quoted length of the object.												
Nominal Width	Number	Inch	mm		Nominal or quoted width of the object.												
Floor Drain					Pipe fitting, set into the floor, that collects waste water and discharges it to a separate trap.	IfcWasteTerminal											
Drain Type	Text				Identifies the predefined types of drain from which the type required may be set.												
Cover Length	Number	Inch	mm		The length measured along the x-axis in the local coordinate system or the radius (in the case of a circular shape in plan) of the cover												
Cover Width	Number	Inch	mm		The length measured along the y-axis in the local coordinate system of the cover of the waste.												
Nominal Body Depth	Number	Inch	mm		Nominal or quoted length measured along the z-axis in the local coordinate system of the waste.												

[illegible]

[illegible]

[illegible]

[illegible]

D30 - HVAC																								
Baseline		Part 1 - Attribute Description										Part 3 - Example Project-Specific Milestones												
Additional														Estimating	Estimating	LEED Cert.	LEED Cert							
Attribute		Data Type	Units - Imp.	Units - Metric	Option Examples	Commentary						IFC Name	COBIE Tag		Est. 1	Bid Pkg.	Check	Submittal						
Global Attributes																								
Component ID		Text				Project assigned number for components (e.g. tag number)																		
Condition Status		Text			New, Existing, Demolish, Temporary, User Defined	Status of the element, predominately used in renovation or retrofitting projects																		
Room Number		Text				Room number where component to be/is installed																		
Room Name		Text				Room name where component to be/is installed																		
Story Number		Text				Floor or level room is located																		
Manufacturer Name		Text				The organization that manufactured and/or assembled the item.																		
Product Name		Text				The descriptive model name of the product model (or product line) as assigned by the manufacturer of the manufactured item.																		
Model Designation		Text				The model number or designator of the product model (or product line) as assigned by the manufacturer of the manufactured																		
Target LOD		Text			100, 200, 300, 350, 400																			
Current LOD		Text			100, 200, 300, 350, 400																			
Component characteristics						Defines properties of individual instances of manufactured products that may be given by the manufacturer.																		
Acquisition Date		Date Time	Date			The date that the manufactured item was purchased.																		
Assembly Place		Text			Onsite, factory, other offsite	Enumeration defining where the assembly is intended to take place, either in a factory, other offsite location or on the building																		
Bar Code		Text				The identity of the bar code given to an occurrence of the product.																		
Batch Reference		Text				The identity of the batch reference from which an occurrence of a product is taken.																		
Production Year		Number	Year			The year of production of the manufactured item.																		
Serial Number		Text				The serial number assigned to an occurrence of a product.																		
Design Performance																								
Service Life						Captures the period of time that an artifact will last.																		
Mean Time Between Failure		Number	Days			The average time duration between instances of failure of a product.																		
Service Life Duration		Number	Year(s)			The length or duration of a service life.																		
Service Life Factors		Text				Captures various factors that impact the expected service life of elements within the system or zone.																		
Design Level		Text				Adjustment of the service life resulting from the effect of design level employed.																		
Indoor Environment		Text				Adjustment of the service life resulting from the effect of the indoor environment (where appropriate).																		
In Use Conditions		Text				Adjustment of the service life resulting from the effect of the conditions in which components are operating.																		
Maintenance Level		Text				Adjustment of the service life resulting from the effect of the level or degree of maintenance applied to components.																		
Outdoor Environment		Text				Adjustment of the service life resulting from the effect of the outdoor environment (where appropriate)																		
Quality Of Components		Text				Adjustment of the service life resulting from the effect of the quality of components used.																		
Work Execution Level		Text				Adjustment of the service life resulting from the effect of the quality of work executed.																		
Warranty						An assurance given by the seller or provider of an artefact that the artefact is without defects and will operate as described																		
Exclusions		Text				Items, conditions or actions that may be excluded from the warranty or that may cause the warranty to become void.																		
Is Extended Warranty		Logical			True or False	Indication of whether this is an extended warranty whose duration is greater than that normally assigned to an artefact (=TRUE)																		
Point Of Contact		Text				The organization that should be contacted for action under the terms of the warranty.																		
Warranty Content		Text				The content of the warranty.																		
