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Introduction

IFC Export Allplan 2013

The currently released Version is Allplan 2013-0-3.

General Availability of the IFC Interfaces in Allplan 2013

Allplan 2013 has IFC support for Export and Import. The IFC Interfaces are delivered with Allplan and automatically installed. IFC Interfaces are fully integrated into Allplan.

Operating the IFC Interfaces

Operation of Export and Import is described in the Allplan-Help. The Allplan-Help provides besides the functional description of the IFC Interface also a section which explains the User how attach additional IFC Properties to Allplan Objects.

Update of IFC Interfaces

Improvements in the IFC Interfaces are delivered with Auto Update functionality of Allplan to the Customer.

Certified Export Interfaces

The certified IFC Export will be available in Allplan after reaching certification. Shipping of this Version is currently planned at begin of April 2013. Preliminary planned Version number is 2013-1-1. It will be delivered with Auto Update functionality free of charge to all Users of Allplan 2013-X.

Munich, 09 March 2013

Nemetschek Allplan Systems GmbH

Testlist

Name test	concepts total	manually checked		
				
BeamColumn 04 / 2x3	47	24	1	22
Beam_01 / 2x3	10	7	3	
Beam_02 / 2x3	12	5	3	4
Beam_03 / 2x3	6	2	1	3
CharsetTest-01A / 2x3	2	2		
Column 01 / 2x3	11	9	2	
Column_02 / 2x3	6	4	1	1
CoveringFurnishing-01 / 2x3	57	28	2	27
CurtainWall-01 / 2x3	29	19	1	9
Door 01 / 2x3	22	14	1	7
DoorWindow-02 / 2x3	11	9		2
Grid 01 / 2x3	11	7	2	2
Member 01A / 2x3	10	7		3
Pile 01 / 2x3	19	10	1	8
RampRailing-01 / 2x3	28	20	3	5
RandomArch-X1 / 2x3	16	15	1	
RandomArch-X2 / 2x3	11	11		
RandomArch-X3 / 2x3	17	17		
RandomArch-X4 / 2x3	14	14		
RandomArch-X5 / 2x3	21	21		
Roof 01 / 2x3	15	8	1	6
Roof 02 / 2x3	12	10	1	1
Site 01 / 2x3	14	11	1	2
Site 02 / 2x3	13	11		2
Slab 01A / 2x3	9	5	3	1
Slab 02A / 2x3	24	9	3	12



Supported



Restricted

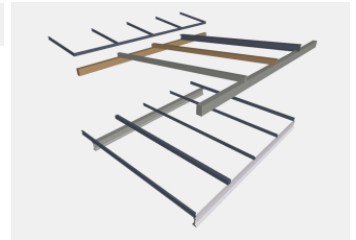


Not Supported

Name test	concepts total	manually checked		
				
Space 01A / 2x3	12	12		
StairSlab-01 / 2x3	19	17		2
UnitTest-01A / 2x3	3	2	1	
Wall 01 / 2x3	20	15	1	4
Wall 02 / 2x3	14	7		7
WallSlab 03 / 2x3	32	28		4
WallStandardCase 01A / 2x3	15	12	1	2
WallStandardCase 02A / 2x3	11	9	2	
WallStandardCase 03A / 2x3	9	7		2
WallStandardCase 04A / 2x3	8	7		1
Window 01 / 2x3	22	16		6

Concepts

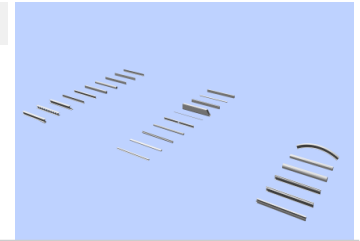
Beam_01 / 2x3



103 IfcBeam	company statement		Beam_01 / 2x3
010 Naming	■		
020 Placement			
020-2 Placement Relative	■	[TM 2013-03-08] Allplan stores Geometry in absolut coordinates. When BREPs are exported, the stored Geometry has to be used.	
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■	[TM 2013-03-09] Beams drawn in Allplan as rafters and sloped beams with arbitry profiles are exported as BREP from Allplan. Profiles in Allplan are either rectangle or arbitrary, no other profiles supported.	
030-6-2 Geometry Clipping	■	[TM 2013-03-08] Geometry Clipping is not supported with BREPs. The BREP is exported with clipped coordinates.	
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	■		

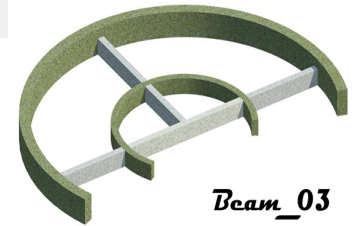
Beam_02 / 2x3



103 IfcBeam	company statement		Beam_02 / 2x3
010 Naming	■	[TM 2013-03-09] Not sure, what is restricted here, it should be not restricted. Beams are named OK.	
030 Geometry			
030-2 Geometry Axis	■	[TM 2013-03-09] Not all Beams in Allplan could be drawn as swept solid, so some beams are drawn as 3D solid are are exported as BREP and carry no axis. BREPs are Beam_6, Beam_7, Beam17, Beam_24, Beam_25, Beam_26	
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■	[TM 2013-03-09] Allplan does not support the testcases 1,17,24,25,26 as native Beams. Testcases 6,7 are exported as BREP, as not stored in swept geometry in Allplan. Allplan does not support composite profile, it is divided into several single Beams	
030-6-2 Geometry Clipping	■	[TM 2013-03-08] Geometry Clipping is not supported with BREPs. The BREP is exported with clipped coordinates.	
030-6-5 Geometry Explicit	■	[TM 2013-03-09] BREP Beams contain explicit geometry and the voiding is in the geometry.	
050 CAD Layer	■		
070 Voiding			
070-1 Voiding Geometry Explicit	■	[TM 2013-03-09] BREP Beams contain explicit geometry and the voiding is in the geometry.	
070-2 Voiding Geometry Mapped	■	[TM 2013-03-08] Geometry in general is exported as stored in Allplan (Swept Geometry or Explicit Geometry). Allplan does not use mapped Geometry except for macro placements.	
070-3 Voiding Geometry SweptSolid	■		

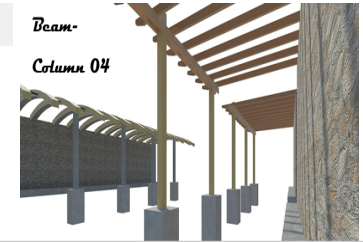
120 Spatial Containment		
200 Material		
200-1 Single Material		
General	company statement	
_G4 Remarks		Beam_02 / 2x3

