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Introduction

CerTus – PN is the BIM authoring software for the design of scaffolds compliant to all construction requirements (e.g. large and small buildings, civil and industrial building, etc.).

The input features are managed graphically, with the possibility to use a BIM objects catalog for scaffold design. Each object is equipped with a graphic representation and an information set which makes it unique in all its dimensional, geometric and safety features. In addition, the software allows the preparation of all scaffold related operational safety documentation.

CerTus - PN allows the import of IFC files: this functionality is continuously updated. The import phase is managed through a dedicated IFC editor allowing the user to browse all the relationships and properties contained in the IFC model. It is also possible to browse the IFC model using filters, selections, and color changing.
CerTus - PN is certified by buildingSMART for CV2.0 import starting from v.12.00c.
A wide range of user support content, including video tutorials and discussion forums, explain all software features together with those linked to the IFC format and are available online.

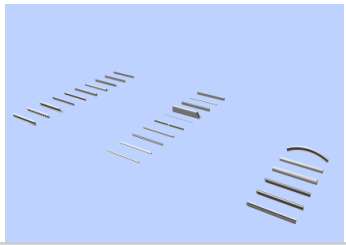
Testlist

Name test	concepts total	manually checked
BeamColumn 04 / 2x3	47	47
Beam_02 / 2x3	12	12
CharsetTest-01A / 2x3	2	2
Column 01 / 2x3	11	11
Column_02 / 2x3	6	6
CoveringFurnishing-01 / 2x3	57	57
CurtainWall-01 / 2x3	29	29
Door 01 / 2x3	22	22
DoorWindow-02 / 2x3	11	11
Grid 01 / 2x3	11	11
Member 01A / 2x3	10	10
Pile 01 / 2x3	19	19
PlateFastener-01 / 2x3	67	67
RampRailing-01 / 2x3	28	28
Roof 01 / 2x3	15	15
Roof 02 / 2x3	12	12
Site 01 / 2x3	14	14
Slab 01A / 2x3	9	9
Slab 02A / 2x3	24	24
Space 01A / 2x3	12	12
Space_01MEP / 2x3	15	15
StairSlab-01 / 2x3	19	19
UnitTest-01A / 2x3	3	3
Wall 01 / 2x3	19	19
Wall 02 / 2x3	14	14
WallSlab 03 / 2x3	32	32

Name test	concepts total	manually checked
WallStandardCase 01A / 2x3	15	15
WallStandardCase 02S / 2x3	11	11
WallStandardCase 04A / 2x3	8	8
Window 01 / 2x3	22	22

Concepts

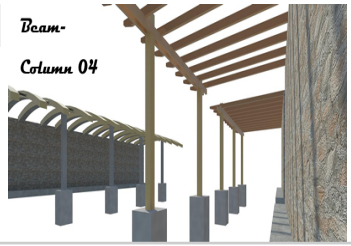
Beam_02 / 2x3



103 IfcBeam	company statement	Beam_02 / 2x3
010 Naming		
030 Geometry		
030-2 Geometry Axis		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid		
030-6-2 Geometry Clipping		
030-6-5 Geometry Explicit		
050 CAD Layer		
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		
120 Spatial Containment		
200 Material		
200-1 Single Material		
General	company statement	Beam_02 / 2x3
_G4 Remarks		

Supported Restricted Not Supported

BeamColumn 04 / 2x3



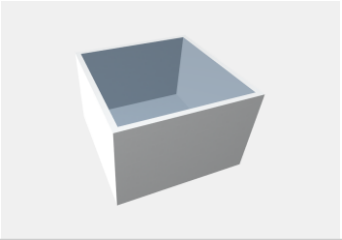
103 IfcBeam	company statement	BeamColumn 04 / 2x3
001 GUIDs		
002 History		
010 Naming		
020 Placement		
020-2 Placement Relative		
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid		
030-6-9 Geometry Mapped		
070 Voiding		
070-1 Voiding Geometry Explicit	None of the tested files contained 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	*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	■	

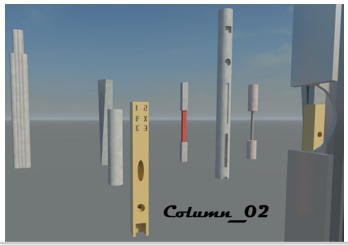
300 Type		
300-1 Type Geometry	■	None of the tested files contained this concept but it is supported.
300-2 Type Naming	■	None of the tested files contained this concept but it is supported.
300-3 Type Material	■	None of the tested files contained this concept but it is supported.
300-5 Type Property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

