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Introduction

Release: AutoCAD Architecture 2016

AutoCAD® Architecture software is the version of AutoCAD specifically for architectural design. Architectural drafting tools enable you to design and document more efficiently in the familiar AutoCAD environment.

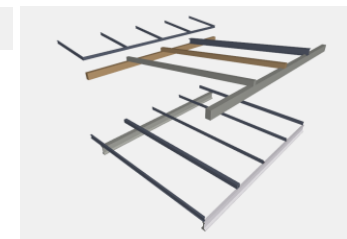
Testlist

Name test	concepts total	manually checked		
				
BeamColumn 04 / 2x3	47	32		15
Beam_01 / 2x3	10	8	1	1
Beam_02 / 2x3	12	7	1	4
Beam_03 / 2x3	6	4		2
CharsetTest-01A / 2x3	2	2		
Column 01 / 2x3	11	8	2	1
Column_02 / 2x3	6	3		3
CoveringFurnishing-01 / 2x3	57	36	3	18
CurtainWall-01 / 2x3	29	19	4	6
Door 01 / 2x3	22	18		4
DoorWindow-02 / 2x3	11	9	1	1
Member 01A / 2x3	10	8		2
Pile 01 / 2x3	19	9	2	8
RampRailing-01 / 2x3	28	23	2	3
RandomArch-X1 / 2x3	12	11	1	
RandomArch-X2 / 2x3	13	12	1	
RandomArch-X3 / 2x3	13	12		1
RandomArch-X4 / 2x3	22	14	5	3
RandomArch-X5 / 2x3	15	11	1	3
ReplacementTest_forGrid-01 / 2x3	19	9	1	9
Roof 01 / 2x3	15	4	5	6
Roof 02 / 2x3	12	4	8	
Site 01 / 2x3	14	9	2	3
Site 02 / 2x3	13	12		1
Slab 01A / 2x3	9	7	1	1
Slab 02A / 2x3	24	14		10

Name test	concepts total	manually checked		
				
Space 01A / 2x3	12	7	4	1
StairSlab-01 / 2x3	19	16	1	2
UnitTest-01A / 2x3	3	3		
Wall 01 / 2x3	20	14	2	4
Wall 02 / 2x3	14	7	4	3
WallSlab 03 / 2x3	32	27		5
WallStandardCase 01A / 2x3	15	12	3	
WallStandardCase 02A / 2x3	11	9	2	
WallStandardCase 03A / 2x3	9	8		1
WallStandardCase 04A / 2x3	8	6		2
Window 01 / 2x3	22	13	4	5

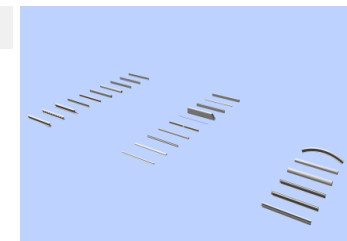
Concepts

Beam_01 / 2x3



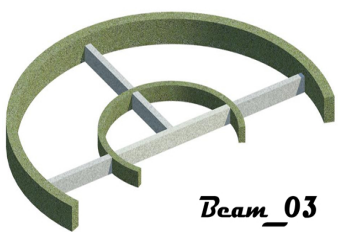
103 IfcBeam	company statement		Beam_01 / 2x3
010 Naming		■	
020 Placement			
020-2 Placement Relative		■	
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid		■	
030-6-2 Geometry Clipping		■	
040 Presentation			
040-1 Geometric Presentation		■	
040-2 Material Presentation		■	
120 Spatial Containment		■	
200 Material			
200-1 Single Material		■	
210 Property Set			
210-1 Property Set IFC Common		■	
General	company statement		Beam_01 / 2x3
_G4 Remarks		■	

Beam_02 / 2x3



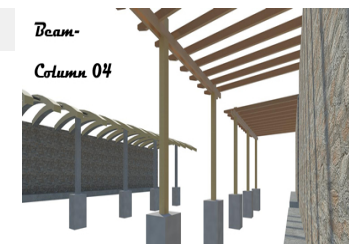
103 IfcBeam	company statement		Beam_02 / 2x3
010 Naming		■	
030 Geometry			
030-2 Geometry Axis		■	
030-6 Geometry Body			
030-6-1 Geometry SweptSolid		■	
030-6-2 Geometry Clipping		■	
030-6-5 Geometry Explicit		■	
050 CAD Layer		■	
070 Voiding			
070-1 Voiding Geometry Explicit		■	
070-2 Voiding Geometry Mapped		■	
070-3 Voiding Geometry SweptSolid		■	
120 Spatial Containment		■	
200 Material			
200-1 Single Material		■	
General	company statement		Beam_02 / 2x3
_G4 Remarks		■	

Beam_03 / 2x3



103 IfcBeam	company statement		Beam_03 / 2x3
030 Geometry			
030-1 Geometry Box		■	
030-2 Geometry Axis		■	
030-6 Geometry Body			
030-6-1 Geometry SweptSolid		■	
030-6-2 Geometry Clipping		■	
300 Type			
300-5 Type Property Set		■	
General	company statement		Beam_03 / 2x3
_G4 Remarks		■	