Beam_03 / 2x3



103 IfcBeam		company statement	Beam_03 / 2x3
030 Geometry			
030-1 Geometry Box		[TM 2013-03-08] Allplan delivers the correct Geometry. The optional Bounding Box is not supported in IFC Export.	
030-2 Geometry Axis			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid		[TM 2013-03-09] Allplan does not store curved and clipped beams as swept solid geometry	
030-6-2 Geometry Clipping		[TM 2013-03-08] Geometry Clipping is not supported with BREPs. The BREP is exported with clipped coordinates.	
300 Type			
300-5 Type Property Set		[TM 2013-03-08] Typed objects are not supported in Allplan.	
General		company statement	Beam_03 / 2x3
_G4 Remarks			

BeamColumn 04 / 2x3



BeamColumn 04 / 2x3

103 IfcBeam	company statement	
001 GUIDs	■	
002 History	■	
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	[TM 2013-03-08] Allplan stores Geometry in absolut coordinates. When BREPs are exported, the stored Geometry has to be used.
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
030-6-9 Geometry Mapped	■	[TM 2013-03-08] Geometry in general is exported as stored in Allplan (Swept Geometry or Explicit Geometry). Allplan does not use mapped Geometry except for macro placements.
070 Voiding		
070-1 Voiding Geometry Explicit	■	[TM 2013-03-08] If Beam is exported as BREP, the opening is part of the BREP and not own object
070-2 Voiding Geometry Mapped	■	[TM 2013-03-08] Geometry in general is exported as stored in Allplan (Swept Geometry or Explicit Geometry). Allplan does not use mapped Geometry except for macro placements.
070-3 Voiding Geometry SweptSolid	■	

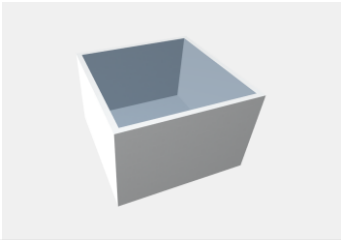
130 Grouping	
130-1 Grouping General	[TM 2013-03-08] Allplan does not support grouping of Beams
200 Material	
200-1 Single Material	
210 Property Set	
210-1 Property Set IFC Common	
210-3 Property Set User Defined	
300 Type	
300-1 Type Geometry	[TM 2013-03-08] Typed objects are not supported in Allplan.
300-2 Type Naming	[TM 2013-03-08] Typed objects are not supported in Allplan.
300-3 Type Material	[TM 2013-03-08] Typed objects are not supported in Allplan.
300-5 Type Property Set	[TM 2013-03-08] Typed objects are not supported in Allplan.
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	[TM 2013-03-08] Geometry in general is exported as stored in Allplan (Swept Geometry or Explicit Geometry). Allplan does not use mapped Geometry except for macro placements.

070 Voiding	
070-1 Voiding Geometry Explicit	 [TM 2013-03-08] If Column is exported as BREP, the opening is part of the BREP and not own object
070-2 Voiding Geometry Mapped	 [TM 2013-03-08] Geometry in general is exported as stored in Allplan (Swept Geometry or Explicit Geometry). Allplan does not use mapped Geometry except for macro placements.
070-3 Voiding Geometry SweptSolid	
130 Grouping	
130-1 Grouping General	 [TM 2013-03-08] Allplan does not support grouping of Columns
200 Material	
200-1 Single Material	
210 Property Set	
210-2 Property Set IFC any	
300 Type	
300-1 Type Geometry	 [TM 2013-03-08] Typed objects are not supported in Allplan.
300-2 Type Naming	 [TM 2013-03-08] Typed objects are not supported in Allplan.
300-3 Type Material	 [TM 2013-03-08] Typed objects are not supported in Allplan.
300-5 Type Property Set	 [TM 2013-03-08] Typed objects are not supported in Allplan.
403 IfcFooting	<i>company statement</i>
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	 [TM 2013-03-08] Geometry in general is exported as stored in Allplan (Swept Geometry or Explicit Geometry). Allplan does not use mapped Geometry except for macro placements.
130 Grouping	
130-1 Grouping General	 [TM 2013-03-08] Allplan does not support grouping of footings
200 Material	
200-1 Single Material	
210 Property Set	
210-2 Property Set IFC any	
300 Type	
300-1 Type Geometry	 [TM 2013-03-08] Typed objects are not supported in Allplan.
300-2 Type Naming	 [TM 2013-03-08] Typed objects are not supported in Allplan.
300-3 Type Material	 [TM 2013-03-08] Typed objects are not supported in Allplan.
300-5 Type Property Set	 [TM 2013-03-08] Typed objects are not supported in Allplan.
General	company statement
_G4 Remarks	

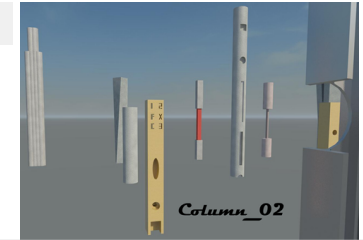
BeamColumn 04 / 2x3

CharsetTest-01A / 2x3



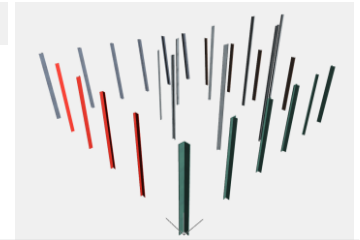
General	company statement		CharsetTest-01A / 2x3
_G1 Character sets		■	
_G4 Remarks		■	

Column_02 / 2x3



lfcColumn	company statement		Column_02 / 2x3
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid		[TM 2013-03-09] Not all COLUMNS in Allplan could be drawn as swept solid, so some columns are drawn as 3D solid and exported as BREP. BREPs are Column_09, Column_15, Column_17, Column_19 Allplan does not Support multiple geometry, so some columns had to be split to single columns: Column 4,5,16,18,20,21 Allplan supports only rectangle or arbitrary profiles.	
030-6-5 Geometry Explicit			
070 Voiding			
070-1 Voiding Geometry Explicit			
070-2 Voiding Geometry Mapped		[TM 2013-03-08] Geometry in general is exported as stored in Allplan (Swept Geometry or Explicit Geometry). Allplan does not use mapped Geometry except for macro placements.	
070-3 Voiding Geometry SweptSolid			
General	company statement		Column_02 / 2x3
_G4 Remarks			

