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Introduction

IFC Import Allplan 2015

The currently released Version is Allplan 2014-1-2.

General Availability of the IFC Interfaces in Allplan 2015

Allplan 2015 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 Import Interfaces

The certified IFC Import will be available in Allplan 2015-0. Shipping of this Version is currently planned in mid of July 2014. Preliminary planned Version number is 2015-0-0.

Munich, 07 May 2014

Nemetschek Allplan Systems GmbH

Testlist

Name test	concepts total	manually checked		
				
BeamColumn 04 / 2x3	47	14	24	9
Beam_01 / 2x3	10	7	3	
CharsetTest-01A / 2x3	2	2		
CharsetTest-01MEP / 2x3	2	2		
Column 01 / 2x3	11	8	3	
CoveringFurnishing-01 / 2x3	57	29	16	12
CurtainWall-01 / 2x3	29	13	10	6
Door 01 / 2x3	22	12	7	3
DuplexHouse_Ventilation / 2x3	44	25	4	15
Grid 01 / 2x3				11
Member_01S / 2x3	10	4	4	2
Pile 01 / 2x3	19	7	11	1
PlateFastener-01 / 2x3	67	29	28	10
RampRailing-01 / 2x3	28	17	9	2
RandomArch-X1 VW / 2x3	18	6	8	4
RandomArch-X2 AC16 / 2x3	12	6	3	3
RandomArch-X3 RAC / 2x3	9	9		
RandomArch-X4 Allplan2013 / 2x3	14	9	3	2
RandomArch-X5 AC16 / 2x3	9	6	1	2
RandomMEP-X1 RME / 2x3	10	8	2	
RandomMEP-X4 RME / 2x3	6	1		5
RandomMEP-X5 BENCH / 2x3	32	18	5	9
RandomStruc-X1 RST / 2x3	11	4	4	2
RandomStruc-X2 Scia / 2x3				10
RandomStruc-X3 SDS2 / 2x3	17	7	9	1
RandomStruc-X3 TS / 2x3	9	7	1	1



Supported



Restricted

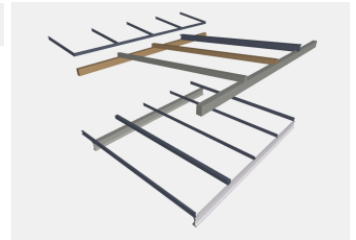


Not Supported

Name test	concepts total	manually checked		
				
RandomStruc-X5 Scia / 2x3	9	8	1	
ReplacementTest_forRoof-01 Scia / 2x3	12	6	6	
ReplacementTest_forStairSlab-01 SDS2 / 2x3	42	19	18	5
ReplacementTest_forWall-01 TS / 2x3	10	7	3	
Roof 01 / 2x3	15	5	7	3
Site 02 / 2x3	13	7	4	2
Slab 02S / 2x3	22	11	7	4
Space 01A / 2x3	12	10		2
StairSlab-01 / 2x3	19	13	4	2
UnitTest-01A / 2x3	3	1	2	
WallSlab 03 / 2x3	32	17	8	7
WallStandardCase 01A / 2x3	15	10	4	1
WallStandardCase 02S / 2x3	11	10		1
WallStandardCase 04A / 2x3	8	4	4	
Window 01 / 2x3	22	10	9	3

Concepts

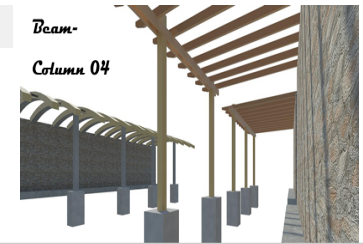
Beam_01 / 2x3



103 IfcBeam	company statement		Beam_01 / 2x3
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■	Only horizontal not slopen, not clipped beams with rectangle profile are imported as beam. Others are brep objects.	
030-6-2 Geometry Clipping	■	No clipping, all are imported as brep objects.	
040 Presentation			
040-1 Geometric Presentation	■		
040-2 Material Presentation	■	Allplan support only name of material. Material presentation information is assigned to the element only if element does not contain presentation information.	
120 Spatial Containment	■		
200 Material			
200-1 Single Material	■		

210 Property Set		
210-1 Property Set IFC Common	■	
General		<i>company statement</i> <i>Beam_01 / 2x3</i>
_G4 Remarks	■	

BeamColumn 04 / 2x3



103 IfcBeam	company statement	BeamColumn 04 / 2x3
001 GUIDs	■	
002 History	■ Owner history in Allplan not supported.	
010 Naming	■	
020 Placement 020-2 Placement Relative	■	
030 Geometry 030-6 Geometry Body 030-6-1 Geometry SweptSolid 030-6-9 Geometry Mapped	■ Only horizontal beams with rectangle profile created as beam. Other are 3d solid. ■ Mapping wouldn't be preserved, each element imported as standalone.	

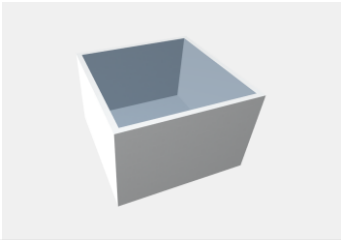
070 Voiding	
070-1 Voiding Geometry Explicit	 Included in geometry or created as special opening which is not editable.
070-2 Voiding Geometry Mapped	 Mapping wouldn't be preserved, will be included in geometry or created as special opening which is not editable.
070-3 Voiding Geometry SweptSolid	 Included in the element geometry or created as special openings which are not editable.
130 Grouping	
130-1 Grouping General	 Grouping is not imported.
200 Material	
200-1 Single Material	 Material name is restricted to 32 characters.
210 Property Set	
210-1 Property Set IFC Common	
210-3 Property Set User Defined	
300 Type	
300-1 Type Geometry	 Every element has its own geometry.
300-2 Type Naming	 Type name not imported.
300-3 Type Material	 Assigned to the elements.
300-5 Type Property Set	 Assigned to the elements.
104 IfcColumn	<i>company statement</i>

001 GUIDs		
002 History		Owner history in Allplan not supported.
010 Naming		
020 Placement		
020-2 Placement Relative		
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid		All columns imported as brep 3d object.
030-6-9 Geometry Mapped		Mapping wouldn't be preserved, each element imported as standalone.
070 Voiding		
070-1 Voiding Geometry Explicit		Included in geometry or created as special opening which is not editable.
070-2 Voiding Geometry Mapped		Mapping wouldn't be preserved, will be included in geometry or created as special opening which is not editable.
070-3 Voiding Geometry SweptSolid		Included in the element geometry or created as special openings which are not editable.
130 Grouping		
130-1 Grouping General		Grouping is not imported.
200 Material		
200-1 Single Material		Material name is restricted to 32 characters.
210 Property Set		
210-2 Property Set IFC any		

300 Type	
300-1 Type Geometry	 Every element has its own geometry.
300-2 Type Naming	 Type name not imported.
300-3 Type Material	 Assigned to the elements.
300-5 Type Property Set	 Assigned to the elements.
403 IfcFooting	<i>company statement</i> BeamColumn 04 / 2x3
001 GUIDs	
002 History	 Owner history in Allplan not supported.
010 Naming	
020 Placement	
020-1 Placement Relative	
030 Geometry	
030-6 Geometry Body	
030-6-1 Geometry SweptSolid	 All footings imported as brep 3d object.
030-6-9 Geometry Mapped	 Mapping wouldn't be preserved, each element imported as standalone.
130 Grouping	
130-1 Grouping General	 Grouping is not imported.
200 Material	
200-1 Single Material	 Material name is restricted to 32 characters.

