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Introduction

ARCHLine.XP 2017 is a single building information modeling (BIM) software application for building design with terrain modelling and interior design.

The software has integrated with Gear Energy the calculation tool to determine the required energy performance and verifications.

ARCHLine.XP supports quantity take-off and cost estimating features with automatic sorting in Excel to building, story and room.

ARCHLine.XP 2017 has IFC support for CV2.0-Architecture Export. IFC interfaces to export IFC files are fully integrated into ARCHLine.XP 2016.

The certified IFC import will be available in ARCHLine.XP after reaching certification.

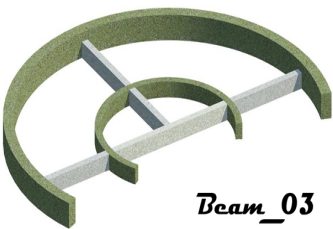
Updates of IFC interface improvements are available with the public ARCHLine.XP Hotfixes. Budapest, 18 October, 2016
CadLine Ltd

Testlist

Name test	concepts total	manually checked		
				
BeamColumn 04 / 2x3	47	41		
Beam_03 / 2x3	6	6		
CharsetTest-01A / 2x3	2	2		
Column_02 / 2x3	6	5		
CoveringFurnishing-01 / 2x3	57	52		2
CurtainWall-01 / 2x3	29	28		
Door 01 / 2x3	22	21		1
Grid 01 / 2x3	11	11		
Member 01A / 2x3	10	10		
Pile 01 / 2x3	19	17		1
PlateFastener-01 / 2x3	67	52		
RampRailing-01 / 2x3	28	28		
RandomArch-X1 AC16 / 2x3	53	53		
RandomArch-X1 RAC / 2x3	17	13	4	
RandomArch-X2 Allplan2013 / 2x3	11	11		
RandomArch-X5 RAC / 2x3	13	13		
RandomStruc-X1 Scia / 2x3	9	7		
Reinforcement-01 / 2x3	94	55		
Roof 01 / 2x3	15	13		2
Site 02 / 2x3	13	12		1
Slab 01A / 2x3	9	9		
Space 01A / 2x3	12	12		
StairSlab-01 / 2x3	19	19		
Wall 02 / 2x3	14	14		
WallStandardCase 04A / 2x3	8	7		
Window 01 / 2x3	22	20		1

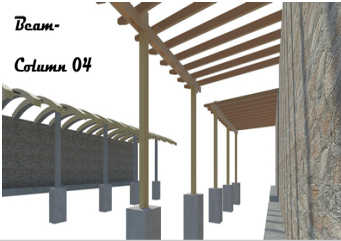
Concepts

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		■	

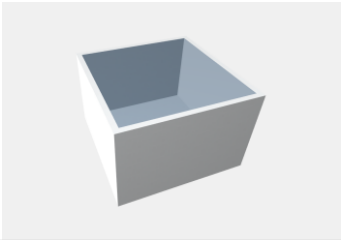
210 Property Set	
210-1 Property Set IFC Common	■
210-3 Property Set User Defined	■
300 Type	
300-1 Type Geometry	■
300-2 Type Naming	■
300-3 Type Material	■
300-5 Type Property Set	■
104 IfcColumn	<i>company statement</i>
	<i>BeamColumn 04 / 2x3</i>
001 GUIDs	■
002 History	■
010 Naming	■
020 Placement	
020-2 Placement Relative	■
030 Geometry	
030-6 Geometry Body	
030-6-1 Geometry SweptSolid	■
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	company statement
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		

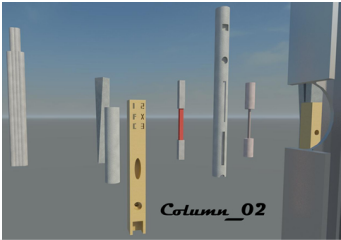
BeamColumn 04 / 2x3

CharsetTest-01A / 2x3



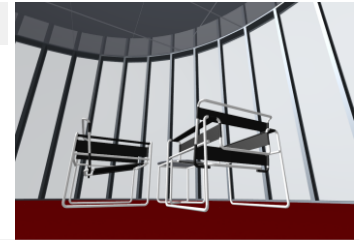
General	company statement		CharsetTest-01A / 2x3
_G1 Character sets		■	
_G4 Remarks		■	

Column_02 / 2x3



104 IfcColumn	company statement		Column_02 / 2x3
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid			
030-6-5 Geometry Explicit			
070 Voiding			
070-1 Voiding Geometry Explicit			
070-2 Voiding Geometry Mapped		The software do support this concept	
070-3 Voiding Geometry SweptSolid			
General	company statement		Column_02 / 2x3
_G4 Remarks			