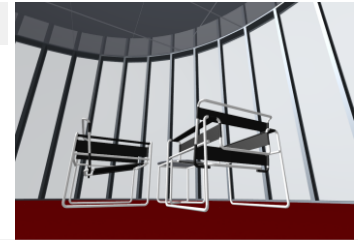
Column 01 / 2x3



ifcColumn	company statement		Column 01 / 2x3
010 Naming		■	
020 Placement			
020-2 Placement Relative		■	[TM 2013-03-08] Allplan stores Geometry in absolut coordinates. When BREPs are exported, the stored Geometry has to be used.
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid		■	[TM 2013-03-09] Allplan does not Support sloped columns. They are drawn as 3D solid and exported as BREP.
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	
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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	■	[TM 2013-03-08] Geometry in general is exported as stored in Allplan (Swept Geometry or Explicit Geometry). Allplan does not use mapped Geometry except for macro placements.	
040 Presentation			
040-1 Geometric Presentation	■		
050 CAD Layer	■		
120 Spatial Containment	■		
210 Property Set			
210-1 Property Set IFC Common	■	[TM 2013-03-08] Allplan supports no necessary IFC Attribute for this element.	
210-6 Property Set IFC any	■		
210-9 Property Set User Defined	■	[TM 2013-03-08] Userdefined Attributes are collected in the "Allplan Attributes" PSet	

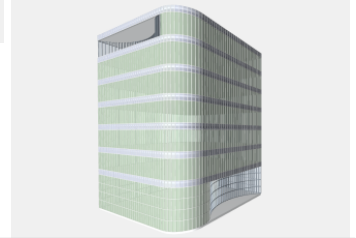
300 Type	
300-1 Type Geometry	■ [TM 2013-03-08] Typed objects are not supported in Allplan.
300-2 Type Naming	■ [TM 2013-03-08] Typed objects are not supported in Allplan.
300-3 Type Material	■ [TM 2013-03-08] Typed objects are not supported in Allplan.
300-5 Type Property Set	■ [TM 2013-03-08] Typed objects are not supported in Allplan.
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	■ [TM 2013-03-08] Geometry in general is exported as stored in Allplan (Swept Geometry or Explicit Geometry). Allplan does not use mapped Geometry except for macro placements.
040 Presentation	
040-1 Geometric Presentation	■
050 CAD Layer	■
070 Voiding	
120 Spatial Containment	■
200 Material	
200-1 Single Material	■ [TM 2013-03-08] Allplan uses Material Layer Set
200-3 Material Layer Set	■

210 Property Set	
210-1 Property Set IFC Common	■
300 Type	
300-1 Type Geometry	■ [TM 2013-03-08] Typed objects are not supported in Allplan.
300-2 Type Naming	■ [TM 2013-03-08] Typed objects are not supported in Allplan.
300-3 Type Material	■ [TM 2013-03-08] Typed objects are not supported in Allplan.
300-5 Type Property Set	■ [TM 2013-03-08] Typed objects are not supported in Allplan.
304 IfcFurnishingElement	<i>company statement</i> <i>CoveringFurnishing-01 / 2x3</i>
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	■ [TM 2013-03-08] Geometry in general is exported as stored in Allplan (Swept Geometry or Explicit Geometry). Allplan does not use mapped Geometry except for macro placements.
040 Presentation	
040-1 Geometric Presentation	■
050 CAD Layer	■
120 Spatial Containment	■

200 Material 200-1 Single Material 200-5 Material List	 [MT 2013-03-08]  Allplan supports single Material. Different materials are stored in Material Layer.
210 Property Set 210-6 Property Set IFC any 210-9 Property Set User Defined	  [TM 2013-03-08] Userdefined Attributes are collected in the "Allplan Attributes" PSet
300 Type 300-1 Type Geometry 300-2 Type Naming 300-3 Type Material 300-5 Type Property Set	 [TM 2013-03-08] Typed objects are not supported in Allplan.  [TM 2013-03-08] Typed objects are not supported in Allplan.  [TM 2013-03-08] Typed objects are not supported in Allplan.  [TM 2013-03-08] Typed objects are not supported in Allplan.
505 IfcSpace	<i>company statement</i> <i>CoveringFurnishing-01 / 2x3</i>
030 Geometry 030-3 Geometry FootPrint 030-6 Geometry Body 030-6-1 Geometry SweptSolid	 [TM 2013-03-08] Swept Geometry exported from Allplan. Optional Footprint not supported by Allplan. 
120 Spatial Containment	
130 Grouping 130-3 Grouping to Zones	 [TM 2013-03-08] Zone is not supported in Allplan.
230 Classification	 [TM 2013-03-08] No mapping from Allplan Classification to IFC Classification implemented
508 IfcZone	<i>company statement</i> <i>CoveringFurnishing-01 / 2x3</i>
001 GUIDs	 [TM 2013-03-08] Zone is not supported in Allplan.

002 History	 [TM 2013-03-08] Zone is not supported in Allplan.
010 Naming	 [TM 2013-03-08] Zone is not supported in Allplan.
130 Grouping	
130-5 Is Group	 [TM 2013-03-08] Zone is not supported in Allplan.
210 Property Set	
210-1 Property Set IFC Common	 [TM 2013-03-08] Zone is not supported in Allplan.
210-9 Property Set User Defined	 [TM 2013-03-08] Zone is not supported in Allplan.
General	<i>company statement</i> CoveringFurnishing-01 / 2x3
_G4 Remarks	

CurtainWall-01 / 2x3

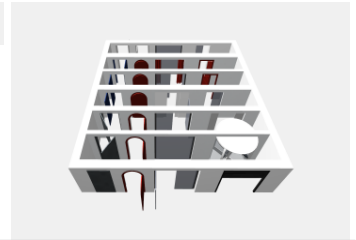


109 IfcCurtainWall	company statement		CurtainWall-01 / 2x3
001 GUIDs		■	
002 History		■	
010 Naming		■	
020 Placement			
020-1 Placement Relative		■	
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit	■	[TM 2013-03-09] Curtain Wall is exported as geometry by components. Components have explicit geometry.	
030-9 Geometry By Components		■	
040 Presentation			
040-1 Geometric Presentation	■	[TM 2013-03-09] Presentation Attributes can be set for Lining and for Panel Components. But all components must have same Color.	
050 CAD Layer		■	
100 Element Aggregation			
100-2 Element Decomposition		■	
120 Spatial Containment		■	

