CoordinationView 2.0 / Import

Structural

Siemens Digital Industries

NX

09/02/2023

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Introduction

Siemens NX software is a flexible and powerful integrated solution that helps you deliver better designs faster and more efficiently. NX delivers the next generation of design, simulation, and manufacturing solutions that enable companies to realize the value of the digital twin. Supporting every aspect of product development, from concept design through engineering, and construction, NX gives you an integrated toolset that coordinates disciplines, preserves data integrity and design intent, and streamlines the entire process.

NX for Design has the features, performance, and capabilities to help you complete your project faster than ever before. NX for Design enables you to deliver projects using more virtual models and avoid costly on-site construction issues. This leads to projects that are on time, on budget, and improved project quality.

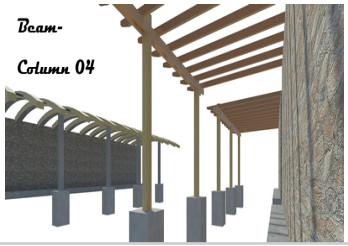
Siemens NX-IFC translator enables NX to collaborate with other AEC software tools with high-fidelity. BIM geometry and properties are accurately preserved during import.

Testlist

Name test	concepts total	manually checked		
		■	■	■
BeamColumn 04 / 2x3	47	42		5
CharsetTest-01A / 2x3	2	2		
CoveringFurnishing-01 / 2x3	57	41	1	15
CurtainWall-01 / 2x3	29	26		3
Door 01 / 2x3	22	18		4
DuplexHouse_Electrical / 2x3	65	46		19
DuplexHouse_Heating / 2x3	56	38		18
DuplexHouse_Ventilation / 2x3	44	29		15
Member 01A / 2x3	10	9		1
Pile 01 / 2x3	19	16		3
RampRailing-01 / 2x3	28	25		3
Reinforcement-01 / 2x3	94	85		9
Roof 01 / 2x3	15	13		2
Site 02 / 2x3	13	13		
Slab 02A / 2x3	24	20		4
Space_01MEP / 2x3	15	14		1
StairSlab-01 / 2x3	19	17		2
UnitTest-01S / 2x3	3	3		
WallSlab 03 / 2x3	32	31		1
WallStandardCase 03A / 2x3	9	9		
Window 01 / 2x3	22	18		4

Concepts

BeamColumn 04 / 2x3



BeamColumn 04 / 2x3

103 IfcBeam	company statement
001 GUIDs	■
002 History	■
010 Naming	■
020 Placement	
020-2 Placement Relative	■
030 Geometry	
030-6 Geometry Body	
030-6-1 Geometry SweptSolid	■
030-6-9 Geometry Mapped	■
070 Voiding	
070-1 Voiding Geometry Explicit	■
070-2 Voiding Geometry Mapped	■
070-3 Voiding Geometry SweptSolid	■
130 Grouping	
130-1 Grouping General	■
200 Material	
200-1 Single Material	■

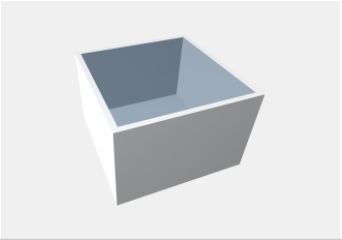
■ Supported ■ Restricted ■ Not Supported

210 Property Set		
210-1 Property Set IFC Common	■	
210-3 Property Set User Defined	■	
300 Type		
300-1 Type Geometry	■	
300-2 Type Naming	■	
300-3 Type Material	■	
300-5 Type Property Set	■	
104 IfcColumn	*company statement*	*BeamColumn 04 / 2x3*
001 GUIDs	■	
002 History	■	
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
030-6-9 Geometry Mapped	■	
070 Voiding		
070-1 Voiding Geometry Explicit	■	
070-2 Voiding Geometry Mapped	■	
070-3 Voiding Geometry SweptSolid	■	
130 Grouping		
130-1 Grouping General	■	

200 Material		
200-1 Single Material	■	
210 Property Set		
210-2 Property Set IFC any	■	
300 Type		
300-1 Type Geometry	■	
300-2 Type Naming	■	
300-3 Type Material	■	
300-5 Type Property Set	■	
403 IfcFooting	*company statement*	*BeamColumn 04 / 2x3*
001 GUIDs	■	
002 History	■	
010 Naming	■	
020 Placement		
020-1 Placement Relative	■	
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
030-6-9 Geometry Mapped	■	
130 Grouping		
130-1 Grouping General	■	
200 Material		
200-1 Single Material	■	
210 Property Set		
210-2 Property Set IFC any	■	