Warranty End Date		Date Time	Date			The date on which the warranty expires.																		
Warranty Identifier		Text				The identifier assigned to a warranty.																		
Warranty Period		Number	Year(s)			The time duration during which a manufacturer or supplier guarantees or warrants the performance of an artefact.																		
Warranty Start Date		Date Time	Date			The date on which the warranty commences.																		
Item-Specific Attributes																								
Air Conditioning Unit						A unitary packaged air-conditioning unit typically used in residential or light commercial applications.						if:UnitaryEquipment												
AC Unit Type		Text				The property enumeration defines the types of air conditioning unit that may be specified within the property set.																		
Air Handler Construction		Text			Manufactured item, constructed on site.	Enumeration defining how the air handler might be fabricated.																		
Air Handler Fan Coil Arrangement		Text			Blow Through, Draw Through, unknown	Enumeration defining the arrangement of the supply air fan and the cooling coil.																		
Condenser Entering Temperature		Number	Degrees F	Degrees C		Temperature of fluid entering condenser.																		
Condenser Flowrate		Number	Gallons/Min	Liters/Min		Flow rate of fluid through the condenser.																		
Condenser Leaving Temperature		Number	Degrees F	Degrees C		Temperature of fluid leaving condenser.																		
Cooling Efficiency		Number	None			Coefficient of Performance: Ratio of cooling energy output to energy input under full load operating conditions.																		
Dual Deck		Logical			True or False	Does the Air Handler have a dual deck? TRUE = Yes, FALSE = No.																		
Heating Capacity		Number	BTU/Hr			Heating capacity.																		
Heating Efficiency		Number	None			Heating efficiency under full load heating conditions.																		
Latent Cooling Capacity		Number	Ton/minute			Latent cooling capacity.																		
Outside Air Flowrate		Number	Cubic Feet/Minute	Liter/Minute		Flow rate of outside-air entering the unit.																		
Sensible Cooling Capacity		Number	BTU/Hr			Sensible cooling capacity.																		
Air Terminal Box						an air terminal box typically participates in an HVAC duct distribution system and is used to control or modulate the amount of air delivered to its downstream ductwork						if:AirTerminalBox												
Terminal Type		Text			VAV, CAV, User Defined	The property enumeration defines the types of air terminal box that may be specified within the property set.																		
Arrangement Type		Text			Single Duct, Dual Duct	Terminal box arrangement. Single Duct: Terminal box receives warm or cold air from a single air supply duct. Dual Duct: Terminal box receives warm and cold air from separate air supply ducts.																		
Airflow Rate Range		Number	Cubic Feet/Minute	Liter/Minute		Range of airflow that can be delivered.																		
Air Pressure Range		Number	Cubic Feet/Minute	Liter/Minute		Allowable air static pressure range at the entrance of the air terminal box.																		
Has Fan		Text			True or False	Terminal box has a fan inside (fan powered box).																		
Has Return Air		Logical			True or False	Terminal box has return air mixed with supply air from duct work.																		
Has Sound Attenuator		Logical			True or False	Terminal box has a sound attenuator.																		
Housing Thickness		Logical			mm	Air terminal box housing material thickness.																		
Nominal Air Flow Rate		Number	Cubic Feet/Minute	Liter/Minute		Nominal airflow rate.																		
Nominal Damper Diameter		Number	Inch	mm		Nominal damper diameter.																		
Nominal Inlet Air Pressure		Number	PSI	Pa		Nominal airflow inlet static pressure.																		
Operation Temperature Range		Number	Degrees F	Degrees C		Allowable operational range of the ambient air temperature.																		
Release Type		Text				Terminal box reheat type.																		
Return Air Fraction Range		Number	None			Allowable return air fraction range as a fraction of discharge airflow.																		
Airflow Curve		Number	Cubic Feet/Minute	Liter/Minute		Air flowrate versus damper position relationship; airflow = f (valve position).																		
Atmospheric Pressure		Number	PSI	Pa		Ambient atmospheric pressure.																		
Damper Position		Number	None		1,2,3...	Control damper position, ranging from 0 to 3.																		
Sound Rating		Number	dB			Sound performance.																		
Air Terminal						An air terminal is a terminating or origination point for the transfer of air between distribution system(s) and one or more spaces. It can also be used for the transfer of air between adjacent spaces.						if:AirTerminal												
Air Terminal Type		Text				The property enumeration defines the types of air terminal that may be specified within the property set.																		
Air Diffusion Performance Index		Number	None			The Air Diffusion Performance Index (ADPI) is used for cooling mode conditions. If several measurements of air velocity and air temperature are made throughout the occupied zone of a space, the ADPI is the percentage of locations where measurements were taken that meet the specifications for effective draft temperature and air velocity.																		