200 Material		
200-1 Single Material	■ [TM 2013-03-08] Allplan supports only one material Name for all components of curtain wall.	
200-5 Material List	■ [TM 2013-03-09] Material List is not supported in Allplan at all.	
210 Property Set		
210-1 Property Set IFC Common	■	
210-3 Property Set User Defined	■ [TM 2013-03-08] Userdefined Properties are collected in "Allplan Attributes" PSet	
300 Type		
300-1 Type Geometry	■ [TM 2013-03-08] Typed objects are not supported in Allplan.	
300-2 Type Naming	■ [TM 2013-03-08] Typed objects are not supported in Allplan.	
300-3 Type Material	■ [TM 2013-03-08] Typed objects are not supported in Allplan.	
300-5 Type Property Set	■ [TM 2013-03-08] Typed objects are not supported in Allplan.	
501 IfcProject	<i>company statement</i>	<i>CurtainWall-01 / 2x3</i>
010 Naming	■	
502 IfcSite	<i>company statement</i>	<i>CurtainWall-01 / 2x3</i>
010 Naming	■	
060 Location		
060-1 Geographic Location	■	
060-2 Address	■	
503 IfcBuilding	<i>company statement</i>	<i>CurtainWall-01 / 2x3</i>
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
504 IfcBuildingStorey	<i>company statement</i>	<i>CurtainWall-01 / 2x3</i>

010 Naming		
020 Placement		
020-2 Placement Relative		
060 Location		
060-4 Storey Elevation		
210 Property Set		
210-1 Property Set IFC Common		[TM 2013-03-08] Allplan does not support (IFC) properties in BuildingStorey.
General		<i>company statement</i> <i>CurtainWall-01 / 2x3</i>
_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	■	[TM 2013-03-09] In Allplan we cannot draw the doors and Windows exactly how written in requirements. The door lining can be only rectangle and the Panel is centered at the edge of lining.	
030-6-9 Geometry Mapped	■	[TM 2013-03-08] Geometry in general is exported as stored in Allplan (Swept Geometry or Explicit Geometry). Allplan does not use mapped Geometry except for macro placements.	
040 Presentation			
040-1 Geometric Presentation		■	
050 CAD Layer		■	
080 Filling			
080-2 Is Filling		■	
120 Spatial Containment		■	

200 Material <i>200-1 Single Material</i> <i>200-5 Material List</i>	■ ■ [MT 2013-03-08] Allplan supports single Material. Different materials are stored in Material Layer.
210 Property Set 210-1 Property Set IFC Common 210-2 Property Set IFC any 210-3 Property Set User Defined	■ ■ [TM 2013-03-08] The requested Properties are not supported in Allplan. ■ [TM 2013-03-08] Userdefined Attributes are collected in the "Allplan Attributes" PSet
300 Type <i>300-1 Type Geometry</i> <i>300-2 Type Naming</i> <i>300-3 Type Material</i> <i>300-5 Type Property Set</i> 300-6 Type Predefined Properties 300-6-1 Type Predefined Properties Door	■ [TM 2013-03-08] Typed objects are not supported in Allplan. ■ [TM 2013-03-08] Typed objects are not supported in Allplan. ■ [TM 2013-03-08] Typed objects are not supported in Allplan. ■ [TM 2013-03-08] Typed objects are not supported in Allplan. ■
General	<i>company statement</i>
<i>_G4 Remarks</i>	■

DoorWindow-02 / 2x3

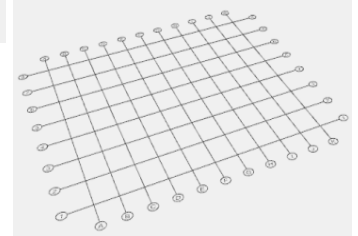


301 IfcWindow	company statement		DoorWindow-02 / 2x3
001 GUIDs	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit	■		
080 Filling			
080-2 Is Filling	■		
300 Type			
300-1 Type Geometry	■	[TM 2013-03-08] Typed objects are not supported in Allplan.	
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	[TM 2013-03-08] Typed objects are not supported in Allplan.
General	company statement
_G4 Remarks	

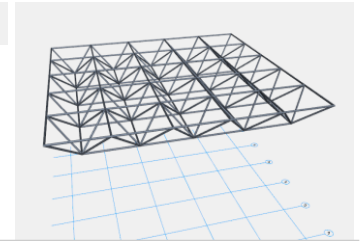
DoorWindow-02 / 2x3

Grid 01 / 2x3

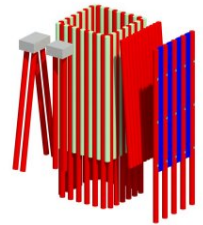


509 IfcGrid	company statement		Grid 01 / 2x3
001 GUIDs	■		
002 History	■		
010 Naming	■	[TM 2013-03-08] Grids have no name support in Allplan.	
020 Placement			
020-2 Placement Relative	■	[TM 2013-03-08] Grid is "D Element in Allplan. z-coordinate is 0.	
030 Geometry			
030-3 Geometry FootPrint	■		
040 Presentation			
040-1 Geometric Presentation	■		
050 CAD Layer	■		
120 Spatial Containment	■		
210 Property Set			
210-3 Property Set User Defined	■	[TM 2013-03-08] Userdefined Attributes are collected in the "Allplan Attributes" PSet	
270 Grid Usage			
270-1 Grid Axes	■		
General	company statement		Grid 01 / 2x3
_G4 Remarks	■	[TM 2013-03-08] Allplan supports only rectangular grid and radial grid.	

Member 01A / 2x3



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		■	[TM 2013-03-09] Allplan stores members as polyhedrons. They are exported as stored as BREPs.
030-6-2 Geometry Clipping		■	[TM 2013-03-08] Geometry Clipping is not supported with BREPs. BREPs are exported with already clipped Geometry
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		■	[TM 2013-03-08] Typed objects are not supported in Allplan.
General	company statement		Member 01A / 2x3
_G4 Remarks		■	



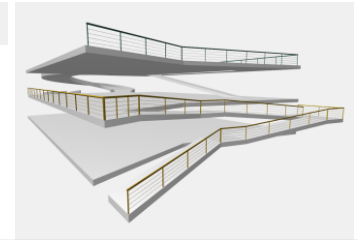
Pile 01 / 2x3

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	■	[TM 2013-03-09] Allplan stores piles as polyhedrons. They are exported as stored as BREPs.	
030-6-2 Geometry Clipping	■	[TM 2013-03-08] Geometry Clipping is not supported with BREPs. The BREP is exported with clipped coordinates.	
030-6-9 Geometry Mapped	■	[TM 2013-03-08] Geometry in general is exported as stored in Allplan (Swept Geometry or Explicit Geometry). Allplan does not use mapped Geometry except for macro placements.	
040 Presentation			
040-1 Geometric Presentation		■	
040-2 Material Presentation		■	
050 CAD Layer		■	
070 Voiding			
070-3 Voiding Geometry SweptSolid	■	[TM 2013-03-08] If Pile is exported as BREP, the opening is part of the BREP and not own object	