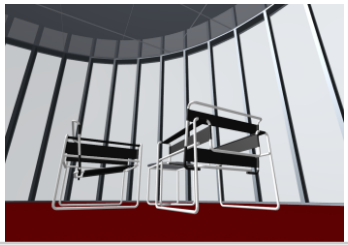
300 Type		
300-1 Type Geometry		
300-2 Type Naming		
300-3 Type Material		
300-5 Type Property Set		
General	*company statement*	*BeamColumn 04 / 2x3*
_G4 Remarks		

CharsetTest-01A / 2x3



General	*company statement*	*CharsetTest-01A / 2x3*
_G1 Character sets	■	
_G4 Remarks	■	

CoveringFurnishing-01 / 2x3



210 IfcFlowTerminal	*company statement*	*CoveringFurnishing-01 / 2x3*
001 GUIDs	■	
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-6 Geometry Body		
030-6-5 Geometry Explicit	■	
030-6-9 Geometry Mapped	■	
040 Presentation		
040-1 Geometric Presentation	■	
050 CAD Layer	■	
120 Spatial Containment	■	
210 Property Set		
210-1 Property Set IFC Common	■	
210-6 Property Set IFC any	■	
210-9 Property Set User Defined	■	

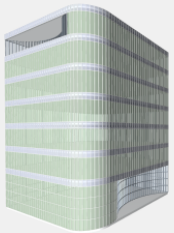
300 Type		
300-1 Type Geometry		
300-2 Type Naming		
300-3 Type Material		
300-5 Type Property Set		
303 IfcCovering	*company statement*	*CoveringFurnishing-01 / 2x3*
010 Naming		
020 Placement		
020-2 Placement Relative		
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid		
030-6-9 Geometry Mapped		
040 Presentation		
040-1 Geometric Presentation		
050 CAD Layer		
070 Voiding		
120 Spatial Containment		
200 Material		
200-1 Single Material		
200-3 Material Layer Set		
210 Property Set		
210-1 Property Set IFC Common		

300 Type		
300-1 Type Geometry	■	
300-2 Type Naming	■	
300-3 Type Material	■	
300-5 Type Property Set	■	
304 IfcFurnishingElement	*company statement*	*CoveringFurnishing-01 / 2x3*
001 GUIDs	■	
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-6 Geometry Body		
030-6-5 Geometry Explicit	■	
030-6-9 Geometry Mapped	■	
040 Presentation		
040-1 Geometric Presentation	■	
050 CAD Layer	■	
120 Spatial Containment	■	
200 Material		
200-1 Single Material	■	
200-5 Material List	■	
210 Property Set		
210-6 Property Set IFC any	■	
210-9 Property Set User Defined	■	

300 Type		
300-1 Type Geometry	■	
300-2 Type Naming	■	
300-3 Type Material	■	
300-5 Type Property Set	■	
505 IfcSpace	*company statement*	*CoveringFurnishing-01 / 2x3*
030 Geometry		
030-3 Geometry FootPrint	■	
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
120 Spatial Containment	■	
130 Grouping		
130-3 Grouping to Zones	■	
230 Classification	■	
508 IfcZone	*company statement*	*CoveringFurnishing-01 / 2x3*
001 GUIDs	■	
002 History	■	
010 Naming	■	
130 Grouping		
130-5 Is Group	■	
210 Property Set		
210-1 Property Set IFC Common	■	
210-9 Property Set User Defined	■	
General	*company statement*	*CoveringFurnishing-01 / 2x3*
_G4 Remarks	■	

■ Supported ■ Restricted ■ Not Supported

CurtainWall-01 / 2x3



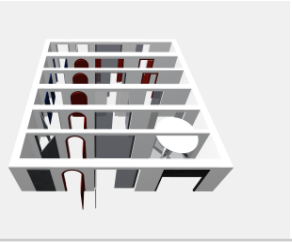
109 IfcCurtainWall	company statement	CurtainWall-01 / 2x3
001 GUIDs	■	
002 History	■	
010 Naming	■	
020 Placement		
020-1 Placement Relative	■	
030 Geometry		
030-6 Geometry Body		
030-6-5 Geometry Explicit	■	
030-9 Geometry By Components	■	
040 Presentation		
040-1 Geometric Presentation	■	
050 CAD Layer	■	
100 Element Aggregation		
100-2 Element Decomposition	■	
120 Spatial Containment	■	
200 Material		
200-1 Single Material	■	
200-5 Material List	■	

210 Property Set			
210-1 Property Set IFC Common	■		
210-3 Property Set User Defined	■		
300 Type			
300-1 Type Geometry	■		
300-2 Type Naming	■		
300-3 Type Material	■		
300-5 Type Property Set	■		
501 IfcProject		*company statement*	*CurtainWall-01 / 2x3*
010 Naming	■		
502 IfcSite		*company statement*	*CurtainWall-01 / 2x3*
010 Naming	■		
060 Location			
060-1 Geographic Location	■		
060-2 Address	■		
503 IfcBuilding		*company statement*	*CurtainWall-01 / 2x3*
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
504 IfcBuildingStorey		*company statement*	*CurtainWall-01 / 2x3*
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
060 Location			
060-4 Storey Elevation	■		