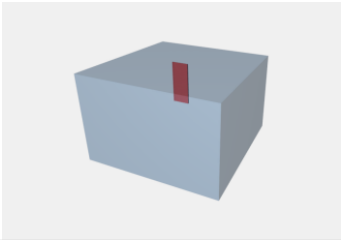
210 Property Set		
210-2 Property Set IFC any		
300 Type		
300-1 Type Geometry		Every element has its own geometry.
300-2 Type Naming		Type name not imported.
300-3 Type Material		Assigned to the elements.
300-5 Type Property Set		Assigned to the elements.
General	company statement	
_G4 Remarks		

CharsetTest-01A / 2x3



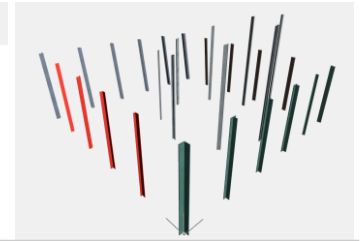
General	company statement		CharsetTest-01A / 2x3
_G1 Character sets		■	
_G4 Remarks		■	

CharsetTest-01MEP / 2x3



General	company statement		CharsetTest-01MEP / 2x3
_G1 Character sets	■		
_G4 Remarks	■	Property values with IfcString type are not imported.	

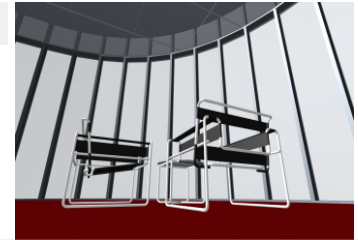
Column 01 / 2x3



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	■	Sloped columns imported as brep object.	
030-6-2 Geometry Clipping	■	Clipped sloped columns imported as brep object.	
040 Presentation			
040-1 Geometric Presentation	■		
040-2 Material Presentation	■	Allplan support only name of material. Material presentation information is assigned to the element only if element does not contain presentation information.	
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	■	Mapping wouldn't be preserved, each element imported as standalone.	
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	■	Name of property set not supported, but properties are imported.	

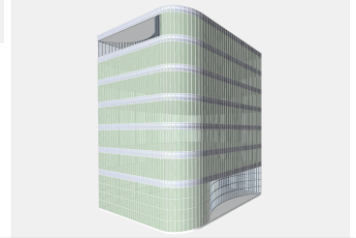
300 Type	
300-1 Type Geometry	 Every element has its own geometry.
300-2 Type Naming	 Type name not imported.
300-3 Type Material	 Assigned to the elements.
300-5 Type Property Set	 Assigned to the elements.
303 IfcCovering	<i>company statement</i> CoveringFurnishing-01 / 2x3
010 Naming	
020 Placement	
020-2 Placement Relative	
030 Geometry	
030-6 Geometry Body	
030-6-1 Geometry SweptSolid	
030-6-9 Geometry Mapped	 Mapping wouldn't be preserved, each element imported as standalone.
040 Presentation	
040-1 Geometric Presentation	
050 CAD Layer	
070 Voiding	
120 Spatial Containment	
200 Material	
200-1 Single Material	 Material name is restricted to 32 characters.
200-3 Material Layer Set	
210 Property Set	
210-1 Property Set IFC Common	

300 Type		
300-1 Type Geometry		Every element has its own geometry.
300-2 Type Naming		Type name not imported.
300-3 Type Material		Assigned to the elements.
300-5 Type Property Set		Assigned to the elements.
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		Material name is restricted to 32 characters.
200-5 Material List		All material written in one row, max 32 chars.

210 Property Set		
210-6 Property Set IFC any		
210-9 Property Set User Defined		Name of property set not supported, but properties are imported.
300 Type		
300-1 Type Geometry		Every element has its own geometry.
300-2 Type Naming		Type name not imported.
300-3 Type Material		Assigned to the elements.
300-5 Type Property Set		Assigned to the elements.
505 IfcSpace		<i>company statement</i> CoveringFurnishing-01 / 2x3
030 Geometry		
030-3 Geometry FootPrint		FootPrint geometry not supported in Allplan
030-6 Geometry Body		
030-6-1 Geometry SweptSolid		
120 Spatial Containment		
130 Grouping		
130-3 Grouping to Zones		Zones not supported in Allplan.
230 Classification		No classification imported.
508 IfcZone		<i>company statement</i> CoveringFurnishing-01 / 2x3
001 GUIDs		Zones not supported in Allplan.
002 History		Zones not supported in Allplan.
010 Naming		Zones not supported in Allplan.

130 Grouping	
130-5 Is Group	Zones not supported in Allplan.
210 Property Set	
210-1 Property Set IFC Common	Zones not supported in Allplan.
210-9 Property Set User Defined	Zones not supported in Allplan.
General	company statement CoveringFurnishing-01 / 2x3
_G4 Remarks	

CurtainWall-01 / 2x3

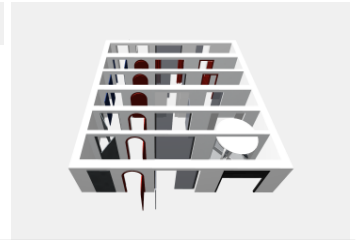


109 IfcCurtainWall	company statement		CurtainWall-01 / 2x3
001 GUIDs	■		
002 History	■	Owner history in Allplan not supported.	
010 Naming	■		
020 Placement			
020-1 Placement Relative	■		
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit	■		
030-9 Geometry By Components	■	Not a real composite element but a group.	
040 Presentation			
040-1 Geometric Presentation	■		
050 CAD Layer	■		
100 Element Aggregation			
100-2 Element Decomposition	■	Not a real composite element but a group.	
120 Spatial Containment	■		

200 Material		
200-1 Single Material		Material name is restricted to 32 characters.
200-5 Material List		Allplan has no material list. All materials are listed in one row.
210 Property Set		
210-1 Property Set IFC Common		
210-3 Property Set User Defined		Name for property set no supported, but all properties are imported.
300 Type		
300-1 Type Geometry		Every element has its own geometry.
300-2 Type Naming		Type name not imported.
300-3 Type Material		Assigned to the elements.
300-5 Type Property Set		Assigned to the elements.
501 IfcProject		<i>company statement</i> CurtainWall-01 / 2x3
010 Naming		It is possible to import only to existing project. No project attributes stored.
502 IfcSite		<i>company statement</i> CurtainWall-01 / 2x3
010 Naming		
060 Location		
060-1 Geographic Location		Attributes for site in Allplan not supported.
060-2 Address		Attributes for site in Allplan not supported.
503 IfcBuilding		<i>company statement</i> CurtainWall-01 / 2x3
010 Naming		

020 Placement		
020-2 Placement Relative	 Building in Allplan has no position, but it's placement is considered in element position calculation.	
504 IfcBuildingStorey	<i>company statement</i>	<i>CurtainWall-01 / 2x3</i>
010 Naming		
020 Placement		
020-2 Placement Relative	 Storey in Allplan has no position, but it's placement is considered in element position calculation.	
060 Location		
060-4 Storey Elevation		
210 Property Set		
210-1 Property Set IFC Common	 Allplan has no properties for building storey.	
General	<i>company statement</i>	<i>CurtainWall-01 / 2x3</i>
_G4 Remarks		

