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Introduction

Edificius is a BIM software for buildings design and terrain modelling. It is also highly integrated with quantity takeoff and cost estimating features (PriMus software), together with a structural analysis software, energy performance verifications, MEP design and plant installations, etc.

Furthermore, it efficiently implements the RTBIM module which is seamlessly integrated allowing REAL TIME RENDERING visualization during the design process.

The ability to export and import IFC files is fully integrated in Edificius and will be continuously updated.

Edificius provides several export options and the ability to add properties to the IFC entities (not only IFC 2x3 standard properties but also including any user-defined properties too).

Coordination View (Surface Geometry) and the Quantity Take-Off addon view are also supported.

Testlist

Name test	concepts total	manually checked
BeamColumn 04 / 2x3	47	47
Beam_01 / 2x3	10	10
CharsetTest-01MEP / 2x3	2	2
Column 01 / 2x3	11	11
Column_02 / 2x3	6	6
CoveringFurnishing-01 / 2x3	57	57
CurtainWall-01 / 2x3	29	29
DoorWindow-02 / 2x3	11	11
DuplexHouse_Electrical / 2x3	65	65
DuplexHouse_Ventilation / 2x3	44	44
Grid 01 / 2x3	11	11
Member 01A / 2x3	10	10
Pile 01 / 2x3	19	19
PlateFastener-01 / 2x3	67	67
RandomMEP-X2 RME / 2x3	8	8
RandomMEP-X3 RME / 2x3	4	4
Reinforcement-01 / 2x3	94	94
Roof 01 / 2x3	15	15
Roof 02 / 2x3	12	12
Site 02 / 2x3	13	13
Slab 01A / 2x3	9	9
Slab 02A / 2x3	24	24
Space 01A / 2x3	12	12
StairSlab-01 / 2x3	19	19
UnitTest-01A / 2x3	3	3
Wall 01 / 2x3	19	19



Supported



Restricted

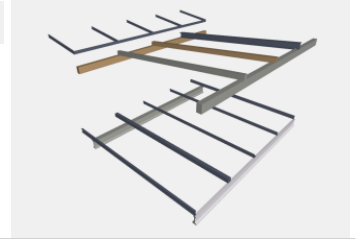


Not Supported

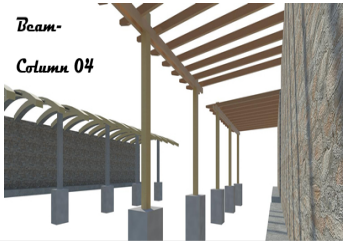
Name test	concepts total	manually checked
WallSlab 03 / 2x3	32	32
WallStandardCase 02A / 2x3	11	11
WallStandardCase 03A / 2x3	9	9
Window 01 / 2x3	22	22

Concepts

Beam_01 / 2x3



103 IfcBeam	company statement		Beam_01 / 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		■	
210 Property Set			
210-1 Property Set IFC Common		■	
General	company statement		Beam_01 / 2x3
_G4 Remarks		■	

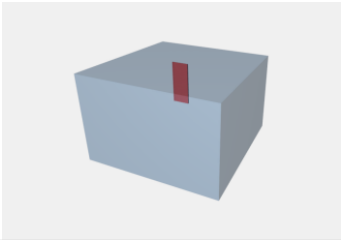
BeamColumn 04 / 2x3			Бетон-Столбы 04 
103 IfcBeam	company statement		BeamColumn 04 / 2x3
001 GUIDs			
002 History			
010 Naming			
020 Placement			
020-2 Placement Relative			
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid			
030-6-9 Geometry Mapped			
070 Voiding			
070-1 Voiding Geometry Explicit		None of the tested files contained this concept but it is supported.	
070-2 Voiding Geometry Mapped		None of the tested files contained this concept but it is supported.	
070-3 Voiding Geometry SweptSolid			
130 Grouping			
130-1 Grouping General			
200 Material			
200-1 Single Material			

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	■	None of the tested files contained this concept but it is supported.
070-2 Voiding Geometry Mapped	■	None of the tested files contained this concept but it is supported.
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	<i>company statement</i> 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	■

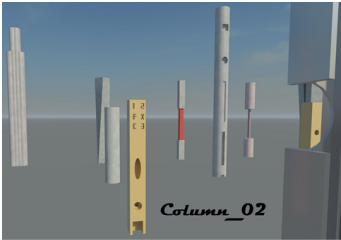
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300-1 Type Geometry	None of the tested files contained this concept but it is supported.
300-2 Type Naming	None of the tested files contained this concept but it is supported.
300-3 Type Material	None of the tested files contained this concept but it is supported.
300-5 Type Property Set	None of the tested files contained this concept but it is supported.
General	company statement BeamColumn 04 / 2x3
_G4 Remarks	