[illegible]

Chiller				A chiller is a device used to remove heat from a liquid via a vapor-compression or absorption refrigeration cycle to cool a fluid, typically water or a mixture of water and glycol. The chilled fluid is then used to cool and dehumidify air in a building.				#Chiller			
Chiller Type				The property enumeration defines the types of chiller that may be specified within the property set.							
Capacity Curve				Chiller cooling capacity is a function of condensing temperature and evaporating temperature.							
Coefficient Of Performance Curve				Chiller coefficient of performance (COP) is function of condensing temperature and evaporating temperature.							
Full Load Ratio Curve				Ratio of actual power to full load power as a quadratic function of part load							
Nominal Capacity				Nominal cooling capacity of chiller at standard conditions as defined by the agency having jurisdiction.							
Nominal Condensing Temperature				Chiller condensing temperature.							
Nominal Efficiency				Nominal chiller efficiency under nominal conditions.							
Nominal Evaporating Temperature				Chiller evaporating temperature.							
Nominal Heat Rejection Rate				Sum of the refrigeration effect and the heat equivalent of the power input to the compressor.							
Nominal Power Consumption				Nominal total power consumption.							
Capacity				The product of the ideal capacity and the overall volumetric efficiency of the compressor.							
Coefficient Of Performance				The Coefficient of performance (COP) is the ratio of heat removed to energy input.							
Energy Efficiency Ratio				The Energy efficiency ratio (EER) is the ratio of net cooling capacity to the total input rate of electric power applied							
Coil				A coil is a device used to provide heat transfer between non-mixing media.				#Coil			
Coil Type				The property enumeration defines the types of coil that may be specified within the property set.							
Airflow Rate Range				Possible range of airflow that can be delivered.							
Nominal Latent Capacity				Nominal latent capacity.							
Nominal Sensible Capacity				Nominal sensible capacity.							
Nominal U A				Nominal UA value.							
Operational Temperature Range				Allowable operational air temperature range.							
Placement Type				Indicates the placement of the coil							
Air Pressure Drop Curve				Air pressure drop curve, pressure drop – flow rate curve							
Atmospheric Pressure				Ambient atmospheric pressure.							
Face Velocity				Air velocity through the coil.							
Sound Curve				Regenerated sound versus air-flow rate.							
Sound Attenuation				TRUE if the coil has sound attenuation, FALSE if it does not.							
Water Coil				Hydronic coil type attributes.							
Bypass Factor				Fraction of air that is bypassed by the coil.							
Coil Connection Direction				Coil connection direction (facing into the air stream).							
Coil Coolant				The fluid used for heating or cooling used by the hydronic coil.							
Coil Face Area				Coil face area in the direction against air flow.							
Coil Fluid Arrangement				Fluid flow arrangement of the coil							
Fluid				The properties of the hydronic fluid used for heat transfer within the coil tubes.							
Fluid Pressure Range				Allowable water working pressure range inside the tube.							
Heat Exchange Surface Area				Heat exchange surface area associated with U-value							
Primary Surface Area				Primary heat transfer surface area of the tubes and headers.							
Secondary Surface Area				Secondary heat transfer surface area created by fins.							
Sensible Heat Ratio				Air-side sensible heat ratio, or fraction of sensible heat transfer to the total heat transfer.							
Total U A Curves				Total UA curves, UA- air and water velocities							
Water Pressure Drop Curve				Water pressure drop curve, pressure drop – flow rate curve							
Wet Coil Fraction				Fraction of coil surface area that is wet (0-1).							
Compressor				A compressor is a device that compresses a fluid typically used in a refrigeration circuit.				#Compressor			
Compressor Type				The property enumeration defines the types of compressor that may be specified within the property set.							
Compressor Speed				Compressor speed.							
Has Hot Gas Bypass				Whether or not hot gas bypass is provided for the compressor							
Ideal Capacity				Compressor capacity under ideal conditions.							
Ideal Shaft Power				Compressor shaft power under ideal conditions.							
Impeller Diameter				Diameter of compressor impeller - used to scale performance of geometrically similar compressors.							
Maximum Part Load Ratio				Maximum part load ratio as a fraction of nominal capacity.							
Minimum Part Load Ratio				Minimum part load ratio as a fraction of nominal capacity.							
Nominal Capacity				Compressor nameplate capacity.							
Power Source				Type of power driving the compressor.							
Refrigerant Class				CFC, HCFC, HFC Refrigerant class used by the compressor.							
Refrigerant Type				Refrigerant material.							
Coefficient Of Performance				Coefficient of performance (COP).							
Compression Efficiency				Ratio of the work required for isentropic compression of the gas to the work delivered to the gas within the compression volume.							
Compressor Capacity				The product of the ideal capacity and the overall volumetric efficiency of the compressor.							
Compressor Total Efficiency				Ratio of the thermal cooling capacity to electrical input.							
Compressor Total Heat Gain				Compressor total heat gain.							
Energy Efficiency Ratio				Energy efficiency ratio (EER).							
Friction Heat Gain				Friction heat gain.							
Full Load Ratio				Ratio of actual power to full load power as a quadratic function of part load, at certain condensing and evaporating temperature							
Input Power				Input power to the compressor motor.							
Isentropic Efficiency				Ratio of the work required for isentropic compression of the gas to work input to the compressor shaft.							
Lubricant Pump Heat Gain				Lubricant pump heat gain.							
Mechanical Efficiency				Ratio of the work (as measured) delivered to the gas to the work input to the compressor shaft.							
Shaft Power				The actual shaft power input to the compressor							
Volumetric Efficiency				Ratio of the actual volume of gas entering the compressor to the theoretical displacement of the compressor.							
Condenser				A condenser is a device that is used to dissipate heat, typically by condensing a substance such as a refrigerant from its gaseous to its liquid state				#Condenser			
Condenser Type				The property enumeration defines the types of condenser that may be specified within the property set.							
External Surface Area				External surface area (both primary and secondary area).							
Internal Refrigerant Volume				Internal volume of condenser (refrigerant side).							
Internal Surface Area				Internal surface area.							
Internal Water Volume				Internal volume of condenser (water side).							
Nominal Heat Transfer Area				Nominal heat transfer surface area associated with nominal overall heat transfer coefficient.							
Nominal Heat Transfer Coefficient				Nominal overall heat transfer coefficient associated with nominal heat transfer area.							
Refrigerant Class				CFC, HCFC, HFC Refrigerant class used by the condenser.							
Refrigerant Material				The refrigerant material used for heat transfer purposes.							
Compressor Condenser Heat Gain				Heat gain between condenser inlet to compressor outlet.							
Compressor Condenser Pressure Drop				Pressure drop between condenser inlet and compressor outlet.							
Condenser Mean Void Fraction				Mean void fraction in condenser.							
Condenser Temperature				Refrigerant condensing temperature.							
Exterior Heat Transfer Coefficient				Exterior heat transfer coefficient associated with exterior surface area.							
Heat Rejection Rate				Sum of the refrigeration effect and the heat equivalent of the power input to the compressor.							
Interior Heat Transfer Coefficient				Interior heat transfer coefficient associated with interior surface area.							
Logarithmic Mean Temperature Difference				Logarithmic mean temperature difference between refrigerant and water or air.							
Refrigerant Fouling Resistance				Fouling resistance on the refrigerant side.							
U A curves				UW = f (VExterior, VInterior), UW as a function of interior and exterior fluid flow velocity at the entrance.							
Water Fouling Resistance				Fouling resistance on water/air side.							
Chilled Beam				A cooled beam (or chilled beam) is a device typically used to cool air by circulating a fluid such as chilled water through exposed fixed tubes				#CooledBeam			