CharsetTest-01A / 2x3



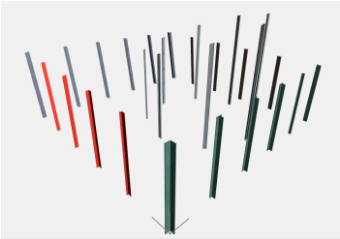
General	*company statement*	*CharsetTest-01A / 2x3*
_G1 Character sets		
_G4 Remarks		

Column_02 / 2x3



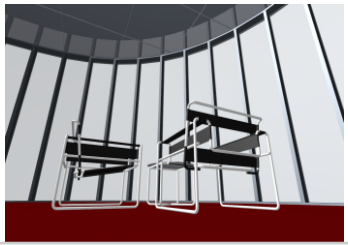
104 IfcColumn		company statement	Column_02 / 2x3
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
030-6-5 Geometry Explicit	■		
070 Voiding			
070-1 Voiding Geometry Explicit	■		
070-2 Voiding Geometry Mapped	■	None of the tested files contained this concept but it is supported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



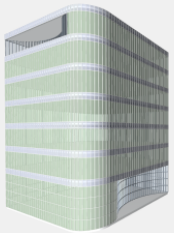
210 IfcFlowTerminal	company statement	CoveringFurnishing-01 / 2x3
001 GUIDs	■	
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-6 Geometry Body		
030-6-5 Geometry Explicit	■	
030-6-9 Geometry Mapped	■	
040 Presentation		
040-1 Geometric Presentation	■	
050 CAD Layer	■	
120 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

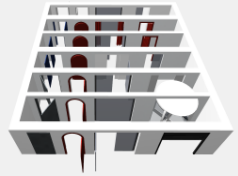


109 IfcCurtainWall	company statement	CurtainWall-01 / 2x3
001 GUIDs	■	
002 History	■	
010 Naming	■	
020 Placement		
020-1 Placement Relative	■	
030 Geometry		
030-6 Geometry Body		
030-6-5 Geometry Explicit	■	
030-9 Geometry By Components	■	
040 Presentation		
040-1 Geometric Presentation	■	
050 CAD 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	■		
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	■		

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	■	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 Door	■	
General	*company statement*	*Door 01 / 2x3*
_G4 Remarks	■	

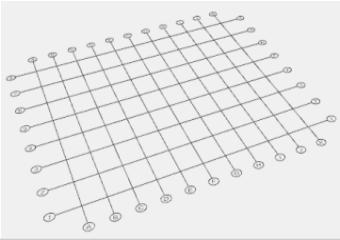
DoorWindow-02 / 2x3



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	■	

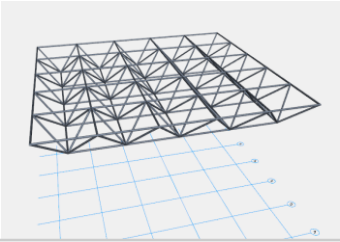
300 Type		
300-1 Type Geometry	■	
General	*company statement*	*DoorWindow-02 / 2x3*
_G4 Remarks	■	

Grid 01 / 2x3



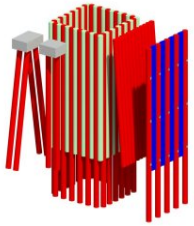
509 IfcGrid	company statement	Grid 01 / 2x3
001 GUIDs		
002 History		
010 Naming		
020 Placement		
020-2 Placement Relative		
030 Geometry		
030-3 Geometry FootPrint		
040 Presentation		
040-1 Geometric Presentation		
050 CAD Layer		
120 Spatial Containment		
210 Property Set		
210-3 Property Set User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

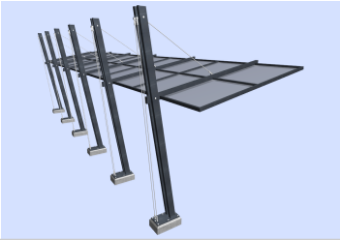


404 IfcPile	company statement	Pile 01 / 2x3
001 GUIDs	■	
002 History	■	
010 Naming	■	
020 Placement		
020-1 Placement Relative	■	
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
030-6-2 Geometry Clipping	■	
030-6-9 Geometry Mapped	■	
040 Presentation		
040-1 Geometric Presentation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

