

Table of contents

Introduction

Testlist

Concepts

Introduction

CerTus-IFC: create construction site health and safety plans directly from a BIM model.

CerTus-IFC allows to:

- open BIM models in the standard IFC file format
- view the 3D model with all the relating information for preparing a detailed Health & Safety plan.

CerTus-IFC allows the interconnection of work activities, workers, equipment, work correlated risk assessments and prevention schemes to simple BIM objects to quickly prepare a health and safety plan coordinated with the building's digital model.

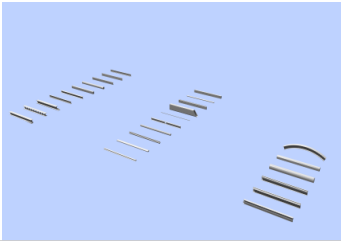
Testlist

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
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
WallStandardCase 01A / 2x3	15	15

Name test	concepts total	manually checked
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	■		

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	■		

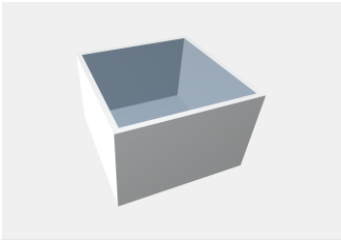
210 Property Set		
210-1 Property Set IFC Common	■	
210-3 Property Set User Defined	■	
300 Type		
300-1 Type Geometry	■	
300-2 Type Naming	■	
300-3 Type Material	■	
300-5 Type Property Set	■	
104 IfcColumn	company statement BeamColumn 04 / 2x3	
001 GUIDs	■	
002 History	■	
010 Naming	■	
020 Placement		
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	<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	■

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
_G4 Remarks	

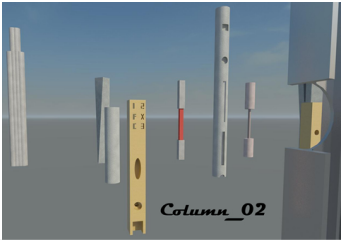
BeamColumn 04 / 2x3

CharsetTest-01A / 2x3



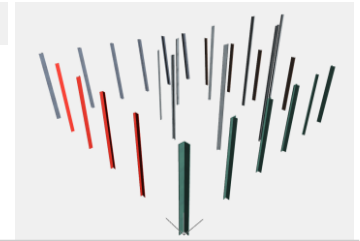
General	company statement		CharsetTest-01A / 2x3
_G1 Character sets		■	
_G4 Remarks		■	

Column_02 / 2x3



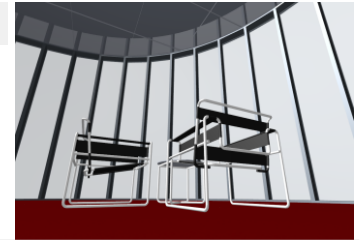
104 IfcColumn	company statement		Column_02 / 2x3
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
030-6-5 Geometry Explicit	■		
070 Voiding			
070-1 Voiding Geometry Explicit	■		
070-2 Voiding Geometry Mapped	■	None of the tested files contained this concept but it is supported.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



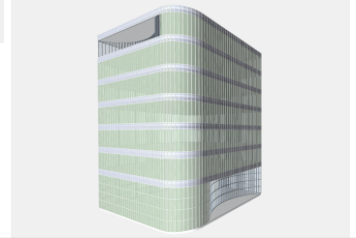
210 IfcFlowTerminal	company statement		CoveringFurnishing-01 / 2x3
001 GUIDs		■	
010 Naming		■	
020 Placement			
020-2 Placement Relative		■	
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit		■	
030-6-9 Geometry Mapped		■	
040 Presentation			
040-1 Geometric Presentation		■	
050 CAD Layer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

CurtainWall-01 / 2x3

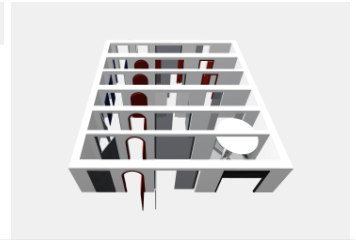


109 IfcCurtainWall	company statement		CurtainWall-01 / 2x3
001 GUIDs		■	
002 History		■	
010 Naming		■	
020 Placement			
020-1 Placement Relative		■	
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit		■	
030-9 Geometry By Components		■	
040 Presentation			
040-1 Geometric Presentation		■	
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		company statement
_G4 Remarks	■	