CoveringFurnishing-01 / 2x3



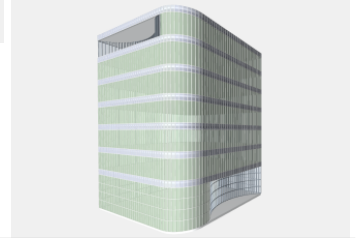
210 IfcFlowTerminal	company statement		CoveringFurnishing-01 / 2x3
001 GUIDs		■	
010 Naming		■	
020 Placement			
020-2 Placement Relative		■	
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit		■	
030-6-9 Geometry Mapped		■	
040 Presentation			
040-1 Geometric Presentation		■	
050 CAD Layer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

300 Type	
300-1 Type Geometry	■
300-2 Type Naming	■
300-3 Type Material	■
300-5 Type Property Set	■
303 IfcCovering	<i>company statement</i> CoveringFurnishing-01 / 2x3
010 Naming	■
020 Placement	
020-2 Placement Relative	■
030 Geometry	
030-6 Geometry Body	
030-6-1 Geometry SweptSolid	■
030-6-9 Geometry Mapped	■
040 Presentation	
040-1 Geometric Presentation	■
050 CAD Layer	■
070 Voiding	
120 Spatial Containment	■
200 Material	
200-1 Single Material	■
200-3 Material Layer Set	■
210 Property Set	
210-1 Property Set IFC Common	■

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

300 Type			
300-1 Type Geometry		■	
300-2 Type Naming		■	
300-3 Type Material		■	
300-5 Type Property Set		■	
505 IfcSpace	company statement		CoveringFurnishing-01 / 2x3
030 Geometry			
030-3 Geometry FootPrint		■	Irrelevant data in ARCHline.XP IFC import
030-6 Geometry Body			
030-6-1 Geometry SweptSolid		■	
120 Spatial Containment		■	
130 Grouping			
130-3 Grouping to Zones		■	
230 Classification		■	ARCHline.XP doesn't handle this property
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

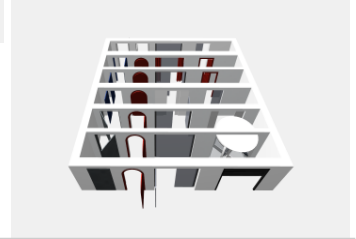


109 IfcCurtainWall	company statement		CurtainWall-01 / 2x3
001 GUIDs		■	
002 History		■	
010 Naming		■	
020 Placement			
020-1 Placement Relative		■	
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit		■	
030-9 Geometry By Components		■	
040 Presentation			
040-1 Geometric Presentation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

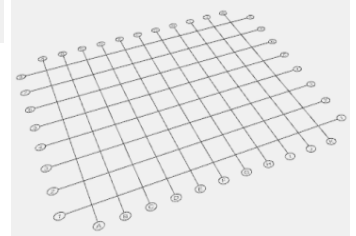
Door 01 / 2x3



302 IfcDoor	company statement		Door 01 / 2x3
001 GUIDs		■	
002 History		■	
010 Naming		■	
020 Placement			
020-2 Placement Relative		■	
030 Geometry			
030-5 Geometry Profile	■	Irrelevant data in ARCHline.XP IFC import	
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		■	

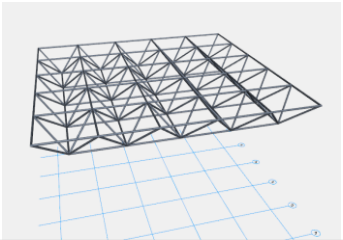
210 Property Set	
210-1 Property Set IFC Common	■
210-2 Property Set IFC any	■
210-3 Property Set User Defined	■
300 Type	
300-1 Type Geometry	■
300-2 Type Naming	■
300-3 Type Material	■
300-5 Type Property Set	■
300-6 Type Predefined Properties	
300-6-1 Type Predefined Properties Door	■
General	company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

Grid 01 / 2x3



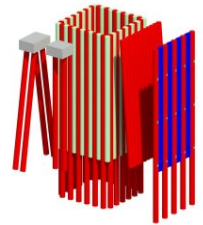
509 IfcGrid		company statement	Grid 01 / 2x3
001 GUIDs	■		
002 History	■		
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-3 Geometry FootPrint	■		
040 Presentation			
040-1 Geometric Presentation	■		
050 CAD Layer	■		
120 Spatial Containment	■		
210 Property Set			
210-3 Property Set User Defined	■		
270 Grid Usage			
270-1 Grid Axes	■		
General		company statement	Grid 01 / 2x3
_G4 Remarks	■		