■ Supported ■ Restricted ■ Not Supported

210 Property Set		
210-1 Property Set IFC Common	■	
General	*company statement*	*CurtainWall-01 / 2x3*
_G4 Remarks	■	

Door 01 / 2x3



302 IfcDoor	company statement	Door 01 / 2x3
001 GUIDs	■	
002 History	■	
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-5 Geometry Profile	■	
030-6 Geometry Body		
030-6-5 Geometry Explicit	■	
030-6-9 Geometry Mapped	■	
040 Presentation		
040-1 Geometric Presentation	■	
050 CAD Layer	■	
080 Filling		
080-2 Is Filling	■	
120 Spatial Containment	■	
200 Material		
200-1 Single Material	■	
200-5 Material List	■	

■ Supported ■ Restricted ■ Not Supported

210 Property Set		
210-1 Property Set IFC Common	■	
210-2 Property Set IFC any	■	
210-3 Property Set User Defined	■	
300 Type		
300-1 Type Geometry	■	
300-2 Type Naming	■	
300-3 Type Material	■	
300-5 Type Property Set	■	
300-6 Type Predefined Properties		
300-6-1 Type Predefined Properties Door	■	
General	*company statement*	*Door 01 / 2x3*
_G4 Remarks	■	

DuplexHouse_Electrical / 2x3

204 IfcEnergyConversionDevice	company statement	DuplexHouse_Electrical / 2x3
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-6 Geometry Body		
030-6-5 Geometry Explicit	■	
030-6-9 Geometry Mapped	■	
100 Element Aggregation		
100-4 Port Assignment	■	
110 Connectivity		
110-5 Connectivity by Ports	■	
120 Spatial Containment	■	
130 Grouping		
130-2 Grouping to Systems	■	
300 Type		
300-1 Type Geometry	■	
300-2 Type Naming	■	
205 IfcFlowController	company statement	DuplexHouse_Electrical / 2x3
010 Naming	■	

■ Supported ■ Restricted ■ Not Supported

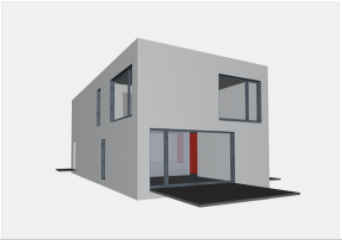
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit	■		
030-6-9 Geometry Mapped	■		
100 Element Aggregation			
100-4 Port Assignment	■		
110 Connectivity			
110-5 Connectivity by Ports	■		
120 Spatial Containment	■		
130 Grouping			
130-2 Grouping to Systems	■		
300 Type			
300-1 Type Geometry	■		
300-2 Type Naming	■		
206 IfcFlowFitting		*company statement*	*DuplexHouse_Electrical / 2x3*
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit	■		
030-6-9 Geometry Mapped	■		

100 Element Aggregation		
100-4 Port Assignment		
110 Connectivity		
110-5 Connectivity by Ports		
120 Spatial Containment		
130 Grouping		
130-2 Grouping to Systems		
300 Type		
300-1 Type Geometry		
300-2 Type Naming		
208 IfcFlowSegment	*company statement*	*DuplexHouse_Electrical / 2x3*
010 Naming		
020 Placement		
020-2 Placement Relative		
030 Geometry		
030-6 Geometry Body		
030-6-5 Geometry Explicit		
030-6-9 Geometry Mapped		
040 Presentation		
040-1 Geometric Presentation		
100 Element Aggregation		
100-4 Port Assignment		
110 Connectivity		
110-5 Connectivity by Ports		
120 Spatial Containment		

130 Grouping		
130-2 Grouping to Systems	■	
300 Type		
300-1 Type Geometry	■	
300-2 Type Naming	■	
210 IfcFlowTerminal	*company statement*	*DuplexHouse_Electrical / 2x3*
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-6 Geometry Body		
030-6-5 Geometry Explicit	■	
030-6-9 Geometry Mapped	■	
040 Presentation		
040-1 Geometric Presentation	■	
050 CAD Layer	■	
100 Element Aggregation		
100-4 Port Assignment	■	
110 Connectivity		
110-5 Connectivity by Ports	■	
120 Spatial Containment	■	
130 Grouping		
130-2 Grouping to Systems	■	