CharsetTest-01MEP / 2x3



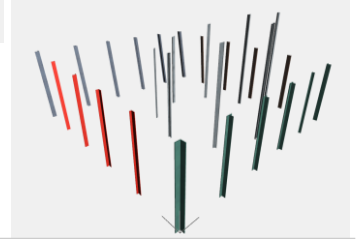
General	company statement		CharsetTest-01MEP / 2x3
_G1 Character sets		■	
_G4 Remarks		■	

Column_02 / 2x3



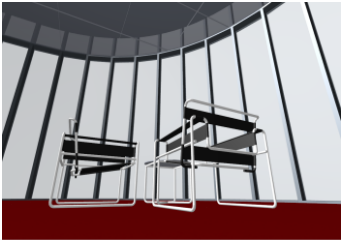
104 IfcColumn	company statement		Column_02 / 2x3
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
030-6-5 Geometry Explicit	■		
070 Voiding			
070-1 Voiding Geometry Explicit	■		
070-2 Voiding Geometry Mapped	■	None of the tested files contained this concept but it is supported.	
070-3 Voiding Geometry SweptSolid	■		
General	company statement		Column_02 / 2x3
_G4 Remarks	■		

Column 01 / 2x3



104 IfcColumn	company statement		Column 01 / 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	■		
050 CAD Layer	■		
120 Spatial Containment	■		
200 Material			
200-1 Single Material	■		
210 Property Set			
210-1 Property Set IFC Common	■		
General	company statement		Column 01 / 2x3
_G4 Remarks	■		

CoveringFurnishing-01 / 2x3



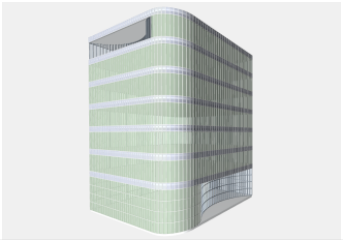
210 IfcFlowTerminal	company statement		CoveringFurnishing-01 / 2x3
001 GUIDs		■	
010 Naming		■	
020 Placement			
020-2 Placement Relative		■	
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit		■	
030-6-9 Geometry Mapped		■	
040 Presentation			
040-1 Geometric Presentation		■	
050 CAD Layer		■	
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	■ None of the tested files contained this concept but it is supported.
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	■	None of the tested files contained this concept but it is supported.
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	■	

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	■	None of the tested files contained this concept but it is supported.
300-2 Type Naming	■	
300-3 Type Material	■	None of the tested files contained this concept but it is supported.
300-5 Type Property Set	■	
501 IfcProject		<i>company statement</i> CurtainWall-01 / 2x3
010 Naming	■	
502 IfcSite		<i>company statement</i> CurtainWall-01 / 2x3
010 Naming	■	
060 Location		
060-1 Geographic Location	■	
060-2 Address	■	
503 IfcBuilding		<i>company statement</i> CurtainWall-01 / 2x3
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
504 IfcBuildingStorey		<i>company statement</i> CurtainWall-01 / 2x3
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
060 Location		
060-4 Storey Elevation	■	

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

DoorWindow-02 / 2x3



301 IfcWindow	company statement		DoorWindow-02 / 2x3
001 GUIDs	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit	■		
080 Filling			
080-2 Is Filling	■		
300 Type			
300-1 Type Geometry	■		
302 IfcDoor	company statement		DoorWindow-02 / 2x3
001 GUIDs	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit	■		
080 Filling			
080-2 Is Filling	■		

300 Type	
300-1 Type Geometry	
General	<i>company statement</i> DoorWindow-02 / 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	■	None of the tested files contained this concept but it is supported.	
300-2 Type Naming	■		
205 IfcFlowController		company statement	DuplexHouse_Electrical / 2x3
010 Naming	■		

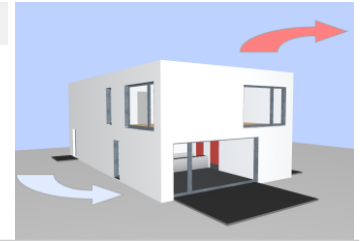
020 Placement	
020-2 Placement Relative	■
030 Geometry	
030-6 Geometry Body	
030-6-5 Geometry Explicit	■
030-6-9 Geometry Mapped	■
100 Element Aggregation	
100-4 Port Assignment	■
110 Connectivity	
110-5 Connectivity by Ports	■
120 Spatial Containment	■
130 Grouping	
130-2 Grouping to Systems	■
300 Type	
300-1 Type Geometry	■
300-2 Type Naming	■
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	<i>company statement</i> 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	■	None of the tested files contained this concept but it is supported.
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_Ventilation / 2x3