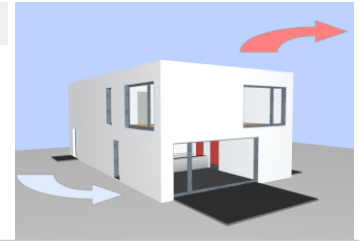
Door 01 / 2x3



302 IfcDoor	company statement		Door 01 / 2x3
001 GUIDs	■		
002 History	■	Owner history in Allplan not supported.	
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-5 Geometry Profile	■	Geometry profile not imported.	
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	■	If not in Allplan wall or cannot be imported as Allplan door, just brep object is created.	
120 Spatial Containment	■		

200 Material 200-1 Single Material 200-5 Material List	Material name is restricted to 32 characters. Material list no used in Allplan, materials listed in one row as single material.
210 Property Set 210-1 Property Set IFC Common 210-2 Property Set IFC any 210-3 Property Set User Defined	
300 Type 300-1 Type Geometry 300-2 Type Naming 300-3 Type Material 300-5 Type Property Set 300-6 Type Predefined Properties 300-6-1 Type Predefined Properties Door	Every element has its own geometry. Type name not imported. Assigned to the elements. Assigned to the elements. Parameters preserved only when it is imported as Allplan door in Allplan wall. Otherwise all door parameters are lost.
General	company statement Door 01 / 2x3
_G4 Remarks	

DuplexHouse_Ventilation / 2x3



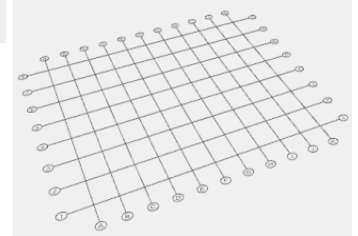
206 IfcFlowFitting		company statement	DuplexHouse_Ventilation / 2x3
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■	Imported as brep object.	
030-6-5 Geometry Explicit	■		
030-6-9 Geometry Mapped	■		
040 Presentation			
040-1 Geometric Presentation	■		
100 Element Aggregation			
100-4 Port Assignment	■	Ports and it's connections are not imported.	
110 Connectivity			
110-5 Connectivity by Ports	■	Ports and it's connections are not imported.	
120 Spatial Containment	■		
130 Grouping			
130-2 Grouping to Systems	■	No grouping supported.	
207 IfcFlowMovingDevice		company statement	DuplexHouse_Ventilation / 2x3

010 Naming		
020 Placement		
020-2 Placement Relative		
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid		Imported as brep object.
030-6-5 Geometry Explicit		
030-6-9 Geometry Mapped		
040 Presentation		
040-1 Geometric Presentation		
100 Element Aggregation		
100-4 Port Assignment		Ports and it's connections are not imported.
110 Connectivity		
110-5 Connectivity by Ports		Ports and it's connections are not imported.
120 Spatial Containment		
130 Grouping		
130-2 Grouping to Systems		No grouping supported.
208 IfcFlowSegment	company statement DuplexHouse_Ventilation / 2x3	
010 Naming		
020 Placement		
020-2 Placement Relative		

030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid		Imported as brep object.
030-6-5 Geometry Explicit		
030-6-9 Geometry Mapped		
040 Presentation		
040-1 Geometric Presentation		
100 Element Aggregation		
100-4 Port Assignment		Ports and it's connections are not imported.
110 Connectivity		
110-5 Connectivity by Ports		Ports and it's connections are not imported.
120 Spatial Containment		
130 Grouping		
130-2 Grouping to Systems		No grouping supported.
210 IfcFlowTerminal		<i>company statement</i> DuplexHouse_Ventilation / 2x3
010 Naming		
020 Placement		
020-2 Placement Relative		

030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid		Imported as brep object.
030-6-5 Geometry Explicit		
030-6-9 Geometry Mapped		
040 Presentation		
040-1 Geometric Presentation		
100 Element Aggregation		
100-4 Port Assignment		Ports and it's connections are not imported.
110 Connectivity		
110-5 Connectivity by Ports		Ports and it's connections are not imported.
120 Spatial Containment		
130 Grouping		
130-2 Grouping to Systems		No grouping supported.
507 IfcSystem		<i>company statement</i> DuplexHouse_Ventilation / 2x3
010 Naming		No grouping supported.
130 Grouping		
130-5 Is Group		No grouping supported.
250 System Assignment		
250-2 Services Spatial Element		No grouping supported.
General		<i>company statement</i> DuplexHouse_Ventilation / 2x3
_G4 Remarks		

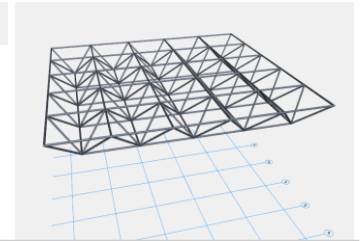
Grid 01 / 2x3



509 IfcGrid	company statement		Grid 01 / 2x3
001 GUIDs	■	Grid not imported.	
002 History	■	Grid not imported.	
010 Naming	■	Grid not imported.	
020 Placement			
020-2 Placement Relative	■	Grid not imported.	
030 Geometry			
030-3 Geometry FootPrint	■	Grid not imported.	
040 Presentation			
040-1 Geometric Presentation	■	Grid not imported.	
050 CAD Layer	■	Grid not imported.	
120 Spatial Containment	■	Grid not imported.	
210 Property Set			
210-3 Property Set User Defined	■	Grid not imported.	
270 Grid Usage			
270-1 Grid Axes	■	Grid not imported.	
General	company statement		Grid 01 / 2x3

_G4 Remarks	Grid not imported.
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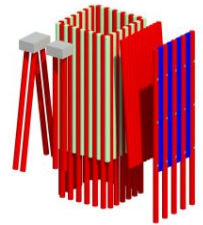
Member_01S / 2x3



401 IfcMember	company statement		Member_01S / 2x3
010 Naming		■	
020 Placement			
020-2 Placement Relative		■	
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid		■	No native support for members, all are imported as brep object.
030-6-2 Geometry Clipping		■	All clipped elements imported as brep object.
110 Connectivity			
110-1 Connectivity Basic		■	No connectivity support in Allplan.
110-3 Connectivity Realization			
110-3-1 Connectivity Realized		■	No connectivity support in Allplan.
120 Spatial Containment		■	
200 Material			
200-1 Single Material		■	The material name in Allplan is restricted to 32 characters. Status changed to restricted.

300 Type	
300-1 Type Geometry	Every element has its own geometry.
General	company statement Member_01S / 2x3
_G4 Remarks	

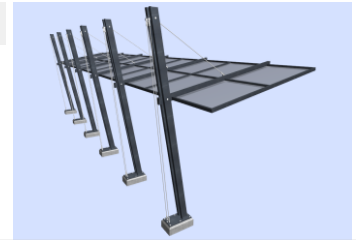
Pile 01 / 2x3



404 IfcPile	company statement		Pile 01 / 2x3
001 GUIDs	■		
002 History	■	Owner history in Allplan not supported.	
010 Naming	■		
020 Placement			
020-1 Placement Relative	■		
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■	Imported as brep objects.	
030-6-2 Geometry Clipping	■	Imported as brep objects.	
030-6-9 Geometry Mapped	■	No mapping, every object imported as standalone brep object.	
040 Presentation			
040-1 Geometric Presentation	■		
040-2 Material Presentation	■	Allplan support only name of material. Material presentation information is assigned to the element only if element does not contain presentation information.	
050 CAD Layer	■		
070 Voiding			
070-3 Voiding Geometry SweptSolid	■	No file to test, but it would be included in geometry.	