Member 01A / 2x3



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

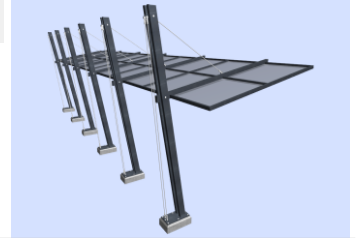
Pile 01 / 2x3



404 IfcPile	company statement		Pile 01 / 2x3
001 GUIDs		■	
002 History		■	
010 Naming		■	
020 Placement			
020-1 Placement Relative		■	
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid		■	
030-6-2 Geometry Clipping		■	
030-6-9 Geometry Mapped		■	
040 Presentation			
040-1 Geometric Presentation		■	
040-2 Material Presentation		■	
050 CAD Layer		■	
070 Voiding			
070-3 Voiding Geometry SweptSolid		■	
100 Element Aggregation			
100-2 Element Decomposition	■	ARCHLine.XP doesn't put piles into group	
120 Spatial Containment		■	

200 Material	
200-1 Single Material	■
210 Property Set	
210-3 Property Set User Defined	■
300 Type	
300-1 Type Geometry	■
300-3 Type Material	■
300-5 Type Property Set	■
General	<i>company statement</i>
_G4 Remarks	■

PlateFastener-01 / 2x3



103 IfcBeam	company statement		PlateFastener-01 / 2x3
001 GUIDs		■	
002 History		■	
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid		■	
030-6-9 Geometry Mapped		■	
104 IfcColumn	company statement		PlateFastener-01 / 2x3
001 GUIDs		■	
002 History		■	
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid		■	
030-6-9 Geometry Mapped		■	
100 Element Aggregation			
100-2 Element Decomposition		■	
210 Property Set			
210-3 Property Set User Defined		■	

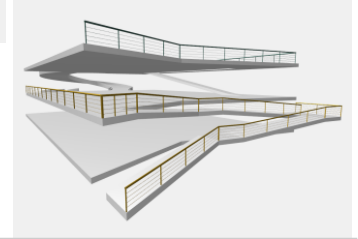
300 Type		
300-1 Type Geometry	■	
300-2 Type Naming	■	
300-3 Type Material	■	
300-5 Type Property Set	■	
401 IfcMember	company statement PlateFastener-01 / 2x3	
001 GUIDs	■	
002 History	■	
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
030-6-9 Geometry Mapped	■	
040 Presentation		
040-1 Geometric Presentation	■	
050 CAD Layer	■	
210 Property Set		
210-1 Property Set IFC Common	■	
210-3 Property Set User Defined	■	
300 Type		
300-2 Type Naming	■	
300-3 Type Material	■	
300-5 Type Property Set	■	
402 IfcPlate	company statement PlateFastener-01 / 2x3	

001 GUIDs	
002 History	
010 Naming	
020 Placement	
020-2 Placement Relative	
030 Geometry	
030-6 Geometry Body	
030-6-1 Geometry SweptSolid	
030-6-2 Geometry Clipping	
030-6-5 Geometry Explicit	
040 Presentation	
040-1 Geometric Presentation	
050 CAD Layer	
070 Voiding	
070-3 Voiding Geometry SweptSolid	
120 Spatial Containment	
200 Material	
200-2 Material Layer Set	
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	■	
403 IfcFooting	company statement	PlateFastener-01 / 2x3
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
030-6-2 Geometry Clipping	■	
405 IfcFastener	company statement	PlateFastener-01 / 2x3
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-2 Geometry Axis	■	
406 IfcMechanicalFastener	company statement	PlateFastener-01 / 2x3
001 GUIDs	■	
002 History	■	
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	

030 Geometry	
030-6 Geometry Body	
030-6-1 Geometry SweptSolid	
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	
300 Type	
300-1 Type Geometry	
300-2 Type Naming	
300-3 Type Material	
300-5 Type Property Set	
General	<i>company statement</i>
_G4 Remarks	

RampRailing-01 / 2x3



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

210 Property Set		
210-1 Property Set IFC Common	■	
210-3 Property Set User Defined	■	
108 IfcRailing	company statement	RampRailing-01 / 2x3
001 GUIDs	■	
002 History	■	
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
030-6-5 Geometry Explicit	■	
030-6-9 Geometry Mapped	■	
040 Presentation		
040-1 Geometric Presentation	■	
050 CAD Layer	■	
120 Spatial Containment	■	
200 Material		
200-1 Single Material	■	
200-5 Material List	■	
210 Property Set		
210-1 Property Set IFC Common	■	
210-3 Property Set User Defined	■	
General	company statement	RampRailing-01 / 2x3