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Baseline		Additional		Part 1 - Attribute Description								Part 3 - Example Project-Specific Milestones											
This work is licensed under the Creative Commons Attribution-NonCommercial 4.0 International License												Estimating		Estimating		LEED Cert.		LEED Cert.					
Attribute		Data Type		Units - Imp.		Units - Metric		Option Examples		Commentary		IFC Name		COBie Tag		Est. 1		Bid Pkg.		Check		Submittal	
Global Attributes																							
Component ID		Text						New, Existing, Demolish, Temporary, User Defined		Part or Equipment Tag													
Condition Status		Text								Status of the element, predominantly used in renovation or retrofitting projects													
Room Number		Text								Room number where component to be/is installed													
Room Name		Text								Room name where component to be/is installed													
Story Number		Text								Floor or level room is located													
Manufacturer Name		Text								The organization that manufactured and/or assembled the item.													
Product Name		Text								The manufacturers model name of the product model (or product line)													
Model Designation		Text								The manufacturers model number or designator of the product model (or product line)													
Target LOD		Text				100, 200, 300, 350, 400																	
Current LOD		Text				100, 200, 300, 350, 400																	
Component characteristics										Properties of individual elements of manufactured products													
Acquisition Date		Date Time		Date						The date that the manufactured item was purchased.													
Assembly Place		Text								Code defining where the assembly takes place													
Bar Code		Text								The identity of the bar code given to an occurrence of the product.													
Batch Reference		Text								The identity of the batch reference from which an occurrence of a product is taken.													
Production Year		Number		Year						The year of production of the manufactured item.													
Serial Number		Text								The serial number assigned to an occurrence of a product.													
Design Performance																							
Service Life										Captures the period of time that an artifact will last.													
Mean Time Between Failure		Number		Days						The average time duration between instances of failure of a product.													
Service Life Duration		Number		Year(s)						The length or duration of a service life.													
Service Life Factors										Captures various factors that impact the expected service life of elements within the system or zone.													
Design Level		Text								Adjustment of the service life resulting from the effect of design level employed.													
Indoor Environment		Text								Adjustment of the service life resulting from the effect of the indoor environment (where appropriate).													
In Use Conditions		Text								Adjustment of the service life resulting from the effect of the conditions in which components are operating.													
Maintenance Level		Text								Adjustment of the service life resulting from the effect of the level or degree of maintenance applied to components.													
Outdoor Environment		Text								Adjustment of the service life resulting from the effect of the outdoor environment (where appropriate).													
Quality Of Components		Text								Adjustment of the service life resulting from the effect of the quality of components used.													
Work Execution Level		Text								Adjustment of the service life resulting from the effect of the quality of work executed.													
Warranty										A written guarantee, issued to the purchaser of an article by its manufacturer, promising to repair or replace it if necessary within a specified period of time													
Exclusions		Text								Items, conditions or actions that may be excluded from the warranty or that may cause the warranty to become void.													
Is Extended Warranty		Logic						True or False		Indication of whether this is an extended warranty whose duration is greater than that normally assigned													
Point Of Contact		Text								The organization that should be contacted for action under the terms of the warranty.													
Warranty Content		Text								The content of the warranty.													
Warranty End Date		Date Time		Date						The date on which the warranty expires.													
Warranty Identifier		Text								The identifier assigned to a warranty.													
Warranty Period		Number		Year(s)						The time duration during which a manufacturer or supplier guarantees or warrants the performance of an artefact.													
Warranty Start Date		Date Time		Date						The date on which the warranty commences.													
Room-Specific Attributes																							
Breaching Inlet										Symmetrical pipe fitting that unites two or more inlets into a single pipe		#FireSuppressionTerminal											
Breaching Inlet Type		Text								Defines the type of breaching inlet.													
Coupling Type		Text								Defines the type coupling on the inlet of the breaching inlet.													
Has Caps		Logic						True or False		Does the inlet connection have protective caps.													
Inlet Diameter		Number		Inch		mm				The inlet diameter of the breaching inlet.													
Flow Meter										A flow meter is a device that is used to measure the flow rate in a system.		#FlowMeter											
Meter Type		Text						Energy, Gas, Oil, Water, User Defined		Identifies the predefined types of meter from which the type required may be set.													
Purpose		Text						Master, Submaster, Submeter, Other, Unknown		Enumeration defining the purpose of the flow meter occurrence.													
Read Out Type		Text						Dial, Digital, Other, Not Known, Unset		Indication of the form that readout from the meter takes. In the case of a dial read out, this may comprise multiple dials that give a cumulative reading and/or a mechanical odometer.													
Remote Reading		Logic						True or False		Indicates whether the meter has a connection for remote reading through connection of a communication device (set TRUE) or not (set FALSE)													
Energy Meter										Device that measures, indicates and sometimes records, the energy usage in a system.													
Maximum Current		Number		Amps						The maximum allowed current that a device is certified to handle.													
Multiple Tariff		Text								Indicates whether meter has built-in support for multiple tariffs (variable energy cost rates).													
Nominal Current		Number		Amps						The nominal current that is designed to be measured.													
Gas Meter										Device that measures, indicates and sometimes records, the volume of gas that passes through it without interrupting the flow.													
Connection Size		Number		Inch		mm				Defines the size of inlet and outlet pipe connections to the meter.													
Gas Type		Text								Defines the types of gas that may be specified.													
Maximum Flow Rate		Number		Cubic Ft / Min		Liters/Min				Maximum rate of flow which the meter is expected to pass.													
Maximum Pressure Loss		Number		PSI		Pa				Pressure loss expected across the meter under conditions of maximum flow.													
Oil Meter										Device that measures, indicates and sometimes records, the volume of oil that passes through it without interrupting the flow.													
Connection Size		Number		Inch		mm				Defines the size of inlet and outlet pipe connections to the meter.													
Maximum Flow Rate		Number		Cubic Ft / Min		Liters/Min				Maximum rate of flow which the meter is expected to pass.													
Water Meter										Device that measures, indicates and sometimes records, the volume of water that passes through it without interrupting the flow.													
Backflow Preventer Type		Text						Atmospheric Vacuum breaker, Anti Siphon valve, Double Check Backflow Preventer, Pressure Vacuum breaker, Reduced Pressure Backflow Preventer, Other, Not known, Unset		Identifies the type of backflow preventer installed		#FireSuppressionTerminal											
Connection Size		Number		Inch		mm				Defines the size of inlet and outlet pipe connections to the meter.													
Maximum Flow Rate		Number		Cubic Ft / Min		Liters/Min				Maximum rate of flow which the meter is expected to pass.													
Maximum Pressure Loss		Number		PSI		Pa				Pressure loss expected across the meter under conditions of maximum flow.													
Type		Text						Compound, Inferential, Piston, Other, Not Known, Unset		Defines the allowed values for selection of the flow meter operation type.													
Hose Reel										A supporting framework on which a hose may be wound (B56100 155 8201).		#FireSuppressionTerminal											
										Note that the service provided by the hose (water/foam) is determined by the context of the system onto which the hose will be connected													