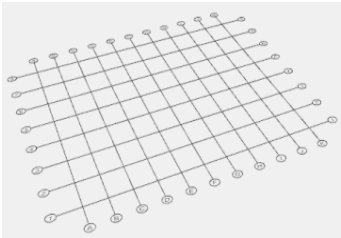
206 IfcFlowFitting	company statement		DuplexHouse_Ventilation / 2x3
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
030-6-5 Geometry Explicit	■		
030-6-9 Geometry Mapped	■		
040 Presentation			
040-1 Geometric Presentation	■		
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	■		

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	<i>company statement</i> 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	■

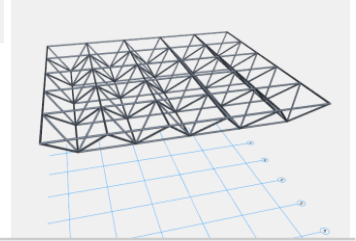
130 Grouping		
130-2 Grouping to Systems	■	
507 IfcSystem		<i>company statement</i> DuplexHouse_Ventilation / 2x3
010 Naming	■	
130 Grouping		
130-5 Is Group	■	
250 System Assignment		
250-2 Services Spatial Element	■	
General		<i>company statement</i> DuplexHouse_Ventilation / 2x3
_G4 Remarks	■	

Grid 01 / 2x3



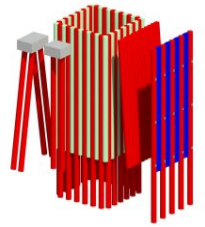
509 IfcGrid	company statement		Grid 01 / 2x3
001 GUIDs		■	
002 History		■	
010 Naming		■	
020 Placement			
020-2 Placement Relative		■	
030 Geometry			
030-3 Geometry FootPrint		■	
040 Presentation			
040-1 Geometric Presentation		■	
050 CAD Layer		■	
120 Spatial Containment		■	
210 Property Set			
210-3 Property Set User Defined		■	
270 Grid Usage			
270-1 Grid Axes		■	
General	company statement		Grid 01 / 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		■	

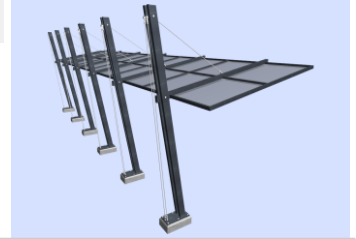
Pile 01 / 2x3



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		■	

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	None of the tested files contained this concept but it is supported.
300-5 Type Property Set	
General	<i>company statement</i>
_G4 Remarks	

PlateFastener-01 / 2x3



103 IfcBeam	company statement		PlateFastener-01 / 2x3
001 GUIDs	■		
002 History	■		
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
030-6-9 Geometry Mapped	■		
104 IfcColumn	company statement		PlateFastener-01 / 2x3
001 GUIDs	■		
002 History	■		
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
030-6-9 Geometry Mapped	■		
100 Element Aggregation			
100-2 Element Decomposition	■	None of the tested files contained this concept but it is supported.	
210 Property Set			
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	■	None of the tested files contained this concept but it is supported.
401 IfcMember	company statement	
		PlateFastener-01 / 2x3
001 GUIDs	■	
002 History	■	
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	■	
210 Property Set		
210-1 Property Set IFC Common	■	
210-3 Property Set User Defined	■	
300 Type		
300-2 Type Naming	■	
300-3 Type Material	■	
300-5 Type Property Set	■	
402 IfcPlate	company statement	
		PlateFastener-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		
030-6-2 Geometry Clipping		None of the tested files contained this concept but it is supported.
030-6-5 Geometry Explicit		
040 Presentation		
040-1 Geometric Presentation		
050 CAD Layer		
070 Voiding		
070-3 Voiding Geometry SweptSolid		None of the tested files contained this concept but it is supported.
120 Spatial Containment		
200 Material		
200-2 Material Layer Set		None of the tested files contained this concept but it is 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	■	None of the tested files contained this concept but it is supported.
403 IfcFooting	company statement PlateFastener-01 / 2x3	
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	None of the tested files contained this concept but it is supported.
030-6-2 Geometry Clipping	■	None of the tested files contained this concept but it is supported.
405 IfcFastener	company statement PlateFastener-01 / 2x3	
010 Naming	■	None of the tested files contained this concept but it is supported.
020 Placement		
020-2 Placement Relative	■	None of the tested files contained this concept but it is supported.
030 Geometry		
030-2 Geometry Axis	■	None of the tested files contained this concept but it is supported.
406 IfcMechanicalFastener	company statement PlateFastener-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	■	None of the tested files contained this concept but it is supported.
030-6-5 Geometry Explicit	■	None of the tested files contained this concept but it is supported.
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		
210-6 Property Set IFC any	■	
210-9 Property Set User Defined	■	
300 Type		
300-1 Type Geometry	■	
300-2 Type Naming	■	
300-3 Type Material	■	None of the tested files contained this concept but it is supported.
300-5 Type Property Set	■	None of the tested files contained this concept but it is supported.
General	company statement	
_G4 Remarks	■	