BeamColumn 04 / 2x3



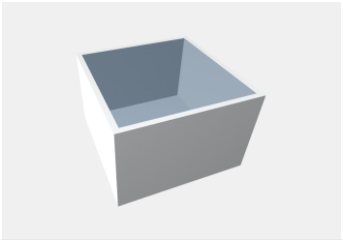
103 IfcBeam	company statement		BeamColumn 04 / 2x3
001 GUIDs		■	
002 History		■	
010 Naming		■	
020 Placement			
020-2 Placement Relative		■	
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid		■	
030-6-9 Geometry Mapped		■	
070 Voiding			
070-1 Voiding Geometry Explicit		■	
070-2 Voiding Geometry Mapped		■	
070-3 Voiding Geometry SweptSolid		■	
130 Grouping			
130-1 Grouping General		■	
200 Material			
200-1 Single Material		■	

210 Property Set	
210-1 Property Set IFC Common	■
210-3 Property Set User Defined	■
300 Type	
300-1 Type Geometry	■
300-2 Type Naming	■
300-3 Type Material	■
300-5 Type Property Set	■
104 IfcColumn	company statement
	BeamColumn 04 / 2x3
001 GUIDs	■
002 History	■
010 Naming	■
020 Placement	
020-2 Placement Relative	■
030 Geometry	
030-6 Geometry Body	
030-6-1 Geometry SweptSolid	■
030-6-9 Geometry Mapped	■
070 Voiding	
070-1 Voiding Geometry Explicit	■
070-2 Voiding Geometry Mapped	■
070-3 Voiding Geometry SweptSolid	■
130 Grouping	
130-1 Grouping General	■

200 Material	
200-1 Single Material	■
210 Property Set	
210-2 Property Set IFC any	■
300 Type	
300-1 Type Geometry	■
300-2 Type Naming	■
300-3 Type Material	■
300-5 Type Property Set	■
403 IfcFooting	<i>company statement</i>
	<i>BeamColumn 04 / 2x3</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	■
130 Grouping	
130-1 Grouping General	■
200 Material	
200-1 Single Material	■
210 Property Set	
210-2 Property Set IFC any	■

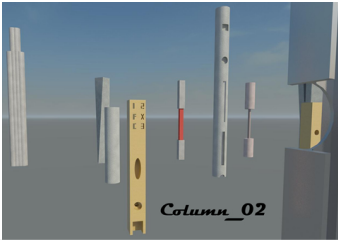
300 Type		
300-1 Type Geometry	■	
300-2 Type Naming	■	
300-3 Type Material	■	
300-5 Type Property Set	■	
General	company statement	
_G4 Remarks	■	

CharsetTest-01A / 2x3



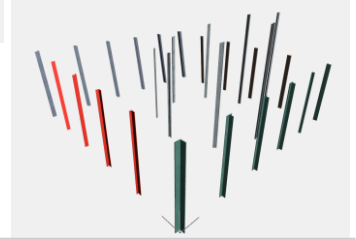
General	company statement		CharsetTest-01A / 2x3
_G1 Character sets		■	
_G4 Remarks		■	

Column_02 / 2x3



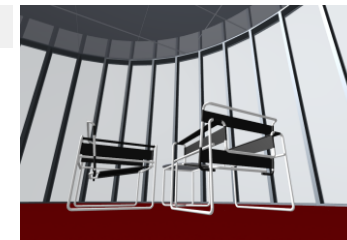
lfcColumn	company statement		Column_02 / 2x3
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid		■	
030-6-5 Geometry Explicit		■	
070 Voiding			
070-1 Voiding Geometry Explicit		■	
070-2 Voiding Geometry Mapped		■	
070-3 Voiding Geometry SweptSolid		■	
General	company statement		Column_02 / 2x3
_G4 Remarks		■	

Column 01 / 2x3



IfcColumn	company statement		Column 01 / 2x3
010 Naming		■	
020 Placement			
020-2 Placement Relative		■	
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid		■	
030-6-2 Geometry Clipping		■	
040 Presentation			
040-1 Geometric Presentation		■	
040-2 Material Presentation		■	
050 CAD Layer		■	
120 Spatial Containment		■	
200 Material			
200-1 Single Material		■	
210 Property Set			
210-1 Property Set IFC Common		■	
General	company statement		Column 01 / 2x3
_G4 Remarks		■	

CoveringFurnishing-01 / 2x3



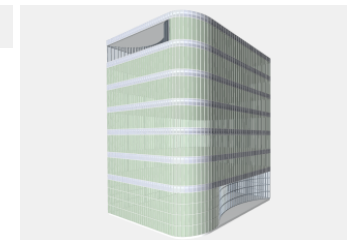
210 IfcFlowTerminal	company statement		CoveringFurnishing-01 / 2x3
001 GUIDs		■	
010 Naming		■	
020 Placement			
020-2 Placement Relative		■	
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit		■	
030-6-9 Geometry Mapped		■	
040 Presentation			
040-1 Geometric Presentation		■	
050 CAD Layer		■	
120 Spatial Containment		■	
210 Property Set			
210-1 Property Set IFC Common		■	
210-6 Property Set IFC any		■	
210-9 Property Set User Defined		■	

300 Type	
300-1 Type Geometry	■
300-2 Type Naming	■
300-3 Type Material	■
300-5 Type Property Set	■
303 IfcCovering	company statement
010 Naming	■
020 Placement	
020-2 Placement Relative	■
030 Geometry	
030-6 Geometry Body	
030-6-1 Geometry SweptSolid	■
030-6-9 Geometry Mapped	■
040 Presentation	
040-1 Geometric Presentation	■
050 CAD Layer	■
070 Voiding	
120 Spatial Containment	■
200 Material	
200-1 Single Material	■
200-3 Material Layer Set	■
210 Property Set	
210-1 Property Set IFC Common	■