210 Property Set			
210-1 Property Set IFC Common	■		
210-6 Property Set IFC any	■		
210-9 Property Set User Defined	■		
300 Type			
300-1 Type Geometry	■		
300-2 Type Naming	■		
501 IfcProject		company statement	DuplexHouse_Electrical / 2x3
010 Naming	■		
503 IfcBuilding		company statement	DuplexHouse_Electrical / 2x3
010 Naming	■		
504 IfcBuildingStorey		company statement	DuplexHouse_Electrical / 2x3
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
150 Spatial Aggregation			
150-1 Spatial Composition	■		
507 IfcSystem		company statement	DuplexHouse_Electrical / 2x3
010 Naming	■		
130 Grouping			
130-2 Grouping to Systems	■		
130-5 Is Group	■		
General		company statement	DuplexHouse_Electrical / 2x3
_G4 Remarks	■		

DuplexHouse_Heating / 2x3



204 IfcEnergyConversionDevice	company statement	DuplexHouse_Heating / 2x3
010 Naming	■	
030 Geometry		
030-6 Geometry Body		
030-6-5 Geometry Explicit	■	
030-6-9 Geometry Mapped	■	
040 Presentation		
040-1 Geometric Presentation	■	
100 Element Aggregation		
100-4 Port Assignment	■	
110 Connectivity		
110-5 Connectivity by Ports	■	
130 Grouping		
130-2 Grouping to Systems	■	
300 Type		
300-1 Type Geometry	■	
300-5 Type Property Set	■	
205 IfcFlowController	company statement	DuplexHouse_Heating / 2x3
010 Naming	■	

■ Supported ■ Restricted ■ Not Supported

030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit			
030-6-9 Geometry Mapped			
040 Presentation			
040-1 Geometric Presentation			
100 Element Aggregation			
100-4 Port Assignment			
110 Connectivity			
110-5 Connectivity by Ports			
130 Grouping			
130-2 Grouping to Systems			
300 Type			
300-1 Type Geometry			
300-5 Type Property Set			
206 IfcFlowFitting	*company statement*		*DuplexHouse_Heating / 2x3*
010 Naming			
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit			
030-6-9 Geometry Mapped			
040 Presentation			
040-1 Geometric Presentation			
100 Element Aggregation			
100-4 Port Assignment			

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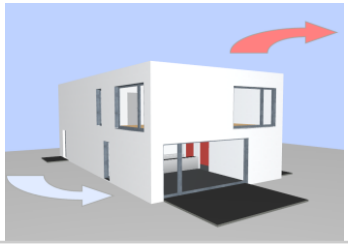
110 Connectivity			
110-5 Connectivity by Ports			
130 Grouping			
130-2 Grouping to Systems			
300 Type			
300-1 Type Geometry			
300-5 Type Property Set			
207 IfcFlowMovingDevice		*company statement*	*DuplexHouse_Heating / 2x3*
010 Naming			
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit			
030-6-9 Geometry Mapped			
040 Presentation			
040-1 Geometric Presentation			
100 Element Aggregation			
100-4 Port Assignment			
110 Connectivity			
110-5 Connectivity by Ports			
130 Grouping			
130-2 Grouping to Systems			
300 Type			
300-1 Type Geometry			
300-5 Type Property Set			
208 IfcFlowSegment		*company statement*	*DuplexHouse_Heating / 2x3*

010 Naming	■		
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
030-6-5 Geometry Explicit	■		
030-6-9 Geometry Mapped	■		
040 Presentation			
040-1 Geometric Presentation	■		
100 Element Aggregation			
100-4 Port Assignment	■		
110 Connectivity			
110-5 Connectivity by Ports	■		
130 Grouping			
130-2 Grouping to Systems	■		
300 Type			
300-1 Type Geometry	■		
300-5 Type Property Set	■		
210 IfcFlowTerminal		*company statement*	*DuplexHouse_Heating / 2x3*
010 Naming	■		
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit	■		
030-6-9 Geometry Mapped	■		
040 Presentation			
040-1 Geometric Presentation	■		

■ Supported ■ Restricted ■ Not Supported

100 Element Aggregation		
100-4 Port Assignment		
110 Connectivity		
110-5 Connectivity by Ports		
130 Grouping		
130-2 Grouping to Systems		
300 Type		
300-1 Type Geometry		
300-5 Type Property Set		
General	*company statement*	*DuplexHouse_Heating / 2x3*
_G4 Remarks		

DuplexHouse_Ventilation / 2x3



206 IfcFlowFitting	company statement	DuplexHouse_Ventilation / 2x3
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
030-6-5 Geometry Explicit	■	
030-6-9 Geometry Mapped	■	
040 Presentation		
040-1 Geometric Presentation	■	
100 Element Aggregation		
100-4 Port Assignment	■	
110 Connectivity		
110-5 Connectivity by Ports	■	
120 Spatial Containment	■	
130 Grouping		
130-2 Grouping to Systems	■	