100 Element Aggregation		
100-2 Element Decomposition		No file to test, but it would be imported as a group.
120 Spatial Containment		
200 Material		
200-1 Single Material		The material name in Allplan is restricted to 32 characters.
210 Property Set		
210-3 Property Set User Defined		Name of property set not supported, but properties are imported.
300 Type		
300-1 Type Geometry		Every element has its own geometry.
300-3 Type Material		Assigned to the elements.
300-5 Type Property Set		Assigned to the elements.
General		<i>company statement</i> Pile 01 / 2x3
_G4 Remarks		

PlateFastener-01 / 2x3



103 IfcBeam		company statement	PlateFastener-01 / 2x3
001 GUIDs	■		
002 History	■	Owner history in Allplan not supported.	
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■	Beams imported as brep objects. Only horizontal not sloped, not clipped beams with rectangle profile could be imported as beam.	
030-6-9 Geometry Mapped	■	Beams imported as brep objects.	
104 IfcColumn		company statement	PlateFastener-01 / 2x3
001 GUIDs	■		
002 History	■	Owner history in Allplan not supported.	
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■	Sloped columns are imported as brep objects.	
030-6-9 Geometry Mapped	■	Sloped columns are imported as brep objects.	
100 Element Aggregation			
100-2 Element Decomposition	■	Decomposed elements would be imported as group of elements.	

210 Property Set	
210-3 Property Set User Defined	 Name of property set no supported, but properties are imported.
300 Type	
300-1 Type Geometry	 Every element has its own geometry.
300-2 Type Naming	 Type name not imported.
300-3 Type Material	 Assigned to the elements.
300-5 Type Property Set	 Assigned to the elements.
401 IfcMember	<i>company statement</i> PlateFastener-01 / 2x3
001 GUIDs	
002 History	 Owner history in Allplan not supported.
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	 Name of property set no supported, but properties are imported.

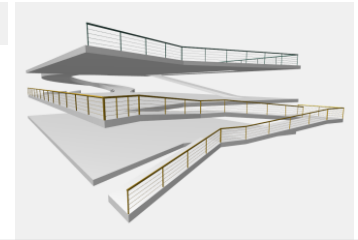
300 Type		
300-2 Type Naming		Type name not imported.
300-3 Type Material		Assigned to the elements.
300-5 Type Property Set		Assigned to the elements.
402 IfcPlate	<i>company statement</i> PlateFastener-01 / 2x3	
001 GUIDs		
002 History		Owner history in Allplan not supported.
010 Naming		
020 Placement		
020-2 Placement Relative		
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid		Only as brep objects.
030-6-2 Geometry Clipping		Only as brep objects.
030-6-5 Geometry Explicit		
040 Presentation		
040-1 Geometric Presentation		
050 CAD Layer		
070 Voiding		
070-3 Voiding Geometry SweptSolid		Included in geometry.
120 Spatial Containment		

200 Material		
200-2 Material Layer Set		Only single material supported, list of materials would be imported in one row, separated with commas.
210 Property Set		
210-1 Property Set IFC Common		
210-3 Property Set User Defined		Name of property set no supported, but properties are imported.
300 Type		
300-1 Type Geometry		Every element has its own geometry.
300-2 Type Naming		Type name not imported.
300-3 Type Material		Assigned to the elements.
300-5 Type Property Set		Assigned to the elements.
403 IfcFooting	company statement PlateFastener-01 / 2x3	
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid		Only as brep objects.
030-6-2 Geometry Clipping		Only as brep objects.
405 IfcFastener	company statement PlateFastener-01 / 2x3	
010 Naming		
020 Placement		
020-2 Placement Relative		
030 Geometry		
030-2 Geometry Axis		Axis not imported with brep objects.

406 IfcMechanicalFastener	company statement		PlateFastener-01 / 2x3
001 GUIDs			
002 History		Owner history in Allplan not supported.	
010 Naming			
020 Placement			
020-2 Placement Relative			
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid		Only as brep objects.	
030-6-5 Geometry Explicit			
030-6-9 Geometry Mapped			
040 Presentation			
040-1 Geometric Presentation			
050 CAD Layer			
120 Spatial Containment			
200 Material			
200-1 Single Material			
210 Property Set			
210-6 Property Set IFC any			
210-9 Property Set User Defined		Name of property set not supported, but properties are imported.	

300 Type	
300-1 Type Geometry	Every element has its own geometry.
300-2 Type Naming	Type name not imported.
300-3 Type Material	Assigned to the elements.
300-5 Type Property Set	Assigned to the elements.
General	<i>company statement</i> PlateFastener-01 / 2x3
_G4 Remarks	

RampRailing-01 / 2x3



107 IfcRamp	company statement		RampRailing-01 / 2x3
001 GUIDs	■		
002 History	■	Owner history in Allplan not supported.	
010 Naming	■		
020 Placement			
020-1 Placement Relative	■		
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit	■		
030-9 Geometry By Components	■	Imported as a group of brep objects.	
040 Presentation			
040-1 Geometric Presentation	■		
050 CAD Layer	■		
100 Element Aggregation			
100-2 Element Decomposition	■	Imported as a group of brep objects.	
120 Spatial Containment	■		
200 Material			
200-1 Single Material	■	Material name is restricted to 32 characters.	

210 Property Set	
210-1 Property Set IFC Common	
210-3 Property Set User Defined	
	Name of property set not supported, but properties are imported.
108 IfcRailing	<i>company statement</i> <i>RampRailing-01 / 2x3</i>
001 GUIDs	
002 History	
	Owner history in Allplan not supported.
010 Naming	
020 Placement	
020-2 Placement Relative	
030 Geometry	
030-6 Geometry Body	
030-6-1 Geometry SweptSolid	
	No file to test, but would be imported as brep.
030-6-5 Geometry Explicit	
030-6-9 Geometry Mapped	
	No file to test, but would be imported as standalone brep.
040 Presentation	
040-1 Geometric Presentation	
050 CAD Layer	
120 Spatial Containment	
200 Material	
200-1 Single Material	
	Material name is restricted to 32 characters.
200-5 Material List	
	Allplan has no material list. Material list is imported as single material, in one row, comma separated.

210 Property Set	
210-1 Property Set IFC Common	
210-3 Property Set User Defined	
Name of property set not supported, but properties are imported.	
General	<i>company statement</i>
	<i>RampRailing-01 / 2x3</i>
_G4 Remarks	

RandomArch-X1 VW / 2x3

103 IfcBeam	company statement		RandomArch-X1 VW / 2x3
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit			
040 Presentation			
040-2 Material Presentation		Allplan support only name of material. Material presentation information is assigned to the element only if element does not contain presentation information.	
200 Material			
200-1 Single Material		Material name is restricted to 32 characters.	
210 Property Set			
210-1 Property Set IFC Common			
104 IfcColumn	company statement		RandomArch-X1 VW / 2x3
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit			
040 Presentation			
040-2 Material Presentation		Allplan support only name of material. Material presentation information is assigned to the element only if element does not contain presentation information.	