PlateFastener-01 / 2x3

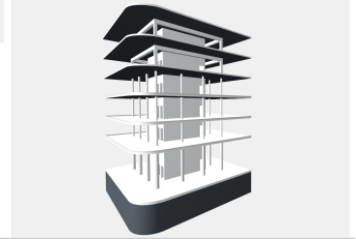
RandomMEP-X2 RME / 2x3

205 IfcFlowController	company statement		RandomMEP-X2 RME / 2x3
001 GUIDs		■	
002 History		■	
010 Naming		■	
020 Placement			
020-2 Placement Relative		■	
030 Geometry			
030-6 Geometry Body			
030-6-9 Geometry Mapped		■	
050 CAD Layer		■	
100 Element Aggregation			
100-4 Port Assignment		■	
General	company statement		RandomMEP-X2 RME / 2x3
_G4 Remarks		■	

RandomMEP-X3 RME / 2x3

506 IfcGroup		company statement	RandomMEP-X3 RME / 2x3
001 GUIDs			
010 Naming			
130 Grouping			
130-5 Is Group			
General		company statement	RandomMEP-X3 RME / 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	■		

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		None of the tested files contained this concept but it is supported.
010 Naming		None of the tested files contained this concept but it is supported.
020 Placement		
020-2 Placement Relative		None of the tested files contained this concept but it is supported.

030 Geometry	
030-6 Geometry Body	
030-6-5 Geometry Explicit	■ None of the tested files contained this concept but it is supported.
030-6-9 Geometry Mapped	■ None of the tested files contained this concept but it is supported.
040 Presentation	
040-1 Geometric Presentation	■ None of the tested files contained this concept but it is supported.
050 CAD Layer	■ None of the tested files contained this concept but it is supported.
120 Spatial Containment	■ None of the tested files contained this concept but it is supported.
200 Material	
200-1 Single Material	■ None of the tested files contained this concept but it is supported.
210 Property Set	
210-9 Property Set User Defined	■ None of the tested files contained this concept but it is supported.
300 Type	
300-1 Type Geometry	■ None of the tested files contained this concept but it is supported.
300-2 Type Naming	■ None of the tested files contained this concept but it is supported.
300-3 Type Material	■ None of the tested files contained this concept but it is supported.
300-5 Type Property Set	■ None of the tested files contained this concept but it is supported.
408 IfcElementAssembly	<i>company statement</i>
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	■	None of the tested files contained this concept but it is supported.
100 Element Aggregation		
100-2 Element Decomposition	■	
120 Spatial Containment	■	
210 Property Set		
210-9 Property Set User Defined	■	None of the tested files contained this concept but it is supported.
409 IfcReinforcingBar		<i>company statement</i> 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		None of the tested files contained this concept but it is supported.
300-5 Type Property Set		
410 IfcReinforcingMesh	company statementReinforcement-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		None of the tested files contained this concept but it is supported.
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		None of the tested files contained this concept but it is supported.
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		

150 Spatial Aggregation		
150-1 Spatial Composition	■	
150-2 Spatial Decomposition	■	
504 IfcBuildingStorey		<i>company statement</i> 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		<i>company statement</i> Reinforcement-01 / 2x3
_G4 Remarks	■	