300 Type		
300-1 Type Geometry	■	
300-2 Type Naming	■	
300-3 Type Material	■	
300-5 Type Property Set	■	
304 IfcFurnishingElement	company statement	CoveringFurnishing-01 / 2x3
001 GUIDs	■	
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-6 Geometry Body		
030-6-5 Geometry Explicit	■	
030-6-9 Geometry Mapped	■	
040 Presentation		
040-1 Geometric Presentation	■	
050 CAD Layer	■	
120 Spatial Containment	■	
200 Material		
200-1 Single Material	■	
200-5 Material List	■	
210 Property Set		
210-6 Property Set IFC any	■	
210-9 Property Set User Defined	■	

300 Type		
300-1 Type Geometry	■	
300-2 Type Naming	■	
300-3 Type Material	■	
300-5 Type Property Set	■	
505 IfcSpace	company statement	CoveringFurnishing-01 / 2x3
030 Geometry		
030-3 Geometry FootPrint	■	
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
120 Spatial Containment	■	
130 Grouping		
130-3 Grouping to Zones	■	
230 Classification	■	
508 IfcZone	company statement	CoveringFurnishing-01 / 2x3
001 GUIDs	■	
002 History	■	
010 Naming	■	
130 Grouping		
130-5 Is Group	■	
210 Property Set		
210-1 Property Set IFC Common	■	
210-9 Property Set User Defined	■	
General	company statement	CoveringFurnishing-01 / 2x3
_G4 Remarks	■	

CurtainWall-01 / 2x3

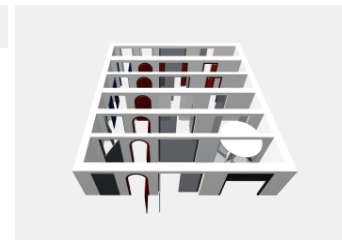


109 IfcCurtainWall	company statement		CurtainWall-01 / 2x3
001 GUIDs		■	
002 History		■	
010 Naming		■	
020 Placement			
020-1 Placement Relative		■	
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit		■	
030-9 Geometry By Components		■	
040 Presentation			
040-1 Geometric Presentation		■	
050 CAD Layer		■	
100 Element Aggregation			
100-2 Element Decomposition		■	
120 Spatial Containment		■	
200 Material			
200-1 Single Material		■	
200-5 Material List		■	

210 Property Set		
210-1 Property Set IFC Common		
210-3 Property Set User Defined		
300 Type		
300-1 Type Geometry		
300-2 Type Naming		
300-3 Type Material		
300-5 Type Property Set		
501 IfcProject		<i>company statement</i> CurtainWall-01 / 2x3
010 Naming		
502 IfcSite		<i>company statement</i> CurtainWall-01 / 2x3
010 Naming		
060 Location		
060-1 Geographic Location		
060-2 Address		
503 IfcBuilding		<i>company statement</i> CurtainWall-01 / 2x3
010 Naming		
020 Placement		
020-2 Placement Relative		
504 IfcBuildingStorey		<i>company statement</i> CurtainWall-01 / 2x3
010 Naming		
020 Placement		
020-2 Placement Relative		
060 Location		
060-4 Storey Elevation		

210 Property Set		
210-1 Property Set IFC Common	■	
General		<i>company statement</i>
__G4 Remarks	■	

Door 01 / 2x3



302 IfcDoor	company statement		Door 01 / 2x3
001 GUIDs		■	
002 History		■	
010 Naming		■	
020 Placement			
020-2 Placement Relative		■	
030 Geometry			
030-5 Geometry Profile		■	
030-6 Geometry Body			
030-6-5 Geometry Explicit		■	
030-6-9 Geometry Mapped		■	
040 Presentation			
040-1 Geometric Presentation		■	
050 CAD Layer		■	
080 Filling			
080-2 Is Filling		■	
120 Spatial Containment		■	
200 Material			
200-1 Single Material		■	
200-5 Material List		■	

210 Property Set	
210-1 Property Set IFC Common	■
210-2 Property Set IFC any	■
210-3 Property Set User Defined	■
300 Type	
300-1 Type Geometry	■
300-2 Type Naming	■
300-3 Type Material	■
300-5 Type Property Set	■
300-6 Type Predefined Properties	
300-6-1 Type Predefined Properties Door	■
General	company statement
_G4 Remarks	■

Door 01 / 2x3

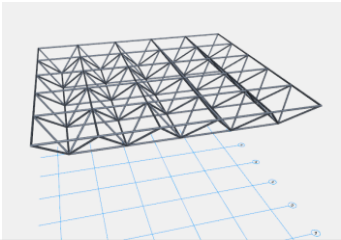
DoorWindow-02 / 2x3



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	■ ACA has some limited to modify the single component of window freely. so it hard to creat the window, which lining and frame is offset from the center, we can make sure the whole window measure is correct, but fail to create these components' accuracy. so set it as "restricted". please see attached email for more information	
080 Filling 080-2 Is Filling	■	
300 Type 300-1 Type Geometry	■	
302 IfcDoor	company statement	DoorWindow-02 / 2x3
001 GUIDs	■	
020 Placement 020-2 Placement Relative	■	
030 Geometry 030-6 Geometry Body 030-6-5 Geometry Explicit	■	

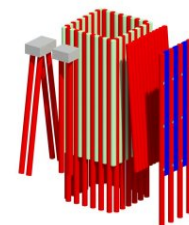
080 Filling	
080-2 Is Filling	■
300 Type	
300-1 Type Geometry	■
General	company statementDoorWindow-02 / 2x3
_G4 Remarks	■