207 IfcFlowMovingDevice	company statement	DuplexHouse_Ventilation / 2x3
010 Naming	■	

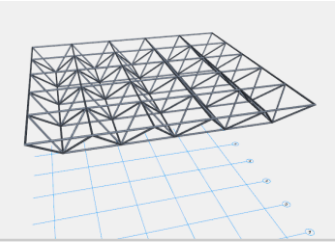
■ Supported ■ Restricted ■ Not Supported

020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
030-6-5 Geometry Explicit	■	
030-6-9 Geometry Mapped	■	
040 Presentation		
040-1 Geometric Presentation	■	
100 Element Aggregation		
100-4 Port Assignment	■	
110 Connectivity		
110-5 Connectivity by Ports	■	
120 Spatial Containment	■	
130 Grouping		
130-2 Grouping to Systems	■	
208 IfcFlowSegment	*company statement*	*DuplexHouse_Ventilation / 2x3*
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
030-6-5 Geometry Explicit	■	
030-6-9 Geometry Mapped	■	

040 Presentation	
040-1 Geometric Presentation	■
100 Element Aggregation	
100-4 Port Assignment	■
110 Connectivity	
110-5 Connectivity by Ports	■
120 Spatial Containment	■
130 Grouping	
130-2 Grouping to Systems	■
210 IfcFlowTerminal	*company statement* — *DuplexHouse_Ventilation / 2x3*
010 Naming	■
020 Placement	
020-2 Placement Relative	■
030 Geometry	
030-6 Geometry Body	
030-6-1 Geometry SweptSolid	■
030-6-5 Geometry Explicit	■
030-6-9 Geometry Mapped	■
040 Presentation	
040-1 Geometric Presentation	■
100 Element Aggregation	
100-4 Port Assignment	■
110 Connectivity	
110-5 Connectivity by Ports	■
120 Spatial Containment	■

130 Grouping			
130-2 Grouping to Systems			
507 IfcSystem	company statement		DuplexHouse_Ventilation / 2x3
010 Naming			
130 Grouping			
130-5 Is Group			
250 System Assignment			
250-2 Services Spatial Element			
General	company statement		DuplexHouse_Ventilation / 2x3
_G4 Remarks			

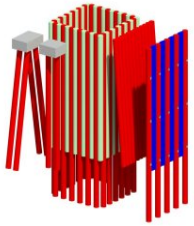
Member 01A / 2x3



401 IfcMember	*company statement*	*Member 01A / 2x3*
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
030-6-2 Geometry Clipping	■	
040 Presentation		
040-1 Geometric Presentation	■	
040-2 Material Presentation	■	
120 Spatial Containment	■	
200 Material		
200-1 Single Material	■	
300 Type		
300-1 Type Geometry	■	

General	*company statement*	*Member 01A / 2x3*
_G4 Remarks	■	

Pile 01 / 2x3

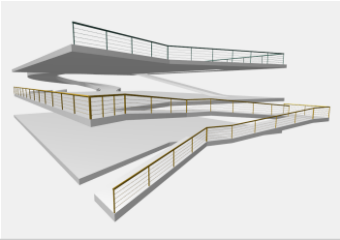


404 IfcPile	company statement	Pile 01 / 2x3
001 GUIDs	■	
002 History	■	
010 Naming	■	
020 Placement		
020-1 Placement Relative	■	
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
030-6-2 Geometry Clipping	■	
030-6-9 Geometry Mapped	■	
040 Presentation		
040-1 Geometric Presentation	■	
040-2 Material Presentation	■	
050 CAD Layer	■	
070 Voiding		
070-3 Voiding Geometry SweptSolid	■	
100 Element Aggregation		
100-2 Element Decomposition	■	
120 Spatial Containment	■	

■ Supported ■ Restricted ■ Not Supported

200 Material		
200-1 Single Material	■	
210 Property Set		
210-3 Property Set User Defined	■	
300 Type		
300-1 Type Geometry	■	
300-3 Type Material	■	
300-5 Type Property Set	■	
General	*company statement*	*Pile 01 / 2x3*
_G4 Remarks	■	

RampRailing-01 / 2x3

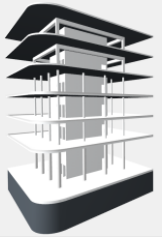


107 IfcRamp	company statement	RampRailing-01 / 2x3
001 GUIDs	■	
002 History	■	
010 Naming	■	
020 Placement		
020-1 Placement Relative	■	
030 Geometry		
030-6 Geometry Body		
030-6-5 Geometry Explicit	■	
030-9 Geometry By Components	■	
040 Presentation		
040-1 Geometric Presentation	■	
050 CAD Layer	■	
100 Element Aggregation		
100-2 Element Decomposition	■	
120 Spatial Containment	■	
200 Material		
200-1 Single Material	■	