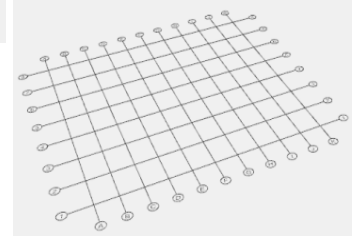
Door 01 / 2x3



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		■	

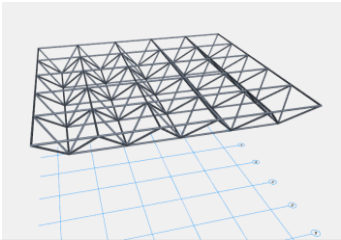
210 Property Set		
210-1 Property Set IFC Common	■	
210-2 Property Set IFC any	■	
210-3 Property Set User Defined	■	
300 Type		
300-1 Type Geometry	■	
300-2 Type Naming	■	
300-3 Type Material	■	None of the tested files contained this concept but it is supported.
300-5 Type Property Set	■	
300-6 Type Predefined Properties		
300-6-1 Type Predefined Properties Door	■	
General		company statement
_G4 Remarks	■	

Grid 01 / 2x3



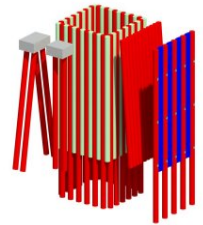
509 IfcGrid	company statement		Grid 01 / 2x3
001 GUIDs	■		
002 History	■		
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-3 Geometry FootPrint	■		
040 Presentation			
040-1 Geometric Presentation	■		
050 CAD Layer	■		
120 Spatial Containment	■		
210 Property Set			
210-3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

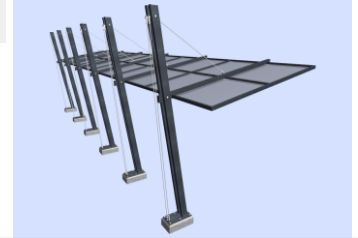
Pile 01 / 2x3



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>
<i>_G4 Remarks</i>	

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	
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

PlateFastener-01 / 2x3

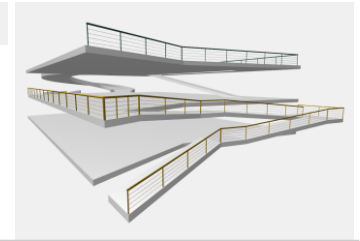
001 GUIDs		
002 History		
010 Naming		
020 Placement		
020-2 Placement Relative		
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid		
030-6-2 Geometry Clipping		None of the tested files contained this concept but it is supported.
030-6-5 Geometry Explicit		
040 Presentation		
040-1 Geometric 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	
_G4 Remarks	■	

PlateFastener-01 / 2x3

RampRailing-01 / 2x3

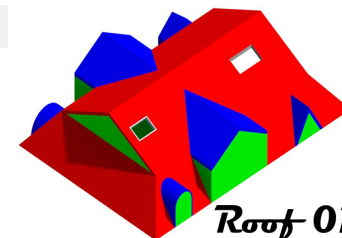


107 IfcRamp	company statement		RampRailing-01 / 2x3
001 GUIDs		■	
002 History		■	
010 Naming		■	
020 Placement			
020-1 Placement Relative		■	
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit		■	
030-9 Geometry By Components		■	
040 Presentation			
040-1 Geometric Presentation		■	
050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

<i>_G4 Remarks</i>	
--------------------	---

Roof 01 / 2x3

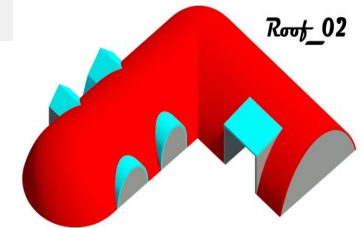


101 IfcWallStandardCase	company statement		Roof 01 / 2x3
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid			
030-6-2 Geometry Clipping			
105 IfcSlab	company statement		Roof 01 / 2x3
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid			
030-6-2 Geometry Clipping			
030-6-9 Geometry Mapped		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	■ None of the tested files contained this concept but it is supported.
General	<i>company statement</i>
_G4 Remarks	■

Roof 01 / 2x3

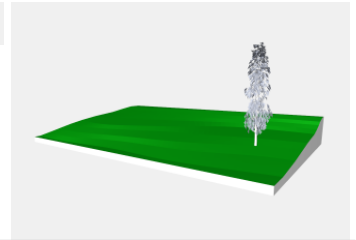
Roof 02 / 2x3



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		

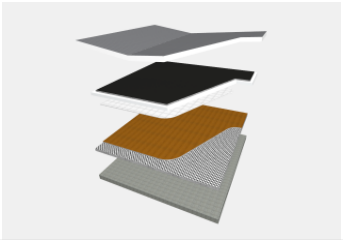
Site 01 / 2x3



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		■	

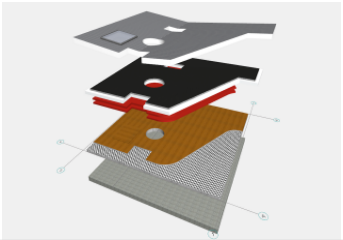
General	company statement	Site 01 / 2x3
_G4 Remarks		