100 Element Aggregation <i>100-2 Element Decomposition</i>	 [TM 2013-03-08] Object is stored with complete geometry in Allplan and exported this way.
120 Spatial Containment	
200 Material <i>200-1 Single Material</i>	
210 Property Set <i>210-3 Property Set User Defined</i>	 [TM 2013-03-08] Userdefined Attributes are collected in the "Allplan Attributes" PSet
300 Type <i>300-1 Type Geometry</i> <i>300-3 Type Material</i> <i>300-5 Type Property Set</i>	 [TM 2013-03-08] Typed objects are not supported in Allplan.  [TM 2013-03-08] Typed objects are not supported in Allplan.  [TM 2013-03-08] Typed objects are not supported in Allplan.
General	<i>company statement</i>
<i>_G4 Remarks</i>	

Pile 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		■	[TM 2013-03-08] Object is stored with complete geometry in Allplan and exported this way.
040 Presentation			
040-1 Geometric Presentation		■	
050 CAD Layer		■	
100 Element Aggregation			
100-2 Element Decomposition		■	[TM 2013-03-08] Object is stored with complete geometry in Allplan and exported this way.
120 Spatial Containment		■	
200 Material			
200-1 Single Material		■	

210 Property Set	
210-1 Property Set IFC Common	■
210-3 Property Set User Defined	■ [TM 2013-03-08] Userdefined Attributes are collected in the "Allplan Attributes" PSet
108 IfcRailing	<i>company statement</i> <i>RampRailing-01 / 2x3</i>
001 GUIDs	■
002 History	■
010 Naming	■
020 Placement	
020-2 Placement Relative	■
030 Geometry	
030-6 Geometry Body	
030-6-1 Geometry SweptSolid	■ [TM 2013-03-09] Railing is defined as macro in Allplan and has only explicit geometry.
030-6-5 Geometry Explicit	■
030-6-9 Geometry Mapped	■ [TM 2013-03-08] Geometry in general is exported as stored in Allplan (Swept Geometry or Explicit Geometry). Allplan does not use mapped Geometry except for macro placements.
040 Presentation	
040-1 Geometric Presentation	■
050 CAD Layer	■
120 Spatial Containment	■
200 Material	
200-1 Single Material	■
200-5 Material List	■ [MT 2013-03-08] Allplan supports single Material. Different materials are stored in Material Layer.

210 Property Set	
210-1 Property Set IFC Common	[TM 2013-03-08] Allplan supports only following IFC Properties for Railing: Reference, IsExternal
210-3 Property Set User Defined	[TM 2013-03-08] Userdefined Attributes are collected in the "Allplan Attributes" PSet
General	<i>company statement</i> RampRailing-01 / 2x3
_G4 Remarks	

RandomArch-X1 / 2x3

101 IfcWallStandardCase	company statement		RandomArch-X1 / 2x3
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		■	
070 Voiding			
070-2 Voiding Geometry Explicit		■	
080 Filling			
081 Has Filling			
081-1 Has Filling Door		■	
200 Material			
200-4 Material Layer Usage		■	
210 Property Set			
210-3 Property Set User Defined		■	
102 IfcWall	company statement		RandomArch-X1 / 2x3
020 Placement			
020-2 Placement Relative		■	

030 Geometry	
030-2 Geometry Axis	[TM 2013-03-09] Polygonal and Spline Walls in Allplan have no Axis
030-6 Geometry Body	
030-6-1 Geometry SweptSolid	
030-6-2 Geometry Clipping	
070 Voiding	
070-1 Voiding Geometry Explicit	
080 Filling	
080-1 Has Filling	
080-1-1 Has Filling Door	
080-1-2 Has Filling Window	
General	company statement
RandomArch-X1 / 2x3	
_G4 Remarks	

RandomArch-X2 / 2x3

303 IfcCovering		<i>company statement</i>	<i>RandomArch-X2 / 2x3</i>
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
040 Presentation			
040-2 Material Presentation	■		
050 CAD Layer	■		
120 Spatial Containment	■		
200 Material			
200-3 Material Layer Set	■		
505 IfcSpace		<i>company statement</i>	<i>RandomArch-X2 / 2x3</i>
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-6 Geometry Body			
030-6-2 Geometry Clipping	■		

General	company statement	RandomArch-X2 / 2x3
_G4 Remarks		

RandomArch-X3 / 2x3

101 IfcWallStandardCase		company statement	RandomArch-X3 / 2x3
070 Voiding			
070-1 Voiding Geometry SweptSolid	■		
102 IfcWall		company statement	RandomArch-X3 / 2x3
070 Voiding			
070-1 Voiding Geometry Explicit	■		
301 IfcWindow		company statement	RandomArch-X3 / 2x3
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit	■		
080 Filling			
080-2 Is Filling	■		
200 Material			
200-1 Single Material	■		
210 Property Set			
210-1 Property Set IFC Common	■		
210-2 Property Set IFC any	■		

300 Type		
300-6 Type Predefined Properties		
300-6-1 Type Predefined Properties Window	■	
302 IfcDoor	company statement RandomArch-X3 / 2x3	
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-6 Geometry Body		
030-6-5 Geometry Explicit	■	
080 Filling		
080-2 Is Filling	■	
200 Material		
200-1 Single Material	■	
210 Property Set		
210-1 Property Set IFC Common	■	
210-2 Property Set IFC any	■	
300 Type		
300-6 Type Predefined Properties		
300-6-1 Type Predefined Properties Door	■	
General	company statement RandomArch-X3 / 2x3	
_G4 Remarks	■	

RandomArch-X4 / 2x3

105 IfcSlab		<i>company statement</i>	<i>RandomArch-X4 / 2x3</i>
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
050 CAD Layer	■		
070 Voiding			
070-3 Voiding Geometry SweptSolid	■		
200 Material			
200-2 Material Layer Set	■		
403 IfcFooting		<i>company statement</i>	<i>RandomArch-X4 / 2x3</i>
010 Naming	■		
020 Placement			
020-1 Placement Relative	■		

030 Geometry	
030-2 Geometry Axis	■
030-6 Geometry Body	
030-6-1 Geometry SweptSolid	■
030-6-5 Geometry Explicit	■
050 CAD Layer	■
200 Material	
200-1 Single Material	■
General	company statement
RandomArch-X4 / 2x3	
_G4 Remarks	■