210 Property Set			
210-1 Property Set IFC Common	■		
210-3 Property Set User Defined	■		
108 IfcRailing		*company statement*	*RampRailing-01 / 2x3*
001 GUIDs	■		
002 History	■		
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
030-6-5 Geometry Explicit	■		
030-6-9 Geometry Mapped	■		
040 Presentation			
040-1 Geometric Presentation	■		
050 CAD Layer	■		
120 Spatial Containment	■		
200 Material			
200-1 Single Material	■		
200-5 Material List	■		
210 Property Set			
210-1 Property Set IFC Common	■		
210-3 Property Set User Defined	■		
General		*company statement*	*RampRailing-01 / 2x3*

_G4 Remarks	

Reinforcement-01 / 2x3



101 IfcWallStandardCase	*company statement*	*Reinforcement-01 / 2x3*
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
120 Spatial Containment	■	
103 IfcBeam	*company statement*	*Reinforcement-01 / 2x3*
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
120 Spatial Containment	■	
104 IfcColumn	*company statement*	*Reinforcement-01 / 2x3*
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	

■ Supported ■ Restricted ■ Not Supported

120 Spatial Containment	■		
105 IfcSlab		company statement	Reinforcement-01 / 2x3
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
120 Spatial Containment	■		
403 IfcFooting		company statement	Reinforcement-01 / 2x3
010 Naming	■		
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
040 Presentation			
040-1 Geometric Presentation	■		
050 CAD Layer	■		
120 Spatial Containment	■		
210 Property Set			
210-3 Property Set User Defined	■		
407 IfcDiscreteAccessory		company statement	Reinforcement-01 / 2x3
001 GUIDs	■		
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		

030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit			
030-6-9 Geometry Mapped			
040 Presentation			
040-1 Geometric Presentation			
050 CAD Layer			
120 Spatial Containment			
200 Material			
200-1 Single Material			
210 Property Set			
210-9 Property Set User Defined			
300 Type			
300-1 Type Geometry			
300-2 Type Naming			
300-3 Type Material			
300-5 Type Property Set			
408 IfcElementAssembly	*company statement*	*Reinforcement-01 / 2x3*	
001 GUIDs			
010 Naming			
020 Placement			
020-2 Placement Relative			
030 Geometry			
030-6 Geometry Body			
030-9 Geometry By Components			

040 Presentation		
040-1 Geometric Presentation	■	
050 CAD Layer	■	
100 Element Aggregation		
100-2 Element Decomposition	■	
120 Spatial Containment	■	
210 Property Set		
210-9 Property Set User Defined	■	
409 IfcReinforcingBar	*company statement*	*Reinforcement-01 / 2x3*
001 GUIDs	■	
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-6 Geometry Body		
030-6-4 Geometry AdvancedSweptSolid	■	
030-6-5 Geometry Explicit	■	
030-6-9 Geometry Mapped	■	
040 Presentation		
040-1 Geometric Presentation	■	
050 CAD Layer	■	
120 Spatial Containment	■	
200 Material		
200-1 Single Material	■	

210 Property Set		
210-9 Property Set User Defined	■	
300 Type		
300-1 Type Geometry	■	
300-2 Type Naming	■	
300-3 Type Material	■	
300-5 Type Property Set	■	
410 IfcReinforcingMesh	*company statement*	*Reinforcement-01 / 2x3*
001 GUIDs	■	
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-6 Geometry Body		
030-6-4 Geometry AdvancedSweptSolid	■	
030-6-5 Geometry Explicit	■	
030-6-9 Geometry Mapped	■	
040 Presentation		
040-1 Geometric Presentation	■	
050 CAD Layer	■	
120 Spatial Containment	■	
200 Material		
200-1 Single Material	■	
210 Property Set		
210-9 Property Set User Defined	■	

300 Type		
300-1 Type Geometry	■	
300-2 Type Naming	■	
300-3 Type Material	■	
300-5 Type Property Set	■	
501 IfcProject	*company statement*	*Reinforcement-01 / 2x3*
001 GUIDs	■	
002 History	■	
005 Project Units		
005-1 Project Metric Units	■	
008 Representation Context		
008-1 Representation Main Context	■	
008-2 Representation Sub Context		
008-2-2 Representation Sub Context 3D	■	
010 Naming	■	
150 Spatial Aggregation		
150-2 Spatial Decomposition	■	
503 IfcBuilding	*company statement*	*Reinforcement-01 / 2x3*
001 GUIDs	■	
002 History	■	
010 Naming	■	
020 Placement		
020-1 Placement Absolute	■	
060 Location		
060-2 Address	■	

■ Supported ■ Restricted ■ Not Supported

150 Spatial Aggregation		
150-1 Spatial Composition	■	
150-2 Spatial Decomposition	■	
504 IfcBuildingStorey	*company statement*	*Reinforcement-01 / 2x3*
001 GUIDs	■	
002 History	■	
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
060 Location		
060-4 Storey Elevation	■	
120 Spatial Containment	■	
150 Spatial Aggregation		
150-1 Spatial Composition	■	
150-2 Spatial Decomposition	■	
General	*company statement*	*Reinforcement-01 / 2x3*
_G4 Remarks	■	