_G4 Remarks	
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RandomArch-X1 AC16 / 2x3

101 IfcWallStandardCase	company statement		RandomArch-X1 AC16 / 2x3
001 GUIDs			
002 History			
010 Naming			
030 Geometry			
030-2 Geometry Axis			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid			
050 CAD Layer			
070 Voiding			
070-1 Voiding Geometry SweptSolid			
080 Filling			
081 Has Filling			
081-2 Has Filling Window			
200 Material			
200-4 Material Layer Usage			
300 Type			
300-2 Type Naming			
102 IfcWall	company statement		RandomArch-X1 AC16 / 2x3
002 History			

010 Naming	
030 Geometry	
030-2 Geometry Axis	
030-6 Geometry Body	
030-6-1 Geometry SweptSolid	
050 CAD Layer	
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	
200-3 Material Layer Set	
210 Property Set	
210-1 Property Set IFC Common	
300 Type	
300-2 Type Naming	
104 IfcColumn	<i>company statement</i>
002 History	
010 Naming	

030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
050 CAD Layer	■	
200 Material		
200-1 Single Material	■	
210 Property Set		
210-1 Property Set IFC Common	■	
300 Type		
300-2 Type Naming	■	
105 IfcSlab	company statement RandomArch-X1 AC16 / 2x3	
002 History	■	
010 Naming	■	
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
050 CAD Layer	■	
070 Voiding		
070-3 Voiding Geometry SweptSolid	■	
200 Material		
200-2 Material Layer Set	■	
200-3 Material Layer Usage	■	
210 Property Set		
210-1 Property Set IFC Common	■	
301 IfcWindow	company statement RandomArch-X1 AC16 / 2x3	

002 History	
010 Naming	
030 Geometry	
030-6 Geometry Body	
030-6-5 Geometry Explicit	
050 CAD Layer	
200 Material	
200-1 Single Material	
300 Type	
300-1 Type Geometry	
300-2 Type Naming	
300-6 Type Predefined Properties	
302 IfcDoor	<i>company statement</i>
002 History	
010 Naming	
030 Geometry	
030-6 Geometry Body	
030-6-5 Geometry Explicit	
050 CAD Layer	
200 Material	
200-1 Single Material	
300 Type	
300-2 Type Naming	
300-6 Type Predefined Properties	
300-6-1 Type Predefined Properties Door	

509 IfcGrid	company statement	RandomArch-X1 AC16 / 2x3
030 Geometry		
General	company statement	RandomArch-X1 AC16 / 2x3
_G4 Remarks		

RandomArch-X1 RAC / 2x3

102 IfcWall	company statement		RandomArch-X1 RAC / 2x3
040 Presentation			
070 Voiding			
070-3 Voiding Geometry SweptSolid			
080 Filling			
080-1 Has Filling			
080-1-1 Has Filling Door		In this case we cannot import the wall as native element, so we can't link the Door to the wall	
080-1-2 Has Filling Window		In this case we cannot import the wall as native element, so we can't link the Window to the wall	
100 Element Aggregation			
100-1 Element Composition			
100-2 Element Decomposition			
200 Material			
200-1 Single Material		ARCHline.XP doesn't read material for building element parts, but reads geometry material	
200-3 Material Layer Set		ARCHline.XP doesn't read material layer set for building element parts, but reads geometry material	
210 Property Set			
210-1 Property Set IFC Common			
105 IfcSlab	company statement		RandomArch-X1 RAC / 2x3
040 Presentation			

100 Element Aggregation		
100-1 Element Composition	■	
100-2 Element Decomposition	■	
200 Material		
200-1 Single Material	■	
210 Property Set		
210-1 Property Set IFC Common	■	
110 IfcRoof	company statement RandomArch-X1 RAC / 2x3	
040 Presentation		
100 Element Aggregation		
100-1 Element Composition	■	
100-2 Element Decomposition	■	
200 Material		
200-1 Single Material	■	
210 Property Set		
210-1 Property Set IFC Common	■	
General	company statement RandomArch-X1 RAC / 2x3	
_G4 Remarks	■	

RandomArch-X2 Allplan2013 / 2x3

303 IfcCovering		<i>company statement</i>	<i>RandomArch-X2 Allplan2013 / 2x3</i>
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
040 Presentation			
040-2 Material Presentation	■		
050 CAD Layer	■		
120 Spatial Containment	■		
200 Material			
200-3 Material Layer Set	■		
505 IfcSpace		<i>company statement</i>	<i>RandomArch-X2 Allplan2013 / 2x3</i>
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-6 Geometry Body			
030-6-2 Geometry Clipping	■		