RandomArch-X5 / 2x3

101 IfcWallStandardCase	company statement		RandomArch-X5 / 2x3
030 Geometry			
030-6 Geometry Body			
030-6-2 Geometry Clipping		■	
050 CAD Layer		■	
080 Filling			
081 Has Filling			
081-2 Has Filling Window		■	
120 Spatial Containment		■	
103 IfcBeam	company statement		RandomArch-X5 / 2x3
010 Naming		■	
020 Placement			
020-2 Placement Relative		■	
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit		■	
050 CAD Layer		■	
120 Spatial Containment		■	
200 Material			
200-1 Single Material		■	

210 Property Set		
210-1 Property Set IFC Common	■	
105 IfcSlab		company statement RandomArch-X5 / 2x3
030 Geometry		
030-9 Geometry By Components	■	
050 CAD Layer	■	
100 Element Aggregation		
100-1 Element Composition	■	
100-2 Element Decomposition	■	
200 Material		
200-1 Single Material	■	
110 IfcRoof		company statement RandomArch-X5 / 2x3
010 Naming	■	
100 Element Aggregation		
100-2 Element Decomposition	■	
120 Spatial Containment	■	
210 Property Set		
210-1 Property Set IFC Common	■	
General		company statement RandomArch-X5 / 2x3
_G4 Remarks	■	

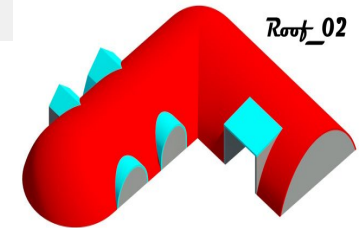
Roof 01 / 2x3



101 IfcWallStandardCase	company statement	Roof 01 / 2x3
030 Geometry 030-6 Geometry Body 030-6-1 Geometry SweptSolid 030-6-2 Geometry Clipping		
105 IfcSlab	company statement	Roof 01 / 2x3
030 Geometry 030-6 Geometry Body 030-6-1 Geometry SweptSolid 030-6-2 Geometry Clipping 030-6-9 Geometry Mapped	[TM 2013-03-09] Roof Slabs have always explicit geometry in Allplan. [TM 2013-03-08] Geometry Clipping is not supported with BREPs. The BREP is exported with clipped coordinates. [TM 2013-03-08] Geometry in general is exported as stored in Allplan (Swept Geometry or Explicit Geometry). Allplan does not use mapped Geometry except for macro placements.	
070 Voiding 070-3 Voiding Geometry SweptSolid	[TM 2013-03-08] If elements are exported with explicit geometry, also the openings are either contained in the geometry or have explicit voiding geometry.	
080 Filling 080-1 Has Filling 080-1-2 Has Filling Window		

200 Material		
200-2 Material Layer Set	 [TM 2013-03-09] Material Layer Set can not be used for explicit geometry.	
110 IfcRoof	<i>company statement</i>	<i>Roof 01 / 2x3</i>
030 Geometry		
030-1 Geometry Box	 [TM 2013-03-08] Allplan delivers the correct Geometry. The optional Bounding Box is not supported in IFC Export.	
040 Presentation		
040-1 Geometric Presentation		
040-2 Material Presentation		
100 Element Aggregation		
100-2 Element Decomposition	 [TM 2013-03-08] Object is stored with complete geometry in Allplan and exported this way. In this special case, the "decomposition" has been added manually, as it is not possible to draw such a roof as one object.	
120 Spatial Containment		
200 Material		
200-1 Single Material		
General	<i>company statement</i>	<i>Roof 01 / 2x3</i>
_G4 Remarks		

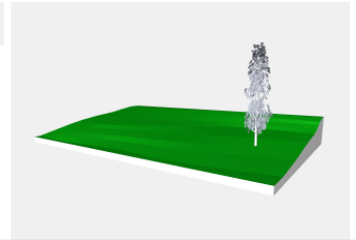
Roof 02 / 2x3



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		■ [TM 2013-03-08] Object is stored with complete geometry in Allplan and exported this way.	
210 Property Set			
210-1 Property Set IFC Common		■	
210-3 Property Set User Defined		■ [TM 2013-03-08] Userdefined Attributes are collected in the "Allplan Attributes" PSet	

General	company statement	Roof 02 / 2x3
_G4 Remarks		

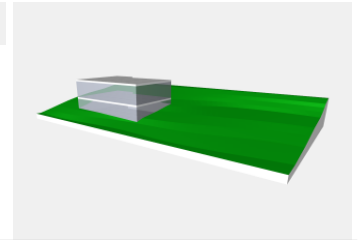
Site 01 / 2x3



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	■	[TM 2013-03-08] Allplan delivers the correct Geometry. The optional Bounding Box is not supported in IFC Export.	
030-3 Geometry FootPrint	■	[TM 2013-03-08] Explicit Geometry exported from Allplan. Optional Footprint not supported by Allplan.	
030-6 Geometry Body			
030-6-5 Geometry Explicit		■	
040 Presentation			
040-1 Geometric Presentation	■	[TM 2013-03-08] Allplan has fixed 256 predefined Colors. The Color requested in testcase is not exactly available.	
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	■		

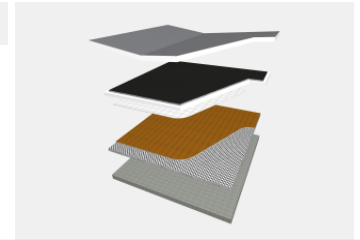
Site 02 / 2x3



502 IfcSite	company statement		Site 02 / 2x3
010 Naming	■		
020 Placement			
020-1 Placement Absolute	■		
030 Geometry			
030-3 Geometry FootPrint	■	[TM 2013-03-08] Explicit Geometry exported from Allplan. Optional Footprint not supported by Allplan.	
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	■	[TM 2013-03-08] Userdefined Attributes are collected in the "Allplan Attributes" PSet	
503 IfcBuilding	company statement		Site 02 / 2x3
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		

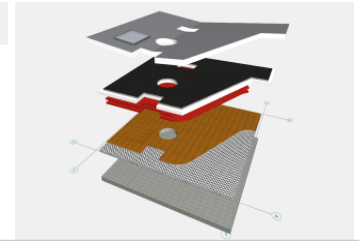
150 Spatial Aggregation	
150-1 Spatial Composition	■
150-2 Spatial Decomposition	■
210 Property Set	
210-1 Property Set IFC Common	■
General	company statement
Site 02 / 2x3	
_G4 Remarks	■