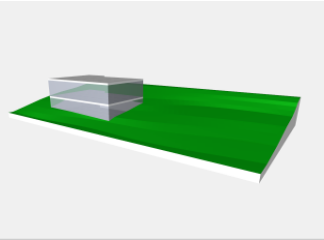
Roof 01 / 2x3

101 IfcWallStandardCase	company statement	Roof 01 / 2x3
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
030-6-2 Geometry Clipping	■	
105 IfcSlab	company statement	Roof 01 / 2x3
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
030-6-2 Geometry Clipping	■	
030-6-9 Geometry Mapped	■	
070 Voiding		
070-3 Voiding Geometry SweptSolid	■	
080 Filling		
080-1 Has Filling		
080-1-2 Has Filling Window	■	
200 Material		
200-2 Material Layer Set	■	
110 IfcRoof	company statement	Roof 01 / 2x3
030 Geometry		
030-1 Geometry Box	■	

■ Supported ■ Restricted ■ Not Supported

040 Presentation		
040-1 Geometric Presentation	■	
040-2 Material Presentation	■	
100 Element Aggregation		
100-2 Element Decomposition	■	
120 Spatial Containment	■	
200 Material		
200-1 Single Material	■	
General	*company statement*	*Roof 01 / 2x3*
_G4 Remarks	■	

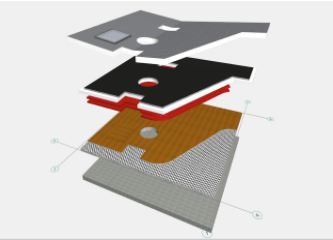
Site 02 / 2x3



502 IfcSite	*company statement*	*Site 02 / 2x3*
010 Naming	■	
020 Placement		
020-1 Placement Absolute	■	
030 Geometry		
030-3 Geometry FootPrint	■	
030-6 Geometry Body		
030-6-5 Geometry Explicit	■	
150 Spatial Aggregation		
150-1 Spatial Composition	■	
150-2 Spatial Decomposition	■	
210 Property Set		
210-9 Property Set User Defined	■	
503 IfcBuilding	*company statement*	*Site 02 / 2x3*
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
150 Spatial Aggregation		
150-1 Spatial Composition	■	
150-2 Spatial Decomposition	■	

210 Property Set		
210-1 Property Set IFC Common		
General	*company statement*	*Site 02 / 2x3*
_G4 Remarks		

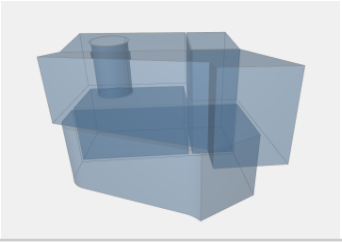
Slab 02A / 2x3



105 IfcSlab	company statement	Slab 02A / 2x3
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-1 Geometry Box	■	
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
030-6-2 Geometry Clipping	■	
030-6-5 Geometry Explicit	■	
030-6-9 Geometry Mapped	■	
070 Voiding		
070-1 Voiding Geometry Explicit	■	
070-2 Voiding Geometry Mapped	■	
070-3 Voiding Geometry SweptSolid	■	
080 Filling		
080-1 Has Filling		
080-1-1 Has Filling Door	■	
080-1-2 Has Filling Window	■	
120 Spatial Containment	■	

130 Grouping		
130-1 Grouping General		
200 Material		
200-1 Single Material		
200-2 Material Layer Set		
210 Property Set		
210-1 Property Set IFC Common		
210-2 Property Set IFC any		
210-3 Property Set User Defined		
300 Type		
300-1 Type Geometry		
300-2 Type Naming		
300-3 Type Material		
300-5 Type Property Set		
General	*company statement*	*Slab 02A / 2x3*
_G4 Remarks		

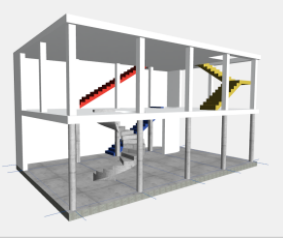
Space_01MEP / 2x3



111 IfcBuildingElementProxy	company statement	Space_01MEP / 2x3
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
210 Property Set		
210-2 Property Set IFC any	■	
505 IfcSpace	company statement	Space_01MEP / 2x3
001 GUIDs	■	
002 History	■	
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
030-6-2 Geometry Clipping	■	

040 Presentation		
040-1 Geometric Presentation		
050 CAD Layer		
150 Spatial Aggregation		
150-1 Spatial Composition		
210 Property Set		
210-6 Property Set IFC any		
General	*company statement*	*Space_01MEP / 2x3*
_G4 Remarks		