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Additional		Part 1 - Attribute Description						Part 3 - Example Project-Specific Milestones								
Attribute		Data Type	Units - Imp.	Units - Metric	Option Examples	Commentary	IFC Name	COBie Tag	Estimating	Estimating	LEED Cert.	LEED Cert				
									Est. 1	Bid Pkg.	Check	Submit				
Global Attributes																
Component ID	Text					Part or Equipment Tag										
Condition Status	Text				New, Existing, Demolish, Temporary, User Defined	Status of the element, predominantly used in renovation or retrofitting projects										
Room Number	Text					Room number where component to be/is installed										
Room Name	Text					Room name where component to be/is installed										
Story Number	Text					Floor or level room is located										
Manufacturer Name	Text					The organization that manufactured and/or assembled the item.										
Product Name	Text					The manufacturers model name of the product model (or product line)										
Model Designation	Text					The manufacturers model number or designator of the product model (or product line)										
Target LOD	Text				100, 200, 300, 350, 400											
Current LOD	Text				100, 200, 300, 350, 400											
Component characteristics																
Acquisition Date	Date Time	Date				The date that the manufactured item was purchased.										
Assembly Place	Text					Code defining where the assembly takes place										
Bar Code	Text					The identity of the bar code given to an occurrence of the product.										
Batch Reference	Text					The identity of the batch reference from which an occurrence of a product is taken.										
Production Year	Number	Year				The year of production of the manufactured item.										
Serial Number	Text					The serial number assigned to an occurrence of a product.										
Design Performance																
Service Life						Captures the period of time that an artifact will last.										
Mean Time Between Failure	Number	Days				The average time duration between instances of failure of a product.										
Service Life Duration	Number	Year(s)				The length or duration of a service life.										
Service Life Factors	Text					Captures various factors that impact the expected service life of elements within the system or zone.										
Design Level	Text					Adjustment of the service life resulting from the effect of design level employed.										
Indoor Environment	Text					Adjustment of the service life resulting from the effect of the indoor environment (where appropriate).										
In Use Conditions	Text					Adjustment of the service life resulting from the effect of the conditions in which components are operating.										
Maintenance Level	Text					Adjustment of the service life resulting from the effect of the level or degree of maintenance applied to components.										
Outdoor Environment	Text					Adjustment of the service life resulting from the effect of the outdoor environment (where appropriate)										
Quality Of Components	Text					Adjustment of the service life resulting from the effect of the quality of components used.										
Work Execution Level	Text					Adjustment of the service life resulting from the effect of the quality of work executed.										
Warranty						A written guarantee, issued to the purchaser of an article by its manufacturer, promising to repair or replace it if necessary within a specified period of time										
Exclusions	Text					Items, conditions or actions that may be excluded from the warranty or that may cause the warranty to become void.										
Is Extended Warranty	Logical				True or False	Indication of whether this is an extended warranty whose duration is greater than that normally assigned										
Point Of Contact	Text					The organization that should be contacted for action under the terms of the warranty.										
Warranty Content	Text					The content of the warranty.										
Warranty End Date	Date Time	Date				The date on which the warranty expires.										
Warranty Identifier	Text					The identifier assigned to a warranty.										
Warranty Period	Number	Year(s)				The time duration during which a manufacturer or supplier guarantees or warrants the performance of an artefact.										
Warranty Start Date	Date Time	Date				The date on which the warranty commences.										
Electrical Properties																
Current	Number	Amps				The current that a device is designed to handle.										
Grounded	Logical				True or False	Indicates whether the electrical device has a protective earth connection										
Insulation Class	Text					Insulation standard classes provides basic protection information against electric shock.										
Enclosure Classification	Text					IEC 60529 Classification of degrees of protection provided by enclosures (IP Code).										
Frequency	Number	Hertz				The upper and lower limits of frequency for which the operation of the device is certified.										