Member 01A / 2x3



lfcMember	company statement		Member 01A / 2x3
010 Naming		■	
020 Placement			
020-2 Placement Relative		■	
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid		■	
030-6-2 Geometry Clipping		■	
040 Presentation			
040-1 Geometric Presentation		■	
040-2 Material Presentation		■	
120 Spatial Containment		■	
200 Material			
200-1 Single Material		■	
300 Type			
300-1 Type Geometry		■	
General	company statement		Member 01A / 2x3
_G4 Remarks		■	

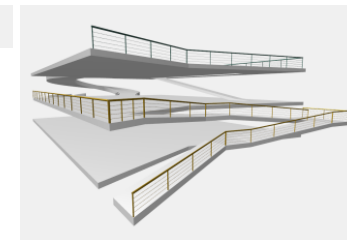
Pile 01 / 2x3



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

200 Material	
200-1 Single Material	Not Supported
210 Property Set	
210-3 Property Set User Defined	Supported
300 Type	
300-1 Type Geometry	Not Supported
300-3 Type Material	Not Supported
300-5 Type Property Set	Not Supported
General	company statement
_G4 Remarks	Not Supported

RampRailing-01 / 2x3

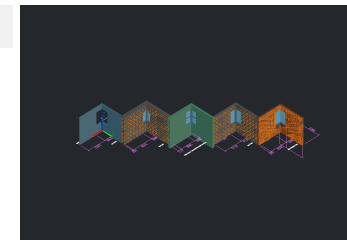


107 IfcRamp	company statement		RampRailing-01 / 2x3
001 GUIDs	■		
002 History	■		
010 Naming	■		
020 Placement			
020-1 Placement Relative	■		
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit	■		
030-9 Geometry By Components	■	IN ACA, we exported ACA stair and ramp objects as a brep type in ifc exported, so it has no components, set it as " not supported". (shouqi 12.24.2014)	
040 Presentation			
040-1 Geometric Presentation	■		
050 CAD Layer	■	IN ACA, because we used xref, so all the cad layers will have a xref name as a prefix, so set the item as "restricted". (shouqi 12.24.2014)	
100 Element Aggregation			
100-2 Element Decomposition	■	IN ACA, ifcexport of ACA stair and ramp objects can't support element decomposition concept, set it as " not supported". (shouqi 12.24.2014)	
120 Spatial Containment	■		
200 Material			
200-1 Single Material	■		

210 Property Set	
210-1 Property Set IFC Common	■
210-3 Property Set User Defined	■
108 IfcRailing	<i>company statement</i> RampRailing-01 / 2x3
001 GUIDs	■
002 History	■
010 Naming	■
020 Placement	
020-2 Placement Relative	■
030 Geometry	
030-6 Geometry Body	
030-6-1 Geometry SweptSolid	■
030-6-5 Geometry Explicit	■
030-6-9 Geometry Mapped	■
040 Presentation	
040-1 Geometric Presentation	■
050 CAD Layer	■ IN ACA, because we used xref, so all the cad layers will have a xref name as a prefix, so set the item as "restricted". (shouqi 12.24.2014)
120 Spatial Containment	■
200 Material	
200-1 Single Material	■
200-5 Material List	■
210 Property Set	
210-1 Property Set IFC Common	■
210-3 Property Set User Defined	■

General	company statement	RampRailing-01 / 2x3
_G4 Remarks		

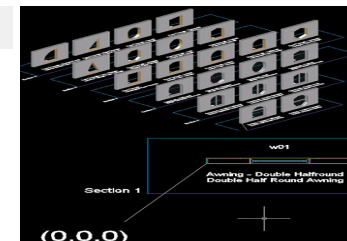
RandomArch-X1 / 2x3



301 IfcWindow	company statement		RandomArch-X1 / 2x3
001 GUIDs	■		
010 Naming	■		
020 Placement			
020-2 Placement Relative	■	I try to explain the replacement problem: In case of normal window, we have straight relation between local placement of window->opening->wall->storey->building. In case of corner window, two walls are involved. So there is only one window object but two openings on two walls. You can see in the IFCEXplorer tree that, local placement of window object itself has direct relation with building (not with opening ,wall like normal window object). But the two openings have linked local placement with wall, storey, building etc. So basically, in case of corner window, the local placement of window is directly with building. And local placements of openings are with wall and other objects. I think this makes sense .	
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit	■		
040 Presentation			
040-1 Geometric Presentation	■		
050 CAD Layer	■		
080 Filling			
080-2 Is Filling	■		
120 Spatial Containment	■		

210 Property Set	
210-1 Property Set IFC Common	■ we only set Pset_WindowCommon for 2 corner window, for others 3, we set Pset_DoorWindowGlazingType, please see instruction page 16,17.
210-2 Property Set IFC any	■
300 Type	
300-2 Type Naming	■
General	<i>company statement</i>
_G4 Remarks	■

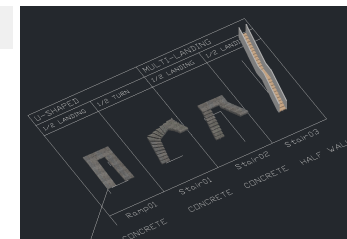
RandomArch-X2 / 2x3



301 IfcWindow	company statement		RandomArch-X2 / 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		■	
080 Filling			
080-2 Is Filling		■	
120 Spatial Containment		■	
210 Property Set			
210-1 Property Set IFC Common		■	
210-2 Property Set IFC any		■	
300 Type			
300-2 Type Naming		■	