Roof 01 / 2x3

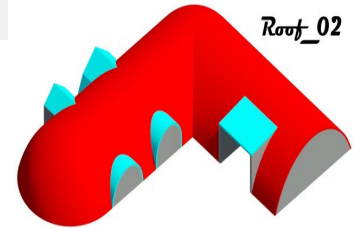


101 IfcWallStandardCase	company statement		Roof 01 / 2x3
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid			
030-6-2 Geometry Clipping			
105 IfcSlab	company statement		Roof 01 / 2x3
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid		None of the tested files contained this concept but it is supported.	
030-6-2 Geometry Clipping			
030-6-9 Geometry Mapped		None of the tested files contained this concept but it is supported.	
070 Voiding			
070-3 Voiding Geometry SweptSolid		None of the tested files contained this concept but it is supported.	
080 Filling			
080-1 Has Filling			
080-1-2 Has Filling Window		None of the tested files contained this concept but it is supported.	
200 Material			
200-2 Material Layer Set			
110 IfcRoof	company statement		Roof 01 / 2x3
030 Geometry			
030-1 Geometry Box			

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	<i>company statement</i>
_G4 Remarks	■

Roof 01 / 2x3

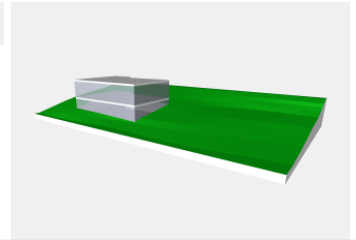
Roof 02 / 2x3



101 IfcWallStandardCase		company statement	Roof 02 / 2x3
010 Naming		■	
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid		■	
030-6-2 Geometry Clipping		■	
050 CAD Layer		■	
110 IfcRoof		company statement	Roof 02 / 2x3
010 Naming		■	
020 Placement			
020-2 Placement Relative		■	
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit		■	
050 CAD Layer		■	
100 Element Aggregation			
100-2 Element Decomposition		■	
210 Property Set			
210-1 Property Set IFC Common		■	
210-3 Property Set User Defined		■	

General	company statement	Roof 02 / 2x3
_G4 Remarks		

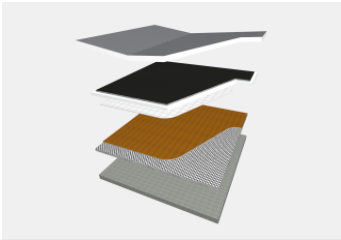
Site 02 / 2x3



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		■	

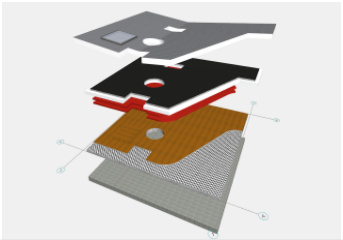
210 Property Set			
210-1 Property Set IFC Common			
General		company statement	Site 02 / 2x3
_G4 Remarks			

Slab 01A / 2x3



105 IfcSlab	company statement		Slab 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		■	
050 CAD Layer		■	
200 Material			
200-2 Material Layer Set		■	
200-3 Material Layer Usage		■	
210 Property Set			
210-1 Property Set IFC Common		■	
General	company statement		Slab 01A / 2x3
_G4 Remarks		■	

Slab 02A / 2x3

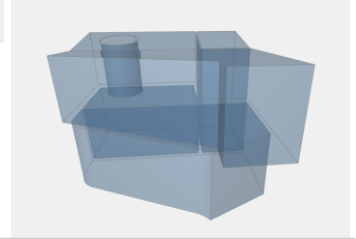


105 IfcSlab	company statement		Slab 02A / 2x3
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-1 Geometry Box	■		
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
030-6-2 Geometry Clipping	■		
030-6-5 Geometry Explicit	■		
030-6-9 Geometry Mapped	■		
070 Voiding			
070-1 Voiding Geometry Explicit	■		
070-2 Voiding Geometry Mapped	■	None of the tested files contained this concept but it is supported.	
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	None of the tested files contained this concept but it is supported.
300-2 Type Naming	
300-3 Type Material	
300-5 Type Property Set	
General	company statement
_G4 Remarks	

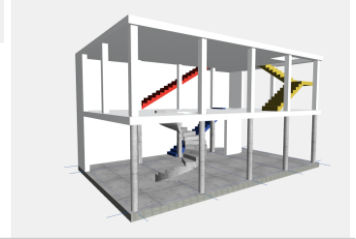
Slab 02A / 2x3

Space 01A / 2x3



505 IfcSpace	company statement		Space 01A / 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			
210-1 Property Set IFC Common		■	
210-6 Property Set IFC any		■	
General	company statement		Space 01A / 2x3
_G4 Remarks		■	