■ 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	■	None of the tested files contained this concept but it is supported.
300-5 Type Property Set	■	
General	*company statement*	*Pile 01 / 2x3*
_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	■		

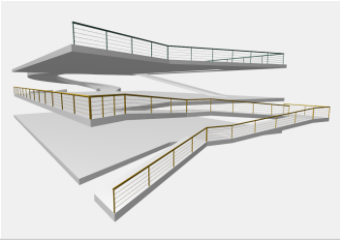
300 Type		
300-1 Type Geometry		
300-2 Type Naming		
300-3 Type Material		
300-5 Type Property Set	None of the tested files contained this concept but it is supported.	
401 IfcMember	*company statement*	*PlateFastener-01 / 2x3*
001 GUIDs		
002 History		
020 Placement		
020-2 Placement Relative		
030 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	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.	
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			
300-5 Type Property Set			
General		*company statement*	*PlateFastener-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		None of the tested files contained this concept but it is supported.	
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	

Roof 01 / 2x3

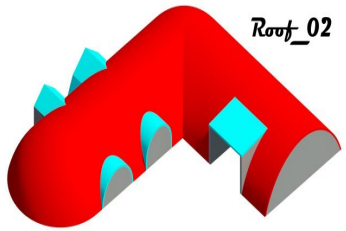


101 IfcWallStandardCase		company statement	Roof 01 / 2x3
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid			
030-6-2 Geometry Clipping			
105 IfcSlab		company statement	Roof 01 / 2x3
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid		None of the tested files contained 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			

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	■	

Roof 02 / 2x3

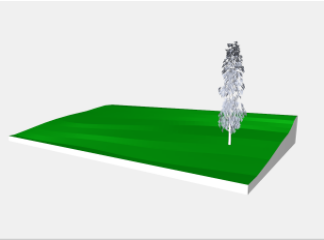


101 IfcWallStandardCase	*company statement*	*Roof 02 / 2x3*
010 Naming	■	
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
030-6-2 Geometry Clipping	■	
050 CAD Layer	■	
110 IfcRoof	*company statement*	*Roof 02 / 2x3*
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
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	■	

■ Supported ■ Restricted ■ Not Supported

General	company statement	Roof 02 / 2x3
_G4 Remarks		

Site 01 / 2x3

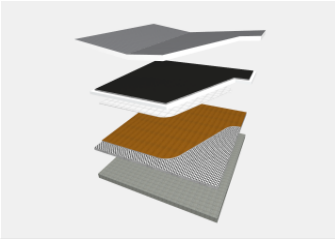


502 IfcSite	company statement	Site 01 / 2x3
001 GUIDs	■	
002 History	■	
010 Naming	■	
020 Placement		
020-1 Placement Absolute	■	
030 Geometry		
030-1 Geometry Box	■	
030-3 Geometry FootPrint	■	
030-6 Geometry Body		
030-6-5 Geometry Explicit	■	
040 Presentation		
040-1 Geometric Presentation	■	
050 CAD Layer	■	
060 Location		
060-1 Geographic Location	■	
060-2 Address	■	
120 Spatial Containment	■	
210 Property Set		
210-1 Property Set IFC Common	■	

■ Supported ■ Restricted ■ Not Supported

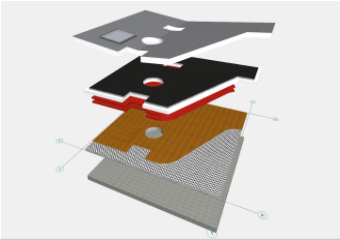
General	company statement	Site 01 / 2x3
_G4 Remarks		

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	■	

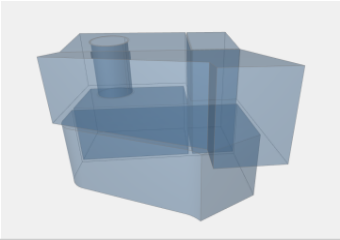
Slab 02A / 2x3



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*	*Slab 02A / 2x3*
_G4 Remarks			