General	company statement	RandomArch-X2 / 2x3
_G4 Remarks		

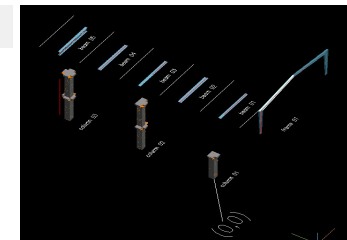
RandomArch-X3 / 2x3



106 IfcStair	company statement		RandomArch-X3 / 2x3
020 Placement			
020-1 Placement Relative		■	
030 Geometry			
030-2 Geometry Axis		■	
030-6 Geometry Body			
030-6-5 Geometry Explicit		■	
120 Spatial Containment		■	
200 Material			
200-1 Single Material		■	
210 Property Set			
210-1 Property Set IFC Common		■	
107 IfcRamp	company statement		RandomArch-X3 / 2x3
020 Placement			
020-1 Placement Relative		■	
030 Geometry			
030-2 Geometry Axis		■	
030-6 Geometry Body			
030-6-5 Geometry Explicit		■	
120 Spatial Containment		■	

200 Material	
200-1 Single Material	■
210 Property Set	
210-1 Property Set IFC Common	■
General	company statement
RandomArch-X3 / 2x3	
_G4 Remarks	■

RandomArch-X4 / 2x3



103 IfcBeam	company statement		RandomArch-X4 / 2x3
001 GUIDs	■		
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■	the reason is , only beam 05 have opening(hole), but aca can not export the opening information now, we only can export whole object as a BREP.set as "restricted"	
030-6-9 Geometry Mapped	■	has the same reason as the above item's, set as "restricted"	
050 CAD Layer	■		
120 Spatial Containment	■		
200 Material			
200-1 Single Material	■		
210 Property Set			
210-1 Property Set IFC Common	■	correct the value.	
300 Type			
300-2 Type Naming	■		
104 IfcColumn	company statement		RandomArch-X4 / 2x3

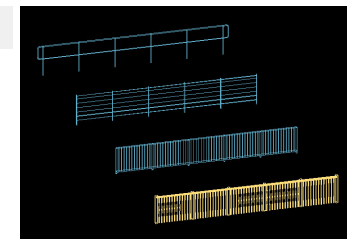
001 GUIDs		
010 Naming		
020 Placement		
020-2 Placement Relative		
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid		set as "not supported"
030-6-2 Geometry Clipping		set as "not supported"
040 Presentation		
040-1 Geometric Presentation		set as "not supported"
050 CAD Layer		set as "restricted",because of have a xref prefix
120 Spatial Containment		
200 Material		
200-1 Single Material		I discussed the problem with our dev, I got a wrong understanding about it before, In this case, we used some special columns here, it is not possible to export such columns with single material, I'll set this concept to "restricted". the reason we used a property set directly for style, already correct now
210 Property Set		
210-1 Property Set IFC Common		correct it now, please check update file
300 Type		
300-2 Type Naming		
General	company statement	

RandomArch-X4 / 2x3

_G4 Remarks



RandomArch-X5 / 2x3



108 IfcRailing	company statement		RandomArch-X5 / 2x3
001 GUIDs		■	
002 History		■	
010 Naming		■	
020 Placement			
020-2 Placement Relative		■	
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid		■	
030-6-5 Geometry Explicit		■	
030-6-9 Geometry Mapped		■	
040 Presentation			
040-1 Geometric Presentation		■	
050 CAD Layer		■	
120 Spatial Containment		■	
200 Material			
200-1 Single Material		■	
200-5 Material List		■	

210 Property Set	
210-1 Property Set IFC Common	■
210-3 Property Set User Defined	■
General	<i>company statement</i>
<i>_G4 Remarks</i>	■

RandomArch-X5 / 2x3

ReplacementTest_forGrid-01 / 2x3

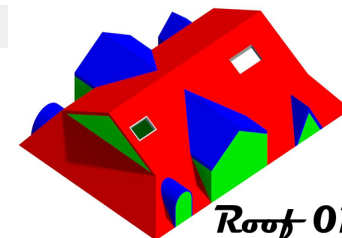
Thumbnail of ApplicationSpecificTest

Please replace the placeholder
with your own thumbnail.

509 IfcGrid	company statement		ReplacementTest_forGrid-01 / 2x3
001 GUIDs			
002 History			
010 Naming			
020 Placement			
020-2 Placement Relative			
030 Geometry			
030-3 Geometry FootPrint			
040 Presentation			
040-1 Geometric Presentation			
050 CAD Layer		The CAD layer name will be ReplacementTest_forGrid-01_ACA_xref. Prefix added because of xref.	
100 Element Aggregation			
100-1 Element Composition		The IFCGrid is not exported as aggregated element.	
100-2 Element Decomposition		IfcGrid is not exported as element or as container' for aggregated elements	
120 Spatial Containment			
130 Grouping			
130-1 Grouping General		No mechanism for grouping the grid element. No instance of IfcGroup created.	
200 Material		Material is not allowed for IFCGRID in the Coordination View.	