StairSlab-01 / 2x3



105 IfcSlab	company statement	StairSlab-01 / 2x3
001 GUIDs	■	
002 History	■	
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
040 Presentation		
040-1 Geometric Presentation	■	
040-2 Material Presentation	■	
070 Voiding		
070-3 Voiding Geometry SweptSolid	■	

106 IfcStair	company statement	StairSlab-01 / 2x3
001 GUIDs	■	
002 History	■	
010 Naming	■	
020 Placement		
020-1 Placement Relative	■	

030 Geometry		
030-6 Geometry Body		
030-6-5 Geometry Explicit	■	
030-9 Geometry By Components	■	
040 Presentation		
040-1 Geometric Presentation	■	
050 CAD Layer	■	
100 Element Aggregation		
100-2 Element Decomposition	■	
120 Spatial Containment	■	
200 Material		
200-1 Single Material	■	
210 Property Set		
210-1 Property Set IFC Common	■	
General	*company statement*	*StairSlab-01 / 2x3*
_G4 Remarks	■	

UnitTest-01S / 2x3

501 IfcProject	*company statement*	*UnitTest-01S / 2x3*
005 Project Units		
005-1 Project Metric Units	■	
005-2 Project Imperial Units	■	
General	*company statement*	*UnitTest-01S / 2x3*
_G4 Remarks	■	

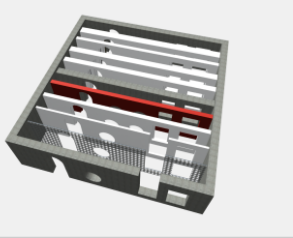
WallSlab 03 / 2x3

102 IfcWall	company statement	WallSlab 03 / 2x3
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-9 Geometry By Components	■	
070 Voiding		
070-3 Voiding Geometry SweptSolid	■	
100 Element Aggregation		
100-2 Element Decomposition	■	
210 Property Set		
210-1 Property Set IFC Common	■	
105 IfcSlab	*company statement*	*WallSlab 03 / 2x3*
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-9 Geometry By Components	■	
100 Element Aggregation		
100-2 Element Decomposition	■	

501 IfcProject	*company statement*	*WallSlab 03 / 2x3*
001 GUIDs	■	
002 History	■	
005 Project Units		
005-1 Project Metric Units	■	
008 Representation Context		
008-1 Representation Main Context	■	
008-2 Representation Sub Context		
008-2-2 Representation Sub Context 3D	■	
010 Naming	■	
150 Spatial Aggregation		
150-2 Spatial Decomposition	■	
503 IfcBuilding	*company statement*	*WallSlab 03 / 2x3*
001 GUIDs	■	
002 History	■	
010 Naming	■	
020 Placement		
020-1 Placement Absolute	■	
150 Spatial Aggregation		
150-1 Spatial Composition	■	
150-2 Spatial Decomposition	■	
504 IfcBuildingStorey	*company statement*	*WallSlab 03 / 2x3*
001 GUIDs	■	
002 History	■	
010 Naming	■	

020 Placement		
020-2 Placement Relative	■	
150 Spatial Aggregation		
150-1 Spatial Composition	■	
150-2 Spatial Decomposition	■	
505 IfcSpace	*company statement*	*WallSlab 03 / 2x3*
010 Naming	■	
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
General	*company statement*	*WallSlab 03 / 2x3*
_G4 Remarks	■	

WallStandardCase 03A / 2x3



101 IfcWallStandardCase	company statement	WallStandardCase 03A / 2x3
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-2 Geometry Axis	■	
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
070 Voiding		
070-1 Voiding Geometry SweptSolid	■	
070-2 Voiding Geometry Explicit	■	
070-3 Voiding Geometry Mapped	■	
120 Spatial Containment	■	
General	*company statement*	*WallStandardCase 03A / 2x3*
_G4 Remarks	■	

Window 01 / 2x3

301 IfcWindow	company statement	Window 01 / 2x3
001 GUIDs	■	
002 History	■	
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-5 Geometry Profile	■	
030-6 Geometry Body		
030-6-5 Geometry Explicit	■	
030-6-9 Geometry Mapped	■	
040 Presentation		
040-1 Geometric Presentation	■	
050 CAD Layer	■	
080 Filling		
080-2 Is Filling	■	
120 Spatial Containment	■	
200 Material		
200-1 Single Material	■	
200-5 Material List	■	

210 Property Set		
210-1 Property Set IFC Common		
210-2 Property Set IFC any		
210-3 Property Set User Defined		
300 Type		
300-1 Type Geometry		
300-2 Type Naming		
300-3 Type Material		
300-5 Type Property Set		
300-6 Type Predefined Properties		
300-6-1 Type Predefined Properties Window		
General	*company statement*	*Window 01 / 2x3*
_G4 Remarks		