Line Conductor	Text				By color: Red, Blue, Yellow or by number 1, 2, 3, etc.	Function of a line conductor to which a device is intended to be connected where L1, L2 and L3 represent the phase lines according to IEC 60446 notation										
Phase	Number				Single or Three	The number of live lines that is intended to be handled by the device.										
Power Factor	Number	None				The ratio between the rated electrical power and the product of the device's rated current and rated voltage										
Amps						The current that a device is designed to handle.										
Voltage						The voltage that a device is designed to handle.										
Item-Specific Attributes																
Battery						A device for storing energy in chemical form so that it can be released as electrical energy.	ifBattery									
Battery Type	Text					The property enumeration defines the types of battery that may be specified within the property set.										
Connected Conductor Function	Text					Function of the conductors to which the load is connected										
Earth Fault1 Pole Maximum State	Number	Amps				Maximum 1 pole earth fault current provided at the point of supply i.e. the fault between 1 phase and PE/PEN.										
Earth Fault1 Pole Minimum State	Number	Amps				Minimum 1 pole earth fault current provided at the point of supply i.e. the fault between 1 phase and PE/PEN.										
Earth Fault1 Pole Power Factor Maximum State	Number	Amps				Power factor of the minimum 1 pole earth fault current provided at the point of supply i.e. the fault between 1 phase and PE/PEN.										
Earth Fault1 Pole Power Factor Minimum State	Number	Amps				Power factor of the minimum 1 pole earth fault current provided at the point of supply i.e. the fault between 1 phase and PE/PEN.										
Nominal Frequency	Number	Hertz				The nominal frequency of the supply.										
Nominal Supply Voltage	Number	Volts				The nominal voltage of the supply.										
Nominal Supply Voltage Offset	Number	Volts				The maximum and minimum allowed voltage of the supply e.g. boundaries of 380V/440V may be applied for a nominal voltage of 400V.										
Short Circuit1 Pole Maximum State	Number	Amps				Maximum 1 pole short circuit current provided at the point of supply i.e. the fault between 1 phase and N.										
Short Circuit1 Pole Minimum State	Number	Amps				Minimum 1 pole short circuit current provided at the point of supply i.e. the fault between 1 phase and N.										
Short Circuit1 Pole Power Factor Maximum State	Number	PF				Power factor of the maximum 1 pole short circuit current provided at the point of supply i.e. the fault between 1 phase and N.										
Short Circuit1 Pole Power Factor Minimum State	Number	PF				Power factor of the minimum 1 pole short circuit current provided at the point of supply i.e. the fault between 1 phase and N.										
Short Circuit2 Pole Minimum State	Number	Amps				Minimum 2 pole short circuit current provided at the point of supply.										
Short Circuit2 Pole Power Factor Minimum State	Number	PF				Power factor of the minimum 2 pole short circuit current provided at the point of supply.										
Short Circuit3 Pole Maximum State	Number	Amps				Maximum 3 pole short circuit current provided at the point of supply.										
Short Circuit3 Pole Power Factor Maximum State	Number	PF				Power factor of the maximum 3 pole short circuit current provided at the point of supply.										
Breaker						A protective device tripping unit breaks an electrical circuit at a separate breaking unit when a stated electric current that passes through the unit is exceeded	ifProtectiveDevice									
Breaker Type	Text					The property enumeration defines the types of breaker that may be specified within the property set.										
Area Verified	Logical				True or False	An indication whether the tripping unit is verified to be applied in EX-environment or not.										
Limiting Terminal Size	Text	Circular Mils (KCM)				The maximum terminal size capacity of the device.										
Old Device	Logical				True or False	Indication whether the protection unit is out-dated or not. If not out-dated, the device is still for sale.										
Standard	Text					The designation of the standard applicable for the definition of the characteristics of the tripping unit.										
Use In Discrimination	Logical				True or False	An indication whether the time/current tripping information can be applied in a discrimination analysis or not.										
Curve																
Breaker Unit Curve	Number, 2-16 digits, Cartesian Coord Set	Amps				A coherent set of attributes representing a curve for let-through energy of a protective device.										
						A curve that establishes the let-through energy of a breaker unit when a particular protective current is applied.										
Nominal Current	Number	Amps				A set of nominal currents in [A] for which the data of this instance is valid.										