210 Property Set	
210-1 Property Set IFC Common	There is not IFC property set linked to the IfcGrid element.
210-2 Property Set IFC any	There is not IFC property set linked to the IfcGrid element.
210-3 Property Set User Defined	No provision for any user defined or system defined property set for grid.
230 Classification	No provision of a classification reference for IfcGrid element.
270 Grid Usage	
270-1 Grid Axes	
300 Type	No "Type" information exported for the grid element which can be used to link to common element types.
General	company statementReplacementTest_forGrid-01 / 2x3
_G4 Remarks	

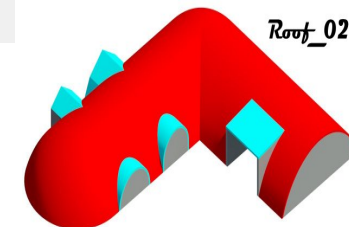
Roof 01 / 2x3



101 IfcWallStandardCase	company statement		Roof 01 / 2x3
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid			
030-6-2 Geometry Clipping			
105 IfcSlab	company statement		Roof 01 / 2x3
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid		use roofslab as instead, set as "restricted"	
030-6-2 Geometry Clipping		use roofslab as instead, set as "restricted"	
030-6-9 Geometry Mapped		we use roofslab instead of roof, so set it as "not supported"	
070 Voiding			
070-3 Voiding Geometry SweptSolid		In this case, the roofslab with holes has B-rep geometry representation because it has a cut body modifier or non-rectangle outline shape. If the roof-slab has just one or more holes, it will be exported to IfcSlab with some openings associated with it.	
080 Filling			
080-1 Has Filling			
080-1-2 Has Filling Window		Window cannot anrchor to the roofslab in ACA. In this case, Window and RoofSlab will be independant for each other	
200 Material			
200-2 Material Layer Set			
110 IfcRoof	company statement		Roof 01 / 2x3

030 Geometry	
030-1 Geometry Box	we use roofslab instead of roof, so set it as "not supported"
040 Presentation	
040-1 Geometric Presentation	use roofslab as instead, set as "restricted"
040-2 Material Presentation	we use roofslab instead of roof, so set it as "not supported"
100 Element Aggregation	
100-2 Element Decomposition	use roofslab as instead, set as "restricted"
120 Spatial Containment	use roofslab as instead, set as "restricted"
200 Material	
200-1 Single Material	we use roofslab instead of roof, so set it as "not supported"
General	<i>company statement</i> Roof 01 / 2x3
_G4 Remarks	

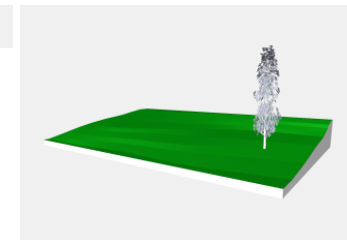
Roof 02 / 2x3



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

General	company statement	Roof 02 / 2x3
_G4 Remarks		

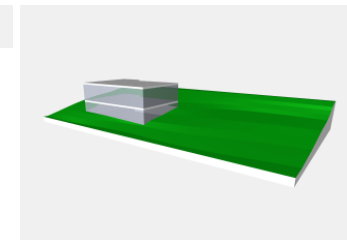
Site 01 / 2x3



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

General	company statement	Site 01 / 2x3
_G4 Remarks		

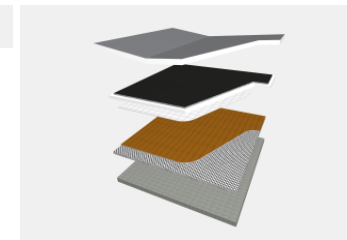
Site 02 / 2x3



502 IfcSite	company statement		Site 02 / 2x3
010 Naming		■	
020 Placement			
020-1 Placement Absolute		■	
030 Geometry			
030-3 Geometry FootPrint		■	
030-6 Geometry Body			
030-6-5 Geometry Explicit		■	
150 Spatial Aggregation			
150-1 Spatial Composition		■	
150-2 Spatial Decomposition		■	
210 Property Set			
210-9 Property Set User Defined		■	
503 IfcBuilding	company statement		Site 02 / 2x3
010 Naming		■	
020 Placement			
020-2 Placement Relative		■	
150 Spatial Aggregation			
150-1 Spatial Composition		■	
150-2 Spatial Decomposition		■	

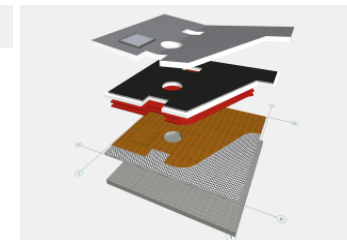
210 Property Set		
210-1 Property Set IFC Common	■	
General		company statement
Site 02 / 2x3		
_G4 Remarks	■	

Slab 01A / 2x3



105 IfcSlab	company statement		Slab 01A / 2x3
010 Naming		■	
020 Placement			
020-2 Placement Relative		■	
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid		■	
030-6-2 Geometry Clipping		■	
050 CAD Layer		■	
200 Material			
200-2 Material Layer Set		■	
200-3 Material Layer Usage		■	
210 Property Set			
210-1 Property Set IFC Common		■	
General	company statement		Slab 01A / 2x3
_G4 Remarks		■	

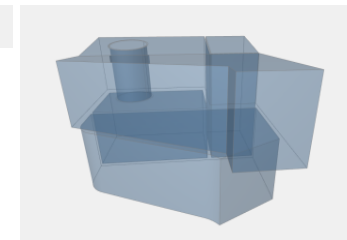
Slab 02A / 2x3



105 IfcSlab	company statement		Slab 02A / 2x3
010 Naming		■	
020 Placement			
020-2 Placement Relative		■	
030 Geometry			
030-1 Geometry Box		■	
030-6 Geometry Body			
030-6-1 Geometry SweptSolid		■	
030-6-2 Geometry Clipping		■	
030-6-5 Geometry Explicit		■	
030-6-9 Geometry Mapped		■	
070 Voiding			
070-1 Voiding Geometry Explicit		■	
070-2 Voiding Geometry Mapped		■	
070-3 Voiding Geometry SweptSolid		■	
080 Filling			
080-1 Has Filling			
080-1-1 Has Filling Door		■	
080-1-2 Has Filling Window		■	
120 Spatial Containment		■	