200 Material		
200-1 Single Material		Material name is restricted to 32 characters.
210 Property Set		
210-1 Property Set IFC Common		
105 IfcSlab	<i>company statement</i> RandomArch-X1 VW / 2x3	
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid		Created brep 3d object.
040 Presentation		
040-2 Material Presentation		Allplan support only name of material. Material presentation information is assigned to the element only if element does not contain presentation information.
200 Material		
200-2 Material Layer Set		In Allplan only one material layer in slab is available. All materials are written together alphabetically in this material.
200-3 Material Layer Usage		In Allplan only one material layer in slab is available. All materials are written together alphabetically in this material.
110 IfcRoof	<i>company statement</i> RandomArch-X1 VW / 2x3	
100 Element Aggregation		
100-2 Element Decomposition		Roof imported as a group of elements.
210 Property Set		
210-1 Property Set IFC Common		
503 IfcBuilding	<i>company statement</i> RandomArch-X1 VW / 2x3	

210 Property Set		
210-1 Property Set IFC Common	 Building in Allplan has no own properties.	
509 IfcGrid	<i>company statement</i>	<i>RandomArch-X1 VW / 2x3</i>
030 Geometry		
030-3 Geometry FootPrint	 Grid not imported.	
270 Grid Usage		
270-1 Grid Axes	 Grid not imported.	
General	<i>company statement</i>	<i>RandomArch-X1 VW / 2x3</i>
_G4 Remarks		

RandomArch-X2 AC16 / 2x3

101 IfcWallStandardCase	company statement		RandomArch-X2 AC16 / 2x3
001 GUIDs			
002 History		Owner history in Allplan not supported.	
010 Naming			
030 Geometry			
030-2 Geometry Axis		No axis imported, because all objects are created as breps.	
030-6 Geometry Body			
030-6-1 Geometry SweptSolid		All elements created as brep 3d objects.	
210 Property Set			
210-2 Property Set IFC any		Name of property set not supported, but properties are imported.	
105 IfcSlab	company statement		RandomArch-X2 AC16 / 2x3
001 GUIDs			
002 History		Owner history in Allplan not supported.	
010 Naming			
050 CAD Layer			

200 Material	
200-1 Single Material	Material name is restricted to 32 characters.
General	<i>company statement</i> RandomArch-X2 AC16 / 2x3
_G4 Remarks	

RandomArch-X3 RAC / 2x3

101 IfcWallStandardCase		company statement	RandomArch-X3 RAC / 2x3
020 Placement			
020-2 Placement Relative	■		
102 IfcWall		company statement	RandomArch-X3 RAC / 2x3
020 Placement			
020-2 Placement Relative	■		
105 IfcSlab		company statement	RandomArch-X3 RAC / 2x3
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
110 IfcRoof		company statement	RandomArch-X3 RAC / 2x3
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
111 IfcBuildingElementProxy		company statement	RandomArch-X3 RAC / 2x3
010 Naming	■		
503 IfcBuilding		company statement	RandomArch-X3 RAC / 2x3
010 Naming	■		
General		company statement	RandomArch-X3 RAC / 2x3
_G4 Remarks	■		

RandomArch-X4 Allplan2013 / 2x3

105 IfcSlab	company statement		RandomArch-X4 Allplan2013 / 2x3
010 Naming			
020 Placement			
020-2 Placement Relative			
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid		Slab-03 with complicated inner profile imported as brep object.	
050 CAD Layer			
070 Voiding			
070-3 Voiding Geometry SweptSolid			
200 Material			
200-2 Material Layer Set		In Allplan only one material layer in slab is available. All materials are written together alphabetically in this material.	
403 IfcFooting	company statement		RandomArch-X4 Allplan2013 / 2x3
010 Naming			
020 Placement			
020-1 Placement Relative			

030 Geometry	
030-2 Geometry Axis	 Allplan doesn't support axis for brep objects.
030-6 Geometry Body	
030-6-1 Geometry SweptSolid	 Imported as brep object.
030-6-5 Geometry Explicit	
050 CAD Layer	
200 Material	
200-1 Single Material	 Material name is restricted to 32 characters.
General	<i>company statement</i> RandomArch-X4 Allplan2013 / 2x3
_G4 Remarks	

RandomArch-X5 AC16 / 2x3

101 IfcWallStandardCase		company statement	RandomArch-X5 AC16 / 2x3
010 Naming	■		
050 CAD Layer	■		
302 IfcDoor		company statement	RandomArch-X5 AC16 / 2x3
010 Naming	■		
030 Geometry			
030-3 Geometry FootPrint	■		
030-6 Geometry Body			
030-6-9 Geometry Mapped	■		
050 CAD Layer	■		
300 Type			
300-2 Type Naming	■	Type name not imported.	
300-6 Type Predefined Properties			
300-6-1 Type Predefined Properties Door	■	Doors imported as macros, parameters are ignored.	
General		company statement	RandomArch-X5 AC16 / 2x3
_G4 Remarks	■		

RandomMEP-X1 RME / 2x3

210 IfcFlowTerminal	company statement		RandomMEP-X1 RME / 2x3
001 GUIDs			
010 Naming			
020 Placement			
020-2 Placement Relative			
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit			
408 IfcElementAssembly	company statement		RandomMEP-X1 RME / 2x3
001 GUIDs			
010 Naming			
020 Placement			
020-2 Placement Relative			
100 Element Aggregation			
100-1 Element Composition		Just as a group of elements.	
100-2 Element Decomposition		Just as a group of elements.	
General	company statement		RandomMEP-X1 RME / 2x3
_G4 Remarks			

RandomMEP-X4 RME / 2x3

508 IfcZone	company statement		RandomMEP-X4 RME / 2x3
001 GUIDs		Allplan does not support zone.	
002 History		Allplan does not support zone.	
010 Naming		Allplan does not support zone.	
130 Grouping			
130-3 Grouping to Zones		Allplan does not support zone.	
210 Property Set			
210-6 Property Set IFC any		Allplan does not support zone.	
General	company statement		RandomMEP-X4 RME / 2x3
_G4 Remarks		Groups like IfcZone are not imported and not even listed in the protocol file. Only elements contained in the group.	

RandomMEP-X5 BENCH / 2x3

205 IfcFlowController	company statement		RandomMEP-X5 BENCH / 2x3
100 Element Aggregation			
100-4 Port Assignment		Ports and it's connections are not imported.	
110 Connectivity			
110-5 Connectivity by Ports		Ports and it's connections are not imported.	
206 IfcFlowFitting	company statement		RandomMEP-X5 BENCH / 2x3
001 GUIDs			
002 History		Owner history in Allplan not supported.	
010 Naming			
020 Placement			
020-2 Placement Relative			
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit			
030-6-9 Geometry Mapped			
040 Presentation			
040-1 Geometric Presentation			
050 CAD Layer			

100 Element Aggregation 100-4 Port Assignment	 Ports and it's connections are not imported.
110 Connectivity 110-5 Connectivity by Ports	 Ports and it's connections are not imported.
120 Spatial Containment	
200 Material 200-1 Single Material	 The length of the name is limited to 32 characters.
210 Property Set 210-9 Property Set User Defined	 Name of property set not supported, but properties are imported.
208 IfcFlowSegment	<i>company statement</i> <i>RandomMEP-X5 BENCH / 2x3</i>
010 Naming	
030 Geometry 030-6 Geometry Body 030-6-1 Geometry SweptSolid	 Swept disk solids are imported as brep objects.
030-6-5 Geometry Explicit	
030-6-9 Geometry Mapped	
100 Element Aggregation 100-4 Port Assignment	 Ports and it's connections are not imported.
110 Connectivity 110-5 Connectivity by Ports	 Ports and it's connections are not imported.
210 IfcFlowTerminal	<i>company statement</i> <i>RandomMEP-X5 BENCH / 2x3</i>
010 Naming	

020 Placement	
020-2 Placement Relative	■
030 Geometry	
030-6 Geometry Body	
030-6-5 Geometry Explicit	■
030-6-9 Geometry Mapped	■
040 Presentation	
040-1 Geometric Presentation	■
050 CAD Layer	■
100 Element Aggregation	
100-4 Port Assignment	■ Ports and it's connections are not imported.
110 Connectivity	
110-5 Connectivity by Ports	■ Ports and it's connections are not imported.
200 Material	
200-1 Single Material	■ The length of the name is limited to 32 characters.
210 Property Set	
210-9 Property Set User Defined	■ Name of property set not supported, but properties are imported.
General	<i>company statement</i> <i>RandomMEP-X5 BENCH / 2x3</i>
_G4 Remarks	■ IfcDistributionPort is not considered as a building element and is not imported and not even reported in protocol file.