Slab 01A / 2x3



105 IfcSlab		<i>company statement</i>	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		<i>company statement</i>	Slab 01A / 2x3
_G4 Remarks		■	

Slab 02A / 2x3

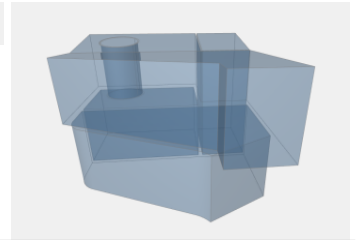


105 IfcSlab	company statement		Slab 02A / 2x3
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-1 Geometry Box	■		
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
030-6-2 Geometry Clipping	■		
030-6-5 Geometry Explicit	■		
030-6-9 Geometry Mapped	■		
070 Voiding			
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_01MEP / 2x3

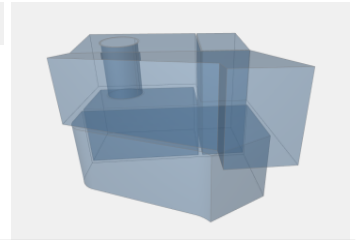


111 IfcBuildingElementProxy		company statement	Space_01MEP / 2x3
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
210 Property Set			
210-2 Property Set IFC any	■		
505 IfcSpace		company statement	Space_01MEP / 2x3
001 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	<i>company statement</i>
<i>_G4 Remarks</i>	■

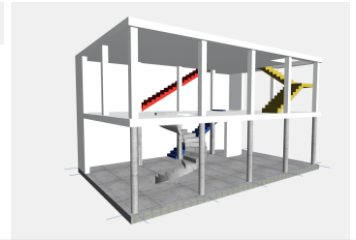
Space_01MEP / 2x3

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

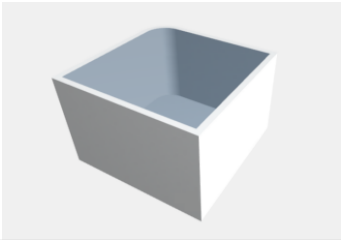


105 IfcSlab	company statement		StairSlab-01 / 2x3
001 GUIDs	■		
002 History	■		
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
040 Presentation			
040-1 Geometric Presentation	■		
040-2 Material Presentation	■		
070 Voiding			
070-3 Voiding Geometry SweptSolid	■		
106 IfcStair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

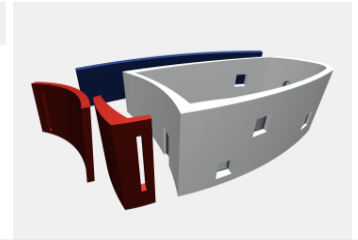
StairSlab-01 / 2x3

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	■		

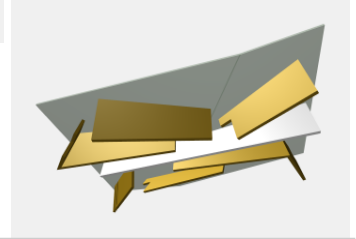
Wall 01 / 2x3



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	■	

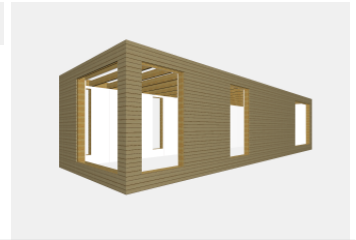
Wall 02 / 2x3



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

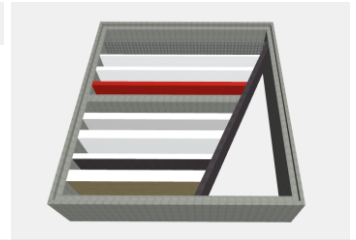


102 IfcWall	company statement		WallSlab 03 / 2x3
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-9 Geometry By Components	■		
070 Voiding			
070-3 Voiding Geometry SweptSolid	■		
100 Element Aggregation			
100-2 Element Decomposition	■		
210 Property Set			
210-1 Property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

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

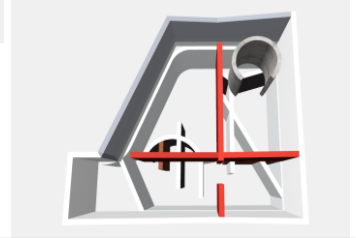
WallStandardCase 01A / 2x3



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		■	

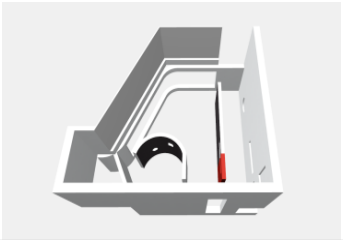
300 Type	
300-3 Type Material	■
300-5 Type Property Set	■
General	company statementWallStandardCase 01A / 2x3
_G4 Remarks	■

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	
_G4 Remarks	■	