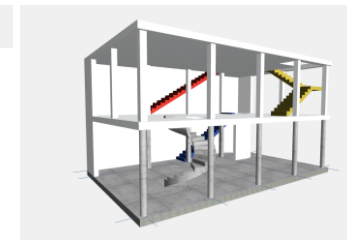
130 Grouping	
130-1 Grouping General	Not Supported
200 Material	
200-1 Single Material	Not Supported
200-2 Material Layer Set	Supported
210 Property Set	
210-1 Property Set IFC Common	Supported
210-2 Property Set IFC any	Supported
210-3 Property Set User Defined	Supported
300 Type	
300-1 Type Geometry	Not Supported
300-2 Type Naming	Supported
300-3 Type Material	Supported
300-5 Type Property Set	Supported
General	company statement
Slab 02A / 2x3	
_G4 Remarks	Supported

Space 01A / 2x3



505 IfcSpace	company statement		Space 01A / 2x3
001 GUIDs		■	
002 History		■	
010 Naming		■	
020 Placement			
020-2 Placement Relative		■	
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid		■	
030-6-2 Geometry Clipping		■	
040 Presentation			
040-1 Geometric Presentation		■	
050 CAD Layer		■	
150 Spatial Aggregation			
150-1 Spatial Composition		■	
210 Property Set			
210-1 Property Set IFC Common		■	
210-6 Property Set IFC any		■	
General	company statement		Space 01A / 2x3
_G4 Remarks		■	

StairSlab-01 / 2x3

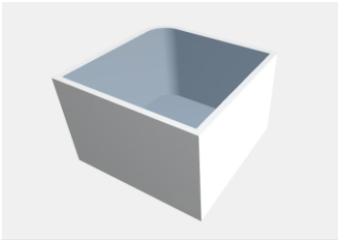


105 IfcSlab	company statement		StairSlab-01 / 2x3
001 GUIDs	■		
002 History	■		
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
040 Presentation			
040-1 Geometric Presentation	■		
040-2 Material Presentation	■		
070 Voiding			
070-3 Voiding Geometry SweptSolid	■		
106 IfcStair	company statement		StairSlab-01 / 2x3
001 GUIDs	■		
002 History	■		
010 Naming	■		
020 Placement			
020-1 Placement Relative	■		

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

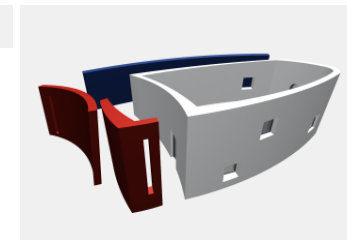
StairSlab-01 / 2x3

UnitTest-01A / 2x3



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

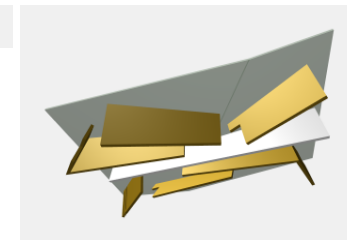
Wall 01 / 2x3



102 IfcWall	company statement		Wall 01 / 2x3
002 History		■	
010 Naming		■	
020 Placement			
020-2 Placement Relative		■	
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid		■	
030-6-2 Geometry Clipping		■	
030-6-5 Geometry Explicit		■	
040 Presentation			
040-1 Geometric Presentation		■	
040-2 Material Presentation		■	
070 Voiding			
070-1 Voiding Geometry Explicit		■	
070-3 Voiding Geometry SweptSolid		■	
080 Filling			
080-1 Has Filling			
080-1-1 Has Filling Door		■	
080-1-2 Has Filling Window		■	

200 Material		
200-1 Single Material	■	
210 Property Set		
210-1 Property Set IFC Common	■	
300 Type		
300-3 Type Material	■	
300-5 Type Property Set	■	
301 IfcWindow		company statement Wall 01 / 2x3
020 Placement		
020-2 Placement Relative	■	
302 IfcDoor		company statement Wall 01 / 2x3
020 Placement		
020-2 Placement Relative	■	
General		company statement Wall 01 / 2x3
_G4 Remarks	■	

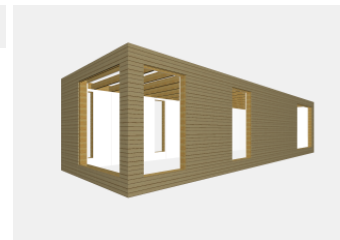
Wall 02 / 2x3



102 IfcWall	company statement		Wall 02 / 2x3
010 Naming		■	
020 Placement			
020-2 Placement Relative		■	
030 Geometry			
030-2 Geometry Axis		■	
030-6 Geometry Body			
030-6-1 Geometry SweptSolid		■	
030-6-2 Geometry Clipping		■	
030-6-5 Geometry Explicit		■	
050 CAD Layer		■	
070 Voiding			
070-1 Voiding Geometry Explicit		■	
070-3 Voiding Geometry SweptSolid		■	
120 Spatial Containment		■	
130 Grouping			
130-1 Grouping General		■	
200 Material			
200-3 Material Layer Set		■	