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F Metal Buildings

Baseline	This work is licensed under the Creative Commons Attribution-NonCommercial 4.0 International License.	Part 1 - Attribute Description					Part 2 - Example Project-Specific Milestones				
Additional							Estimating	Estimating	LEED Cert.	LEED Cert	
Attribute		Data Type	Units - Imp.	Units - Metric	Option Examples	Commentary	Est. 1	Bid Pkg.	Check	Submittal	
Building Width		Number	ft								
Building Length		Number	ft								
Eave Height		Number	ft								
Roof Type		Text			options: [monoslope, gable, other]						
Roof Slope		Number	#/12			Inches per 12 inches (n/12)					
Target LOD		Text			100, 200, 300, 350, 400						
Current LOD		Text			100, 200, 300, 350, 400						
Primary Framing and Bracing											
	Structural steel materials	Text				ASTM Specification, Grade					
	Frame base fixed	Logical			T/F, 1/0						
	Support Reactions					Table of values					
	Mark ID					Mark identification that correlates with bill of material (i.e., piece mark)					
	Member finish	Text			options: [none, primer, galvanized, other]						
	Fastener materials	Text				ASTM Specification, Grade					
	Fasterner finish	Text			options: [black, zinc electroplated, hot-dipped galvanized, other]						
Secondary Framing											
	Structural steel materials	Text				ASTM Specification, Grade					
	Finish	Text			options: [none, primer, galvanized, other]						
	Mark ID					Mark identification that correlates with bill of material (i.e., piece mark)					
	Fastener materials	Text				ASTM Specification, Grade					
	Fasterner finish	Text			options: [black, zinc electroplated, hot-dipped galvanized, other]						
Cladding and Exterior Trim											
	Roof Panel System	Text			options: [through-fastened, standing seam roof]						
	Wall Panel System	Text			options: [concealed fastener, through-fastened]						
	Roof Panel Materials	Text				ASTM Specification, Grade, thickness, finish, and color					
	Wall Panel Materials	Text				ASTM Specification, Grade, thickness, finish, and color					
	Installation details	Text				Panel laps, crimping, etc. Fastener spacing and edge distance, etc.					
	Mark ID					Mark identification that correlates with bill of material (i.e., piece mark)					
	Fastener materials	Text				ASTM Specification, Grade					
	Fasterner finish	Text			options: [black, zinc electroplated, hot-dipped galvanized, other]						
	Caulk/mastic installation details	Text				field-installed weather-tightness materials and installation instructions					
AISC Shape Type & Size		Text			options: [specific "HSS 6x6x1/4"]						
Fireproofed		Logical			T/F, 1/0						
Weight in pounds/foot		Number									
ASTM Material Grade		Text	Text		options: [A992, etc]						
Coating		Text	Text		options: [galvanized, painted for exterior exposure, etc]						
Architectural Exposed Structural Steel		Logical			T/F, 1/0						
Fabrication Sequence Number		Number				SequenceNumber					
Shop Submittal Parameters						{}					
Date - Issued For Construction		Date Time				{DateIFC}					

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Highway Bridge Steel		
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Baseline Additional	This work is licensed under the Creative Commons Attribution-NonCommercial 4.0 International License	Part 1 - Attribute Description					Part 2 - Example Project-Specific Milestones				
		Data Type	Units - Imp.	Units - Metric	Option Examples	Commentary	Estimating Est. 1	Estimating Bid Pkg.	LEED Cert. Check	LEED Cert Submittal	
Attribute											
AISC Shape Type & Size		Text			options: [specific "HSS 6x6x1/4"]						
Fireproofed		Logical			T/F, 1/0						
Weight in pounds/foot		Number									
ASTM Material Grade		Text			options: [A992, etc]						
Target LOD		Text			100, 200, 300, 350, 400						
Current LOD		Text			100, 200, 300, 350, 400						
Coating		Text			options: [galvanized, painted for exterior exposure, etc]						
Architectural Exposed Structural Steel		Logical			T/F, 1/0						
Fabrication Sequence Number		Number			SequenceNumber						
Shop Submittal Parameters					{}						
Date - Issued For Construction		Date Time			{DateIFC}						
Date - Permitted		Date Time			{DatePermitted}						
Date - recieved for Shop Detailing		Date Time			{DateRecievedForShopDet}						
Date - Detailing Submitted for EOR review \ Out For Aproval (OFA)		Date Time			{DateOutForApproval}						
Date - Final Erection Drawings Aproved for Fab		Date Time			{DateFinalForFab}						
Date - Fabrication Start		Date Time			{DateFabStart}						
Date - Fabrication End		Date Time			{DateFabEnd}						
Date - Fabrication Shipped		Date Time			{DateFabShip}						
Date - Fabrication Received		Date Time			{DateFabRecieved}						
Date - Erection		Date Time			{DateErected}						
Date - Inspected		Date Time			{DateInspected}						

Railroad Bridge Steel		
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Baseline Additional	This work is licensed under the Creative Commons Attribution-NonCommercial 4.0 International License	Part 1 - Attribute Description					Part 2 - Example Project-Specific Milestones				
		Data Type	Units - Imp.	Units - Metric	Option Examples	Commentary	Estimating Est. 1	Estimating Bid Pkg.	LEED Cert. Check	LEED Cert Submittal	
Attribute											
AISC Shape Type & Size		Text			options: [specific "HSS 6x6x1/4"]						
Fireproofed		Logical			T/F, 1/0						
Weight in pounds/foot		Number									
ASTM Material Grade		Text			options: [A992, etc]						
Target LOD		Text			100, 200, 300, 350, 400						
Current LOD		Text			100, 200, 300, 350, 400						
Coating		Text			options: [galvanized, painted for exterior exposure, etc]						
Architectural Exposed Structural Steel		Logical			T/F, 1/0						
Fabrication Sequence Number		Number			SequenceNumber						
Shop Submittal Parameters					{}						
Date - Issued For Construction		Date Time			{DateIFC}						
Date - Permitted		Date Time			{DatePermitted}						
Date - recieved for Shop Detailing		Date Time			{DateRecievedForShopDet}						
Date - Detailing Submitted for EOR review \ Out For Aproval (OFA)		Date Time			{DateOutForApproval}						
Date - Final Erection Drawings Aproved for Fab		Date Time			{DateFinalForFab}						
Date - Fabrication Start		Date Time			{DateFabStart}						
Date - Fabrication End		Date Time			{DateFabEnd}						
Date - Fabrication Shipped		Date Time			{DateFabShip}						
Date - Fabrication Received		Date Time			{DateFabRecieved}						
Date - Erection		Date Time			{DateErected}						
Date - Inspected		Date Time			{DateInspected}						