RandomStruc-X1 RST / 2x3

102 IfcWall	company statement	RandomStruc-X1 RST / 2x3
070 Voiding 070-3 Voiding Geometry SweptSolid	 Not present, but would be part of geometry.	
080 Filling 080-1 Has Filling 080-1-1 Has Filling Door 080-1-2 Has Filling Window	 Only geometry imported, no parameters.  Only geometry imported, no parameters.	
100 Element Aggregation 100-2 Element Decomposition	 Not real wall, but a group of elements.	
210 Property Set 210-1 Property Set IFC Common		
105 IfcSlab	company statement	RandomStruc-X1 RST / 2x3
100 Element Aggregation 100-2 Element Decomposition	 Not real slab, but a group of elements.	
210 Property Set 210-1 Property Set IFC Common		

110 IfcRoof	company statement		RandomStruc-X1 RST / 2x3
100 Element Aggregation			
100-1 Element Composition			
100-2 Element Decomposition		Not real roof, but a group of elements.	
210 Property Set			
210-1 Property Set IFC Common			
General	company statement		RandomStruc-X1 RST / 2x3
_G4 Remarks			

RandomStruc-X2 Scia / 2x3

411 IfcTendon	company statement		RandomStruc-X2 Scia / 2x3
001 GUIDs		Allplan does not have a tendon element.	
002 History		Allplan does not have a tendon element.	
010 Naming		Allplan does not have a tendon element.	
020 Placement			
020-2 Placement Relative		Allplan does not have a tendon element.	
030 Geometry			
030-6 Geometry Body			
030-6-4 Geometry AdvancedSweptSolid		Allplan does not have a tendon element.	
040 Presentation			
040-1 Geometric Presentation		Allplan does not have a tendon element.	
050 CAD Layer		Allplan does not have a tendon element.	
120 Spatial Containment		Allplan does not have a tendon element.	
200 Material			
200-1 Single Material		Allplan does not have a tendon element.	
General	company statement		RandomStruc-X2 Scia / 2x3
_G4 Remarks		Allplan does not have a tendon element.	

RandomStruc-X3 SDS2 / 2x3

108 IfcRailing	company statement		RandomStruc-X3 SDS2 / 2x3
010 Naming			
020 Placement			
020-2 Placement Relative			
100 Element Aggregation			
100-2 Element Decomposition		No native Allplan element but group.	
210 Property Set			
210-3 Property Set User Defined		Name of property set not supported, but properties are imported.	
401 IfcMember	company statement		RandomStruc-X3 SDS2 / 2x3
010 Naming			
020 Placement			
020-2 Placement Relative			
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid		not defined	
030-6-5 Geometry Explicit			
030-6-9 Geometry Mapped		All elements as standalone objects.	

040 Presentation	
040-1 Geometric Presentation	
100 Element Aggregation	
100-1 Element Composition	 Not part of native Allplan element but group.
200 Material	
200-1 Single Material	 Material name is restricted to 32 characters.
210 Property Set	
210-3 Property Set User Defined	 Name of property set not supported, but properties are imported.
300 Type	
300-1 Type Geometry	 Every element has its own geometry.
300-2 Type Naming	 Type name not imported.
300-5 Type Property Set	 Assigned to the elements.
General	<i>company statement</i> <i>RandomStruc-X3 SDS2 / 2x3</i>
_G4 Remarks	

RandomStruc-X3 TS / 2x3

103 IfcBeam	company statement		RandomStruc-X3 TS / 2x3
001 GUIDs			
002 History		Owner history in Allplan not supported.	
010 Naming			
020 Placement			
020-2 Placement Relative			
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid		Imported as brep objects.	
030-6-5 Geometry Explicit			
040 Presentation			
040-1 Geometric Presentation			
120 Spatial Containment			
General	company statement		RandomStruc-X3 TS / 2x3
_G4 Remarks			

RandomStruc-X5 Scia / 2x3

403 IfcFooting	company statement		RandomStruc-X5 Scia / 2x3
001 GUIDs			
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit			
030-6-9 Geometry Mapped			
200 Material			
200-1 Single Material		Material name is restricted to 32 characters.	
409 IfcReinforcingBar	company statement		RandomStruc-X5 Scia / 2x3
030 Geometry			
030-6 Geometry Body			
030-6-4 Geometry AdvancedSweptSolid			
030-6-9 Geometry Mapped			
050 CAD Layer			
200 Material			
200-1 Single Material			
General	company statement		RandomStruc-X5 Scia / 2x3
_G4 Remarks			

ReplacementTest_forRoof-01 Scia / 2x3

102 IfcWall	company statement		ReplacementTest_forRoof-01 Scia / 2x3
030 Geometry			
030-6 Geometry Body			
030-6-2 Geometry Clipping			
030-6-5 Geometry Explicit			
105 IfcSlab	company statement		ReplacementTest_forRoof-01 Scia / 2x3
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid		Imported as brep objects.	
030-6-2 Geometry Clipping		No clipping in file, but would be imported as brep.	
030-6-9 Geometry Mapped			
040 Presentation			
040-1 Geometric Presentation			
040-2 Material Presentation		Allplan support only name of material. Material presentation information is assigned to the element only if element does not contain presentation information.	
070 Voiding			
070-3 Voiding Geometry SweptSolid		Openings included in geometry.	

100 Element Aggregation	
100-2 Element Decomposition	No composition in file, but would be imported as a group of elements.
120 Spatial Containment	
200 Material	
200-1 Single Material	Material name is restricted to 32 characters.
General	company statement ReplacementTest_forRoof-01 Scia / 2x3
_G4 Remarks	

ReplacementTest_forStairSlab-01 SDS2 / 2x3

103 IfcBeam	company statement		ReplacementTest_forStairSlab-01 SDS2 / 2x3
010 Naming			
020 Placement			
020-2 Placement Relative			
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid		Imported as brep objects.	
030-6-9 Geometry Mapped			
200 Material			
200-1 Single Material		Material name is restricted to 32 characters.	
210 Property Set			
210-1 Property Set IFC Common			
210-3 Property Set User Defined		Name of property set not supported, but properties are imported.	
300 Type			
300-1 Type Geometry		Every element has its own geometry.	
300-2 Type Naming		Type name not imported. No "TypeObject" concept.	
300-5 Type Property Set		Assigned to the elements.	
105 IfcSlab	company statement		ReplacementTest_forStairSlab-01 SDS2 / 2x3
002 History		Owner history in Allplan not supported.	