300 Type		
300-2 Type Naming	■	
General		company statement
_G4 Remarks	■	

WallSlab 03 / 2x3

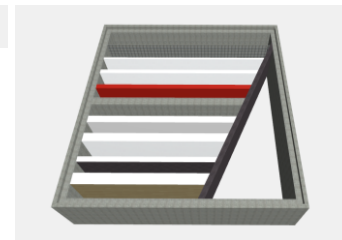


102 IfcWall	company statement		WallSlab 03 / 2x3
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-9 Geometry By Components	■		
070 Voiding			
070-3 Voiding Geometry SweptSolid	■		
100 Element Aggregation			
100-2 Element Decomposition	■		
210 Property Set			
210-1 Property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

501 IfcProject		company statement	WallSlab 03 / 2x3
001 GUIDs			
002 History			
005 Project Units			
005-1 Project Metric Units			
008 Representation Context			
008-1 Representation Main Context			
008-2 Representation Sub Context			
008-2-2 Representation Sub Context 3D			
010 Naming			
150 Spatial Aggregation			
150-2 Spatial Decomposition			
503 IfcBuilding		company statement	WallSlab 03 / 2x3
001 GUIDs			
002 History			
010 Naming			
020 Placement			
020-1 Placement Absolute			
150 Spatial Aggregation			
150-1 Spatial Composition			
150-2 Spatial Decomposition			
504 IfcBuildingStorey		company statement	WallSlab 03 / 2x3
001 GUIDs			
002 History			
010 Naming			

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

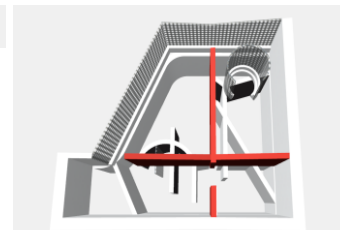
WallStandardCase 01A / 2x3



101 IfcWallStandardCase	company statement		WallStandardCase 01A / 2x3
010 Naming		■	
020 Placement			
020-2 Placement Relative		■	
030 Geometry			
030-2 Geometry Axis		■	
030-6 Geometry Body			
030-6-1 Geometry SweptSolid		■	
030-6-2 Geometry Clipping		■	
040 Presentation			
040-1 Geometric Presentation		■	
040-2 Material Presentation		■	
050 CAD Layer		■	
110 Connectivity			
110-2 Connectivity Path		■	
120 Spatial Containment		■	
200 Material			
200-4 Material Layer Usage		■	
210 Property Set			
210-3 Property Set User Defined		■	

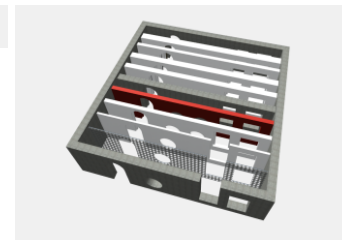
300 Type	
300-3 Type Material	■
300-5 Type Property Set	■
General	company statement
WallStandardCase 01A / 2x3	
_G4 Remarks	■

WallStandardCase 02A / 2x3



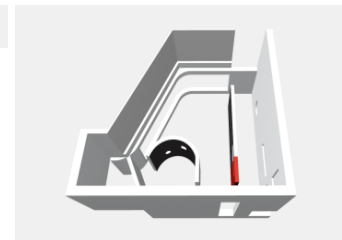
101 IfcWallStandardCase	company statement		WallStandardCase 02A / 2x3
010 Naming		■	
020 Placement			
020-2 Placement Relative		■	
030 Geometry			
030-2 Geometry Axis		■	
030-6 Geometry Body			
030-6-1 Geometry SweptSolid		■	
030-6-2 Geometry Clipping		■	
050 CAD Layer		■	
110 Connectivity			
110-2 Connectivity Path		■	
120 Spatial Containment		■	
200 Material			
200-4 Material Layer Usage		■	
210 Property Set			
210-1 Property Set IFC Common		■	
General	company statement		WallStandardCase 02A / 2x3
_G4 Remarks		■	

WallStandardCase 03A / 2x3



101 IfcWallStandardCase		<i>company statement</i>	WallStandardCase 03A / 2x3
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-2 Geometry Axis	■		
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
070 Voiding			
070-1 Voiding Geometry SweptSolid	■		
070-2 Voiding Geometry Explicit	■		
070-3 Voiding Geometry Mapped	■		
120 Spatial Containment	■		
General		<i>company statement</i>	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		■	
120 Spatial Containment		■	
General	company statement		WallStandardCase 04A / 2x3
_G4 Remarks		■	

Window 01 / 2x3



301 IfcWindow	company statement		Window 01 / 2x3
001 GUIDs		■	
002 History		■	
010 Naming		■	
020 Placement			
020-2 Placement Relative		■	
030 Geometry			
030-5 Geometry Profile		■	
030-6 Geometry Body			
030-6-5 Geometry Explicit		■	
030-6-9 Geometry Mapped		■	
040 Presentation			
040-1 Geometric Presentation		■	
050 CAD Layer		■	
080 Filling			
080-2 Is Filling		■	
120 Spatial Containment		■	
200 Material			
200-1 Single Material		■	
200-5 Material List		■	

210 Property Set	
210-1 Property Set IFC Common	■
210-2 Property Set IFC any	■
210-3 Property Set User Defined	■
300 Type	
300-1 Type Geometry	■
300-2 Type Naming	■
300-3 Type Material	■
300-5 Type Property Set	■
300-6 Type Predefined Properties	
300-6-1 Type Predefined Properties Window	■
General	company statement
_G4 Remarks	■