Bridge Concrete

Baseline		Part 1 - Attribute Description					Part 2 - Example Project-Specific Milestones			
Additional							Estimating	Estimating	LEED Cert.	LEED Cert
Attribute		Data Type	Units - Imp.	Units - Metric	Option Examples	Commentary	Est. 1	Bid Pkg.	Check	Submittal
Member Type		Text			(0) Foundation (1) Beam (2) Column (3) Slab (4) Wall					
Concrete Compression Strength			PSI			Example: 3000 PSI				
Reinforcing Steel Flexure			PSI			Example: 60,000 PSI				
Reinforcing Steel Shear			PSI			Example: 60,000 PSI				
Target LOD		Text			100, 200, 300, 350, 400					
Current LOD		Text			100, 200, 300, 350, 400					
Member Casting Number										
Exterior Exposure		Logical			T/F, 1/0					
Shop Submittal Parameters										
Date - Issued For Construction		Date Time			DateIFC					
Date - Permitted		Date Time			DatePermitted					
Date - recieved for Shop Detailing		Date Time			DateRecievedForShopDet					
Date - Detailing Submitted for EOR review \ Out For Aproval		Date Time			DateOutForAproval					
Date - Final Erection Drawings Aproved for Fab		Date Time			DateFinalForFab					
Date - Fabrication Start		Date Time			DateFabStart					
Date - Fabrication End		Date Time			DateFabEnd					
Date - Fabrication Shipped		Date Time			DateFabShip					
Date - Fabrication Received		Date Time			DateFabRecieved					
Date - Erection		Date Time			DateErected					
Date - Inspected		Date Time			DateInspected					
Finish		Character			A,B,C per ACI 117	Specify by face of concrete				

Highway Bridge Precast

Baseline		Part 1 - Attribute Description					Part 2 - Example Project-Specific Milestones			
Additional							Estimating	Estimating	LEED Cert.	LEED Cert
Attribute		Data Type	Units - Imp.	Units - Metric	Option Examples	Commentary	Est. 1	Bid Pkg.	Check	Submittal
Member Type		Text			(0) Foundation (1) Beam (2) Column (3) Slab (4) Wall					
Concrete Compression Strength			PSI			Example: 3000 PSI				
Reinforcing Steel Flexure			PSI			Example: 60,000 PSI				
Reinforcing Steel Shear			PSI			Example: 60,000 PSI				
Target LOD		Text			100, 200, 300, 350, 400					
Current LOD		Text			100, 200, 300, 350, 400					
Member Casting Number										
Exterior Exposure		Logical			T/F, 1/0					
Shop Submittal Parameters										
Date - Issued For Construction		Date Time			DateIFC					
Date - Permitted		Date Time			DatePermitted					
Date - recieved for Shop Detailing		Date Time			DateRecievedForShopDet					
Date - Detailing Submitted for EOR review \ Out For Aproval		Date Time			DateOutForAproval					
Date - Final Erection Drawings Aproved for Fab		Date Time			DateFinalForFab					
Date - Fabrication Start		Date Time			DateFabStart					
Date - Fabrication End		Date Time			DateFabEnd					
Date - Fabrication Shipped		Date Time			DateFabShip					
Date - Fabrication Received		Date Time			DateFabRecieved					
Date - Erection		Date Time			DateErected					
Date - Inspected		Date Time			DateInspected					
Finish		Character			A,B,C per ACI 117	Specify by face of concrete				

Railroad Bridge Precast

Baseline		Part 1 - Attribute Description					Part 2 - Example Project-Specific Milestones			
Additional							Estimating	Estimating	LEED Cert.	LEED Cert
Attribute		Data Type	Units - Imp.	Units - Metric	Option Examples	Commentary	Est. 1	Bid Pkg.	Check	Submittal
Member Type		Number			(0) Foundation (1) Beam (2) Column (3) Slab (4) Wall					
Concrete Compression Strength		Number	PSI			Example: 3000 PSI				
Reinforcing Steel Flexure		Number	PSI			Example: 60,000 PSI				
Reinforcing Steel Shear		Number	PSI			Example: 60,000 PSI				
Target LOD		Text			100, 200, 300, 350, 400					
Current LOD		Text			100, 200, 300, 350, 400					
Member Casting Number										
Exterior Exposure		Logical			T/F, 1/0					
Shop Submittal Parameters										
Date - Issued For Construction		Date Time				DateIFC				
Date - Permitted		Date Time				DatePermitted				
Date - recieved for Shop Detailing		Date Time				DateRecievedForShopDet				
Date - Detailing Submitted for EOR review \ Out For Aproval		Date Time				DateOutForAproval				
Date - Final Erection Drawings Aproved for Fab		Date Time				DateFinalForFab				
Date - Fabrication Start		Date Time				DateFabStart				
Date - Fabrication End		Date Time				DateFabEnd				
Date - Fabrication Shipped		Date Time				DateFabShip				
Date - Fabrication Received		Date Time				DateFabRecieved				
Date - Erection		Date Time				DateErected				
Date - Inspected		Date Time				DateInspected				
Finish		Text			A,B,C per ACI 117	Specify by face of concrete				