Slab 01A / 2x3



105 IfcSlab	company statement		Slab 01A / 2x3
010 Naming	■		
020 Placement			
020-2 Placement Relative	■	[TM 2013-03-08] Allplan stores Geometry in absolut coordinates. When BREPs are exported, the stored Geometry has to be used.	
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
030-6-2 Geometry Clipping	■	[TM 2013-03-08] Geometry Clipping is not supported with BREPs. The BREP is exported with clipped coordinates.	
050 CAD Layer	■		
200 Material			
200-2 Material Layer Set	■	[TM 2013-03-08] Allplan supports only one material layer in slabs.	
200-3 Material Layer Usage	■	[TM 2013-03-08] Allplan supports only one material layer in slabs.	
210 Property Set			
210-1 Property Set IFC Common	■		
General	company statement		Slab 01A / 2x3
_G4 Remarks	■		

Slab 02A / 2x3



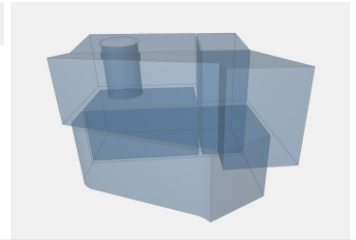
105 IfcSlab	company statement		Slab 02A / 2x3
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-1 Geometry Box	■	[TM 2013-03-08] Allplan delivers the correct Geometry. The optional Bounding Box is not supported in IFC Export.	
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
030-6-2 Geometry Clipping	■	[TM 2013-03-08] Geometry Clipping is not supported with BREPs. The BREP is exported with clipped coordinates.	
030-6-5 Geometry Explicit	■		
030-6-9 Geometry Mapped	■	[TM 2013-03-08] Geometry in general is exported as stored in Allplan (Swept Geometry or Explicit Geometry). Allplan does not use mapped Geometry except for macro placements.	
070 Voiding			
070-1 Voiding Geometry Explicit	■		
070-2 Voiding Geometry Mapped	■	[TM 2013-03-08] Geometry in general is exported as stored in Allplan (Swept Geometry or Explicit Geometry). Allplan does not use mapped Geometry except for macro placements.	
070-3 Voiding Geometry SweptSolid	■		

080 Filling	
080-1 Has Filling	
080-1-1 Has Filling Door	[TM 2013-03-08] Allplan has only general openings in slabs, no window or door opening are possible here.
080-1-2 Has Filling Window	[TM 2013-03-08] Allplan has only general openings in slabs, no window or door opening are possible here.
120 Spatial Containment	
130 Grouping	
130-1 Grouping General	[TM 2013-03-08] Allplan does not Support grouping of Slabs
200 Material	
200-1 Single Material	
200-2 Material Layer Set	[TM 2013-03-08] Allplan supports only one material layer in slabs.
210 Property Set	
210-1 Property Set IFC Common	[TM 2013-03-08] Allplan supports following Common Attributes for Slabs: Reference, AcousticRating, FireRating, Combustible, SurfaceSpreadOfFlame, ThermalTransmittance, IsExternal, LoadBearing, Compartmentation
210-2 Property Set IFC any	[TM 2013-03-08] The requested Properties are not supported in Allplan.
210-3 Property Set User Defined	
300 Type	
300-1 Type Geometry	[TM 2013-03-08] Typed objects are not supported in Allplan.
300-2 Type Naming	[TM 2013-03-08] Typed objects are not supported in Allplan.
300-3 Type Material	[TM 2013-03-08] Typed objects are not supported in Allplan.
300-5 Type Property Set	[TM 2013-03-08] Typed objects are not supported in Allplan.
General	company statement

Slab 02A / 2x3

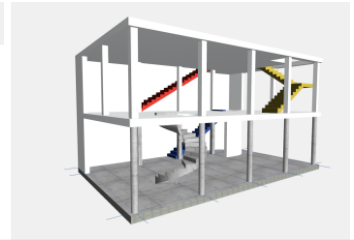
<i>_G4 Remarks</i>	 [TM 2013-03-08] Allplan supports only one material layer in slabs.
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Space 01A / 2x3



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		■	

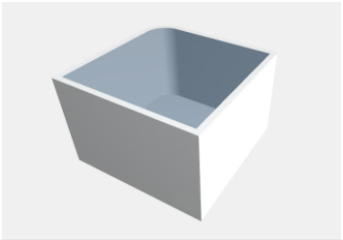
StairSlab-01 / 2x3



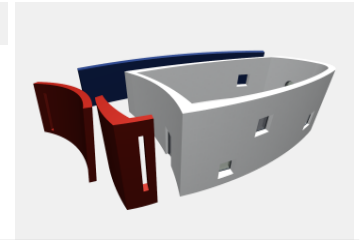
105 IfcSlab		company statement	StairSlab-01 / 2x3
001 GUIDs		■	
002 History		■	
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid		■	
040 Presentation			
040-1 Geometric Presentation		■	
040-2 Material Presentation		■	
070 Voiding			
070-3 Voiding Geometry SweptSolid		■	
106 IfcStair		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	■	[TM 2013-03-08] Object is stored with complete geometry in Allplan and exported this way.
040 Presentation		
040-1 Geometric Presentation	■	
050 CAD Layer	■	
100 Element Aggregation		
100-2 Element Decomposition	■	[TM 2013-03-08] Object is stored with complete geometry in Allplan and exported this way.
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		[TM 2013-03-08] Plane angle input and storage in Allplan is in degrees.	
005-2 Project Imperial Units			
General	company statement		UnitTest-01A / 2x3
_G4 Remarks			

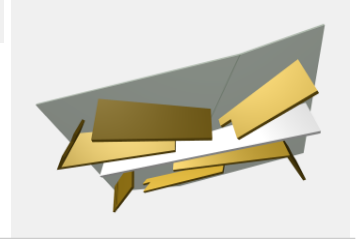
Wall 01 / 2x3



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	■	[TM 2013-03-09] Allplan supports no swept solid geometry for such types of walls, only for straight walls.	
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	■	[TM 2013-03-09] Wall is drawn in Allplan as 3DSolid, which includes the openings directly in the geometry.	
070-3 Voiding Geometry SweptSolid	■	[TM 2013-03-08] If elements are exported with explicit geometry, also the openings are either contained in the geometry or have explicit voiding geometry.	