010 Naming		
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid		
030-6-9 Geometry Mapped		
200 Material		
200-1 Single Material		Material name is restricted to 32 characters.
210 Property Set		
210-3 Property Set User Defined		Name of property set not supported, but properties are imported.
300 Type		
300-1 Type Geometry		Every element has its own geometry.
300-2 Type Naming		Type name not imported.
106 IfcStair	company statement ReplacementTest_forStairSlab-01 SDS2 / 2x3	
010 Naming		
020 Placement		
020-1 Placement Relative		
100 Element Aggregation		
100-2 Element Decomposition		Not real composition but group of elements.
210 Property Set		
210-1 Property Set IFC Common		
210-3 Property Set User Defined		Name of property set not supported, but properties are imported.
401 IfcMember	company statement ReplacementTest_forStairSlab-01 SDS2 / 2x3	

010 Naming		
020 Placement		
020-2 Placement Relative		
030 Geometry		
030-6 Geometry Body		
030-6-5 Geometry Explicit		
030-6-9 Geometry Mapped		Mapped elements in a group is not supported in Allplan.
100 Element Aggregation		
100-1 Element Composition		
200 Material		
200-1 Single Material		Material name is restricted to 32 characters.
210 Property Set		
210-3 Property Set User Defined		Name of property set not supported, but properties are imported.
300 Type		
300-1 Type Geometry		Every element has its own geometry.
300-2 Type Naming		Type name not imported.
402 IfcPlate		<i>company statement</i> <i>ReplacementTest_forStairSlab-01 SDS2 / 2x3</i>
010 Naming		
020 Placement		
020-2 Placement Relative		

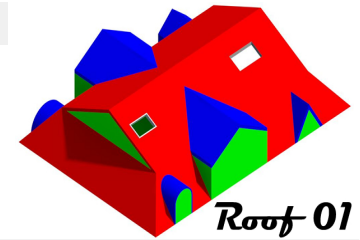
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid		Imported as brep objects.
030-6-9 Geometry Mapped		Mapped elements in a group is not supported in Allplan.
100 Element Aggregation		
100-1 Element Composition		
200 Material		
200-1 Single Material		Material name is restricted to 32 characters.
210 Property Set		
210-3 Property Set User Defined		Name of property set not supported, but properties are imported.
300 Type		
300-1 Type Geometry		Every element has its own geometry.
300-2 Type Naming		Type name not imported.
General	company statement	
_G4 Remarks		

ReplacementTest_forWall-01 TS / 2x3

102 IfcWall	company statement		ReplacementTest_forWall-01 TS / 2x3
010 Naming			
020 Placement			
020-2 Placement Relative			
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit			
040 Presentation			
040-1 Geometric Presentation			
200 Material			
200-1 Single Material		Material name is restricted to 32 characters.	
103 IfcBeam	company statement		ReplacementTest_forWall-01 TS / 2x3
010 Naming			
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid		No SweptSolid geometry, but such beam would be imported as brep object.	
040 Presentation			
040-1 Geometric Presentation			

200 Material	
200-1 Single Material	Material name is restricted to 32 characters.
General	<i>company statement</i> ReplacementTest_forWall-01 TS / 2x3
_G4 Remarks	

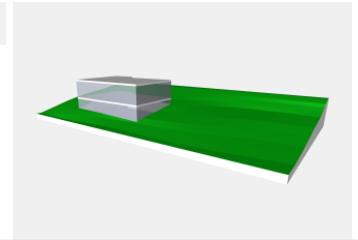
Roof 01 / 2x3



101 IfcWallStandardCase	company statement	Roof 01 / 2x3
030 Geometry 030-6 Geometry Body 030-6-1 Geometry SweptSolid 030-6-2 Geometry Clipping	CSG and wall extruded horizontally created as brep object.	
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	No testcase to test, but most likely it would be brep objects. No testcase to test, but most likely it would be brep objects. No testcase to test, but mapping wouldn't be preserved.	
070 Voiding 070-3 Voiding Geometry SweptSolid	Included in the element geometry or created as special openings which are not editable.	

080 Filling 080-1 Has Filling 080-1-2 Has Filling Window	 Only shape of window imported as brep. No parameters and only a relation between slab and window (not bidirectional).
200 Material 200-2 Material Layer Set	 Only single material.
110 IfcRoof	<i>company statement</i> Roof 01 / 2x3
030 Geometry 030-1 Geometry Box	 Geometry box not supported in Allplan.
040 Presentation 040-1 Geometric Presentation 040-2 Material Presentation	  Allplan support only name of material. Material presentation information is assigned to the element only if element does not contain presentation information.
100 Element Aggregation 100-2 Element Decomposition	 No element composition after import.
120 Spatial Containment	
200 Material 200-1 Single Material	
General	<i>company statement</i> Roof 01 / 2x3
_G4 Remarks	

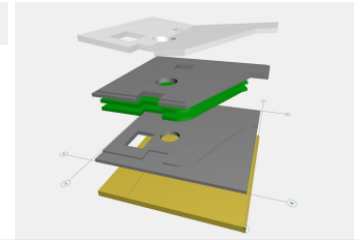
Site 02 / 2x3



502 IfcSite	company statement		Site 02 / 2x3
010 Naming	■		
020 Placement			
020-1 Placement Absolute	■	Site in Allplan has no position, but it's placement is considered in element position calculation.	
030 Geometry			
030-3 Geometry FootPrint	■	No footprint representation supported in Allplan.	
030-6 Geometry Body			
030-6-5 Geometry Explicit	■	Imported as brep object.	
150 Spatial Aggregation			
150-1 Spatial Composition	■		
150-2 Spatial Decomposition	■		
210 Property Set			
210-9 Property Set User Defined	■	Attributes for site in Allplan not supported, but created brep object has all the properties.	
503 IfcBuilding	company statement		Site 02 / 2x3
010 Naming	■		

020 Placement	
020-2 Placement Relative	Building in Allplan has no position, but it's placement is considered in element position calculation.
150 Spatial Aggregation	
150-1 Spatial Composition	
150-2 Spatial Decomposition	
210 Property Set	
210-1 Property Set IFC Common	Attributes for building in Allplan not supported.
General	<i>company statement</i>
_G4 Remarks	

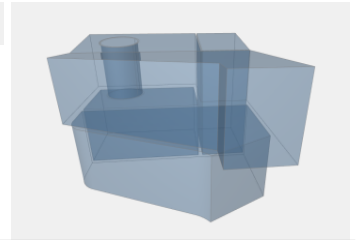
Slab 02S / 2x3



105 IfcSlab	company statement		Slab 02S / 2x3
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-1 Geometry Box	■	Geometry box not supported in Allplan.	
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
030-6-2 Geometry Clipping	■	No testcase to test, but most likely it would be brep objects.	
030-6-5 Geometry Explicit	■		
030-6-9 Geometry Mapped	■	No testcase to test, but mapping wouldn't be preserved.	
070 Voiding			
070-1 Voiding Geometry Explicit	■	No testcase to test, but geometry would be included in geometry.	
070-2 Voiding Geometry Mapped	■	No testcase to test, but mapping wouldn't be preserved.	
070-3 Voiding Geometry SweptSolid	■		
120 Spatial Containment	■		
130 Grouping			
130-1 Grouping General	■	Grouping is not imported.	