StairSlab-01 / 2x3

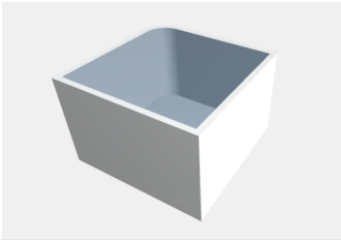


105 IfcSlab	company statement		StairSlab-01 / 2x3
001 GUIDs	■		
002 History	■		
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
040 Presentation			
040-1 Geometric Presentation	■		
040-2 Material Presentation	■		
070 Voiding			
070-3 Voiding Geometry SweptSolid	■		
106 IfcStair	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
_G4 Remarks	■

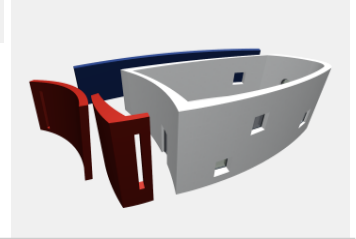
StairSlab-01 / 2x3

UnitTest-01A / 2x3



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

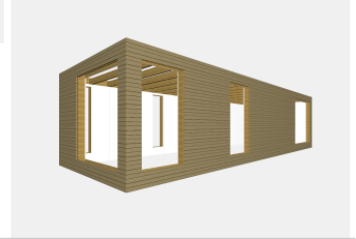
Wall 01 / 2x3



102 IfcWall	company statement		Wall 01 / 2x3
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		■	
030-6-5 Geometry Explicit		■	
040 Presentation			
040-1 Geometric Presentation		■	
040-2 Material Presentation		■	
070 Voiding			
070-1 Voiding Geometry Explicit		■	
070-3 Voiding Geometry SweptSolid		■	
080 Filling			
080-1 Has Filling			
080-1-1 Has Filling Door		■	
080-1-2 Has Filling Window		■	

200 Material		
200-1 Single Material	■	
210 Property Set		
210-1 Property Set IFC Common	■	
300 Type		
300-3 Type Material	■	None of the tested files contained this concept but it is supported.
300-5 Type Property Set	■	
301 IfcWindow		company statement Wall 01 / 2x3
020 Placement		
020-2 Placement Relative	■	
302 IfcDoor		company statement Wall 01 / 2x3
020 Placement		
020-2 Placement Relative	■	
General		company statement Wall 01 / 2x3
_G4 Remarks	■	

WallSlab 03 / 2x3

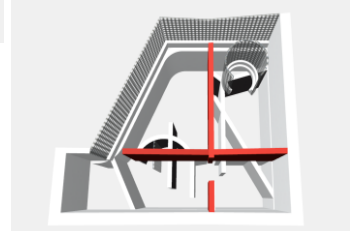


102 IfcWall	company statement		WallSlab 03 / 2x3
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-9 Geometry By Components	■		
070 Voiding			
070-3 Voiding Geometry SweptSolid	■		
100 Element Aggregation			
100-2 Element Decomposition	■		
210 Property Set			
210-1 Property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

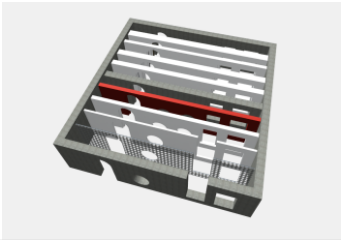
020 Placement		
020-2 Placement Relative	■	
150 Spatial Aggregation		
150-1 Spatial Composition	■	
150-2 Spatial Decomposition	■	
505 IfcSpace	company statement WallSlab 03 / 2x3	
010 Naming	■	
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
General	company statement WallSlab 03 /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

WallStandardCase 02A / 2x3



101 IfcWallStandardCase	company statement		WallStandardCase 02A / 2x3
010 Naming		■	
020 Placement			
020-2 Placement Relative		■	
030 Geometry			
030-2 Geometry Axis		■	
030-6 Geometry Body			
030-6-1 Geometry SweptSolid		■	
030-6-2 Geometry Clipping		■	
050 CAD Layer		■	
110 Connectivity			
110-2 Connectivity Path		■	
120 Spatial Containment		■	
200 Material			
200-4 Material Layer Usage		■	
210 Property Set			
210-1 Property Set IFC Common		■	
General	company statement		WallStandardCase 02A / 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	■	None of the tested files contained this concept but it is supported.	
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	■ None of the tested files contained this concept but it is supported.
300-5 Type Property Set	■
300-6 Type Predefined Properties	
300-6-1 Type Predefined Properties Window	■
General	company statement
_G4 Remarks	■