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	■	[TM 2013-03-08] Typed objects are not supported in Allplan.
300-5 Type Property Set	■	[TM 2013-03-08] Typed objects are not supported in Allplan.
301 IfcWindow		<i>company statement</i> Wall 01 / 2x3
020 Placement		
020-2 Placement Relative	■	
302 IfcDoor		<i>company statement</i> Wall 01 / 2x3
020 Placement		
020-2 Placement Relative	■	
General		<i>company statement</i> Wall 01 / 2x3
_G4 Remarks	■	

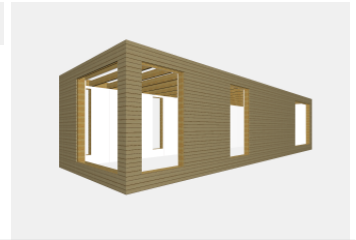
Wall 02 / 2x3



102 IfcWall	company statement		Wall 02 / 2x3
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-2 Geometry Axis	■	[TM 2013-03-09] 3D Solid and Polygon Wall have no Axis in Allplan.	
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■	[TM 2013-03-08] Testcases are drawn as profile wall and exported with explicit geometry	
030-6-2 Geometry Clipping	■	[TM 2013-03-08] Geometry Clipping is not supported with BREPs. The BREP is exported with clipped coordinates.	
030-6-5 Geometry Explicit	■		
050 CAD Layer	■		
070 Voiding			
070-1 Voiding Geometry Explicit	■		
070-3 Voiding Geometry SweptSolid	■	[TM 2013-03-08] As swept Solid is not supported in this Testcases in Allplan, also the voids have explicit geometry	
120 Spatial Containment	■		
130 Grouping			
130-1 Grouping General	■	[TM 2013-03-08] Allplan does not support grouping of walls	

200 Material		
200-3 Material Layer Set	[TM 2013-03-09] We Export only BREPs from Allplan in this Testcase.	
300 Type		
300-2 Type Naming	[TM 2013-03-08] Typed objects are not supported in Allplan.	
General	company statement	Wall 02 / 2x3
_G4 Remarks		

WallSlab 03 / 2x3

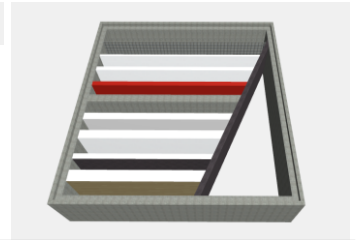


102 IfcWall		company statement	WallSlab 03 / 2x3
010 Naming		■	
020 Placement			
020-2 Placement Relative		■	
030 Geometry			
030-9 Geometry By Components		■ [TM 2013-03-08] Object is stored with complete geometry in Allplan and exported this way.	
070 Voiding			
070-3 Voiding Geometry SweptSolid		■	
100 Element Aggregation			
100-2 Element Decomposition		■ [TM 2013-03-08] Object is stored with complete geometry in Allplan and exported this way.	
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		■ [TM 2013-03-08] Object is stored with complete geometry in Allplan and exported this way.	

100 Element Aggregation <i>100-2 Element Decomposition</i>	 [TM 2013-03-08] Object is stored with complete geometry in Allplan and exported this way.	
501 IfcProject	<i>company statement</i>	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	<i>company statement</i>	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	<i>company statement</i>	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		

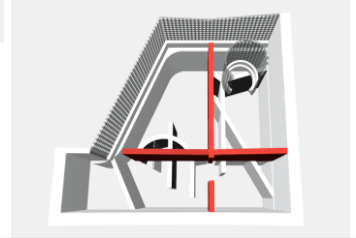
WallStandardCase 01A / 2x3



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	■	[TM 2013-03-08] Allplan supports only 5 material Layers in Wall.	
210 Property Set			
210-3 Property Set User Defined		■	

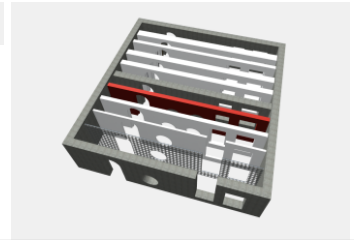
300 Type	
300-3 Type Material	[TM 2013-03-08] Typed objects are not supported in Allplan.
300-5 Type Property Set	[TM 2013-03-08] Typed objects are not supported in Allplan.
General	company statement
WallStandardCase 01A / 2x3	
_G4 Remarks	

WallStandardCase 02A / 2x3



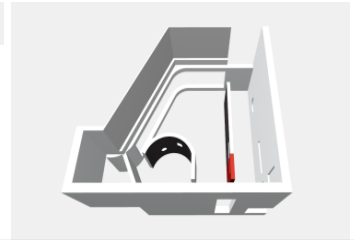
101 IfcWallStandardCase		company statement	WallStandardCase 02A / 2x3
010 Naming		■	
020 Placement			
020-2 Placement Relative		■	
030 Geometry			
030-2 Geometry Axis		■	
030-6 Geometry Body			
030-6-1 Geometry SweptSolid		■	
030-6-2 Geometry Clipping		■	
050 CAD Layer		■	
110 Connectivity			
110-2 Connectivity Path		■ [TM 2013-03-09] Connectivity Path in Allplan is not stored, but calculated from Walls. It's implemented for straight walls, but not for rounded walls.	
120 Spatial Containment		■	
200 Material			
200-4 Material Layer Usage		■ [TM 2013-03-08] Allplan supports only 5 Material layers in Wall.	
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	■	[TM 2013-03-08] Allplan exports openings as SweptSolid in this case, as arbitrary or rectangular profile are used.	
070-3 Voiding Geometry Mapped	■	[TM 2013-03-08] Geometry in general is exported as stored in Allplan (Swept Geometry or Explicit Geometry). Allplan does not use mapped Geometry except for macro placements.	
120 Spatial Containment	■		
General	company statement		WallStandardCase 03A / 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	■	[TM 2013-03-08] Geometry in general is exported as stored in Allplan (Swept Geometry or Explicit Geometry). Allplan does not use mapped Geometry except for macro placements.	
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	■	[TM 2013-03-08] Geometry in general is exported as stored in Allplan (Swept Geometry or Explicit Geometry). Allplan does not use mapped Geometry except for macro placements.	
040 Presentation			
040-1 Geometric Presentation	■		
050 CAD Layer	■		
080 Filling			
080-2 Is Filling	■		
120 Spatial Containment	■		

200 Material <i>200-1 Single Material</i> <i>200-5 Material List</i>	  [MT 2013-03-08] Allplan supports single Material. Different materials are stored in Material Layer.
210 Property Set 210-1 Property Set IFC Common 210-2 Property Set IFC any 210-3 Property Set User Defined	  [TM 2013-03-08] The requested Properties are not supported in Allplan. 
300 Type <i>300-1 Type Geometry</i> <i>300-2 Type Naming</i> <i>300-3 Type Material</i> <i>300-5 Type Property Set</i> 300-6 Type Predefined Properties 300-6-1 Type Predefined Properties Window	 [TM 2013-03-08] Typed objects are not supported in Allplan.  [TM 2013-03-08] Typed objects are not supported in Allplan.  [TM 2013-03-08] Typed objects are not supported in Allplan.  [TM 2013-03-08] Typed objects are not supported in Allplan. 
General	<i>company statement</i>
<i>_G4 Remarks</i>	