200 Material		
200-1 Single Material	■	
200-2 Material Layer Set	■	In Allplan only one material layer by slab is defined. All materials from other layers are written together alphabetically.
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	■	Every element has its own geometry.
300-2 Type Naming	■	Type name not imported.
300-3 Type Material	■	Assigned to the elements.
300-5 Type Property Set	■	Assigned to the elements.
General		<i>company statement</i> Slab 02S / 2x3
_G4 Remarks	■	

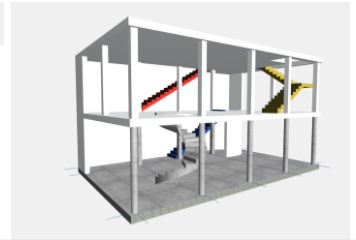
Space 01A / 2x3



505 IfcSpace	company statement		Space 01A / 2x3
001 GUIDs	■		
002 History	■	Owner history in Allplan not supported.	
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	■	No colors for spaces. Coverings must be defined to visualize in animation view.	
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	
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StairSlab-01 / 2x3

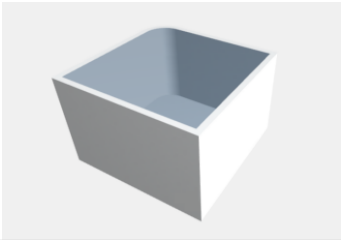


105 IfcSlab		company statement	StairSlab-01 / 2x3
001 GUIDs	■		
002 History	■	Owner history in Allplan not supported.	
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
040 Presentation			
040-1 Geometric Presentation	■		
040-2 Material Presentation	■	Allplan support only name of material. Material presentation information is assigned to the element only if element does not contain presentation information.	
070 Voiding			
070-3 Voiding Geometry SweptSolid	■		
106 IfcStair		company statement	StairSlab-01 / 2x3
001 GUIDs	■		
002 History	■	Owner history in Allplan not supported.	
010 Naming	■		
020 Placement			
020-1 Placement Relative	■		

030 Geometry		
030-6 Geometry Body		
030-6-5 Geometry Explicit	■	
030-9 Geometry By Components	■	Imported as group of brep objects.
040 Presentation		
040-1 Geometric Presentation	■	
050 CAD Layer	■	
100 Element Aggregation		
100-2 Element Decomposition	■	Imported as group of brep objects.
120 Spatial Containment	■	
200 Material		
200-1 Single Material	■	Material name is restricted to 32 characters.
210 Property Set		
210-1 Property Set IFC Common	■	
General		<i>company statement</i>
_G4 Remarks	■	

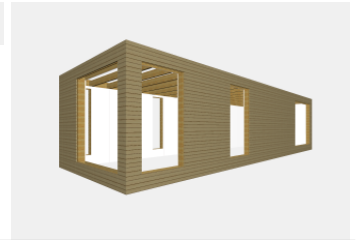
StairSlab-01 / 2x3

UnitTest-01A / 2x3



501 IfcProject	company statement		UnitTest-01A / 2x3
005 Project Units			
005-1 Project Metric Units		Units not set, but calculated correctly.	
005-2 Project Imperial Units		Units not set, but calculated correctly.	
General	company statement		UnitTest-01A / 2x3
_G4 Remarks			

WallSlab 03 / 2x3

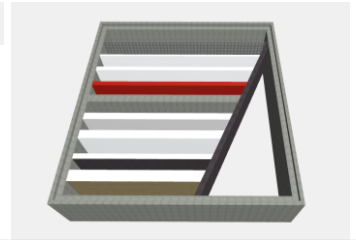


102 IfcWall	company statement		WallSlab 03 / 2x3
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-9 Geometry By Components	■	Not a real composite element but a group.	
070 Voiding			
070-3 Voiding Geometry SweptSolid	■	Imported as brep opening, included in geometry.	
100 Element Aggregation			
100-2 Element Decomposition	■	Not a real composite element but a group.	
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	■	Not a real composite element but a group.	

100 Element Aggregation		
100-2 Element Decomposition		Not a real composite element but a group.
501 IfcProject	<i>company statement</i>	
001 GUIDs		It is possible to import only to existing project. No project attributes stored.
002 History		Owner history in Allplan not supported.
005 Project Units		
005-1 Project Metric Units		The import is correct, but the units were not set.
008 Representation Context		
008-1 Representation Main Context		Allplan does not support context and sub context functionality. All is imported in one global context.
008-2 Representation Sub Context		
008-2-2 Representation Sub Context 3D		Allplan does not support context and sub context functionality. All is imported in one global context.
010 Naming		It is possible to import only to existing project. No project attributes stored.
150 Spatial Aggregation		
150-2 Spatial Decomposition		
503 IfcBuilding	<i>company statement</i>	
001 GUIDs		
002 History		Owner history in Allplan not supported.
010 Naming		
020 Placement		
020-1 Placement Absolute		Building in Allplan has no position, but it's placement is considered in element position calculation.

150 Spatial Aggregation		
150-1 Spatial Composition	■	
150-2 Spatial Decomposition	■	
504 IfcBuildingStorey	company statement	
		WallSlab 03 / 2x3
001 GUIDs	■	
002 History	■	Owner history in Allplan not supported.
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	Only elevation supported.
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	■	

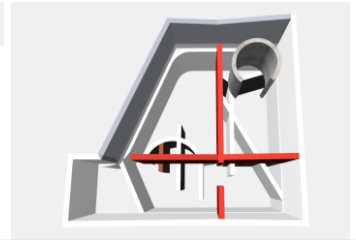
WallStandardCase 01A / 2x3



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	■ Allplan support only name of material. Material presentation information is assigned to the element only if element does not contain presentation information.	
050 CAD Layer	■	
110 Connectivity		
110-2 Connectivity Path	■ No connection information stored in Allplan.	
120 Spatial Containment	■	

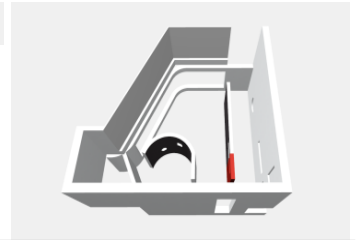
200 Material		
200-4 Material Layer Usage	 1. Restricted: 6 layer wall is not supported in Allplan, the 6.layer is ignored. 2. Restricted: Walls with element parts has material assigned only to the created macro (ACA) or not, when no material in parent object (VW).	
210 Property Set		
210-3 Property Set User Defined		
300 Type		
300-3 Type Material	 Assigned to the elements.	
300-5 Type Property Set	 Assigned to the elements.	
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		■ No connection information stored in Allplan.	
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	■ When wall is imported as brep, the axis is lost. When as wall, axis remain. ■ If the wall cannot be created as native Allplan wall (in this case mostly because of oversized openings), 3d brep object is created.	
070 Voiding 070-1 Voiding Geometry SweptSolid 070-2 Voiding Geometry Explicit 070-3 Voiding Geometry Mapped	■ In Allplan native walls native Allplan openings are created. Otherwise they are special 3d openings which are not editable. ■ No testcase to test, but mapping wouldn't be preserved.	
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	 Owner history in Allplan not supported.	
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	 Profile is not imported. If parametric window is imported, profile is created internally.   Imported as Breps.	
040 Presentation 040-1 Geometric Presentation		
050 CAD Layer		
080 Filling 080-2 Is Filling	 If not placed in Allplan wall or cannot be imported as Allplan window just brep object is created. No parameters.	
120 Spatial Containment		

200 Material		
200-1 Single Material		Material name is restricted to 32 characters.
200-5 Material List		Material list not used in Allplan, materials listed in one row as single material.
210 Property Set		
210-1 Property Set IFC Common		
210-2 Property Set IFC any		
210-3 Property Set User Defined		Name of property set not supported, but properties are imported.
300 Type		
300-1 Type Geometry		Every element has its own geometry.
300-2 Type Naming		Type name not imported.
300-3 Type Material		Assigned to the elements.
300-5 Type Property Set		Assigned to the elements.
300-6 Type Predefined Properties		
300-6-1 Type Predefined Properties Window		Parameters preserved only when it is imported as Allplan window in Allplan wall. Otherwise all window parameters are lost.
General		<i>company statement</i>
_G4 Remarks		