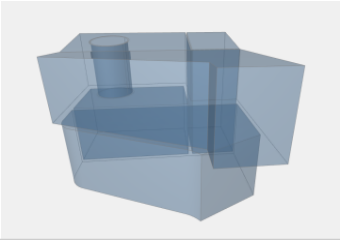
Space_01MEP / 2x3



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	■	

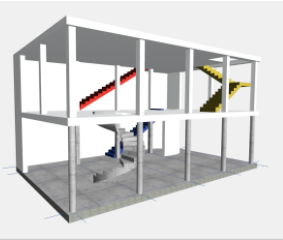
Space 01A / 2x3



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	■	

■ Supported ■ Restricted ■ Not Supported

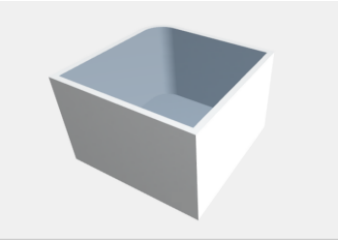
StairSlab-01 / 2x3



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	■	

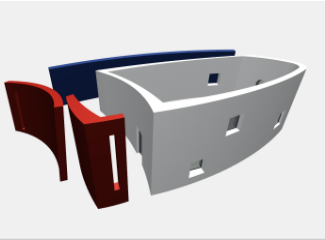
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit	■		
030-9 Geometry By Components	■		
040 Presentation			
040-1 Geometric Presentation	■		
050 CAD Layer	■		
100 Element Aggregation			
100-2 Element Decomposition	■		
120 Spatial Containment	■		
200 Material			
200-1 Single Material	■	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

UnitTest-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

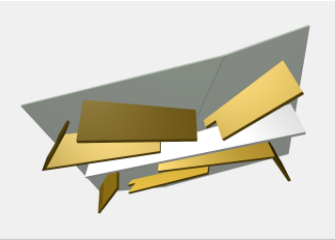


102 IfcWall	company statement	Wall 01 / 2x3
002 History	■	
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
030-6-2 Geometry Clipping	■	
030-6-5 Geometry Explicit	■	
040 Presentation		
040-1 Geometric Presentation	■	
040-2 Material 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	■	

■ Supported ■ Restricted ■ Not Supported

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	■		

Wall 02 / 2x3



102 IfcWall	company statement	Wall 02 / 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	■	
030-6-5 Geometry Explicit	■	
050 CAD Layer	■	
070 Voiding		
070-1 Voiding Geometry Explicit	■	None of the tested files contained this concept but it is supported.
070-3 Voiding Geometry SweptSolid	■	
120 Spatial Containment	■	
130 Grouping		
130-1 Grouping General	■	
200 Material		
200-3 Material Layer Set	■	

300 Type		
300-2 Type Naming	■	
General	*company statement*	*Wall 02 / 2x3*
_G4 Remarks	■	

WallSlab 03 / 2x3



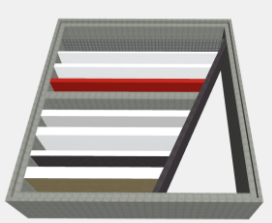
102 IfcWall	*company statement*	*WallSlab 03 / 2x3*
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-9 Geometry By Components	■	
070 Voiding		
070-3 Voiding Geometry SweptSolid	■	
100 Element Aggregation		
100-2 Element Decomposition	■	
210 Property Set		
210-1 Property Set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

■ Supported ■ Restricted ■ Not Supported

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	■		

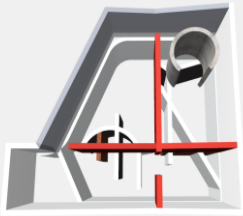
WallStandardCase 01A / 2x3



101 IfcWallStandardCase	company statement	WallStandardCase 01A / 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	■	
040 Presentation		
040-1 Geometric Presentation	■	
040-2 Material Presentation	■	
050 CAD Layer	■	
110 Connectivity		
110-2 Connectivity Path	■	
120 Spatial Containment	■	
200 Material		
200-4 Material Layer Usage	■	
210 Property Set		
210-3 Property Set User Defined	■	

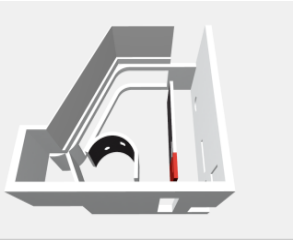
300 Type		
300-3 Type Material		
300-5 Type Property Set		
General	*company statement*	*WallStandardCase 01A / 2x3*
_G4 Remarks		

WallStandardCase 02S / 2x3



101 IfcWallStandardCase	company statement	WallStandardCase 02S / 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 02S / 2x3
_G4 Remarks	■	

WallStandardCase 04A / 2x3



101 IfcWallStandardCase		*company statement*	*WallStandardCase 04A / 2x3*
010 Naming	■		
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 04A / 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*	*Window 01 / 2x3*
_G4 Remarks			