General	company statement	RandomArch-X2 Allplan2013 / 2x3
_G4 Remarks		

RandomArch-X5 RAC / 2x3

106 IfcStair		<i>company statement</i>	<i>RandomArch-X5 RAC / 2x3</i>
001 GUIDs	■		
002 History	■		
010 Naming	■		
020 Placement			
020-1 Placement Relative	■		
030 Geometry			
030-9 Geometry By Components	■		
040 Presentation			
040-1 Geometric Presentation	■		
040-2 Material Presentation	■		
120 Spatial Containment	■		
108 IfcRailing		<i>company statement</i>	<i>RandomArch-X5 RAC / 2x3</i>
001 GUIDs	■		
002 History	■		
020 Placement			
020-2 Placement Relative	■		
040 Presentation			
040-1 Geometric Presentation	■		
General		<i>company statement</i>	<i>RandomArch-X5 RAC / 2x3</i>

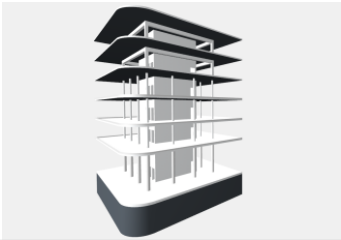
_G4 Remarks	
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RandomStruc-X1 Scia / 2x3

103 IfcBeam	company statement		RandomStruc-X1 Scia / 2x3
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid		■	
030-6-5 Geometry Explicit		■	
200 Material			
200-1 Single Material		■	
104 IfcColumn	company statement		RandomStruc-X1 Scia / 2x3
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid		■	
030-6-5 Geometry Explicit		■	
402 IfcPlate	company statement		RandomStruc-X1 Scia / 2x3
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid		■	
406 IfcMechanicalFastener	company statement		RandomStruc-X1 Scia / 2x3
010 Naming		■	
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit		■	

General	company statement	RandomStruc-X1 Scia / 2x3
_G4 Remarks		

Reinforcement-01 / 2x3



101 IfcWallStandardCase	company statement		Reinforcement-01 / 2x3
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
120 Spatial Containment	■		
103 IfcBeam	company statement		Reinforcement-01 / 2x3
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
120 Spatial Containment	■		
104 IfcColumn	company statement		Reinforcement-01 / 2x3
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		

120 Spatial Containment		
105 IfcSlab		<i>company statement</i> Reinforcement-01 / 2x3
020 Placement		
020-2 Placement Relative		
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid		
120 Spatial Containment		
403 IfcFooting		<i>company statement</i> Reinforcement-01 / 2x3
010 Naming		
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid		
040 Presentation		
040-1 Geometric Presentation		
050 CAD Layer		
120 Spatial Containment		
210 Property Set		
210-3 Property Set User Defined		
407 IfcDiscreteAccessory		<i>company statement</i> Reinforcement-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	■
210 Property Set	
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	■
408 IfcElementAssembly	company statement
001 GUIDs	■
010 Naming	■
020 Placement	
020-2 Placement Relative	■
030 Geometry	
030-6 Geometry Body	
030-9 Geometry By Components	■

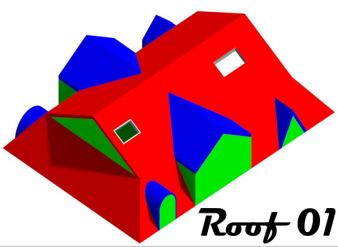
040 Presentation		
040-1 Geometric Presentation	■	
050 CAD Layer	■	
100 Element Aggregation		
100-2 Element Decomposition	■	
120 Spatial Containment	■	
210 Property Set		
210-9 Property Set User Defined	■	
409 IfcReinforcingBar		<i>company statement</i> Reinforcement-01 / 2x3
001 GUIDs	■	
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-6 Geometry Body		
030-6-4 Geometry AdvancedSweptSolid	■	
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	
210-9 Property Set User Defined	■
300 Type	
300-1 Type Geometry	■
300-2 Type Naming	■
300-3 Type Material	■
300-5 Type Property Set	■
410 IfcReinforcingMesh	<i>company statement</i> Reinforcement-01 / 2x3
001 GUIDs	■
010 Naming	■
020 Placement	
020-2 Placement Relative	■
030 Geometry	
030-6 Geometry Body	
030-6-4 Geometry AdvancedSweptSolid	■
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	
210-9 Property Set User Defined	■

300 Type		
300-1 Type Geometry	■	
300-2 Type Naming	■	
300-3 Type Material	■	
300-5 Type Property Set	■	
501 IfcProject	company statement	Reinforcement-01 / 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	Reinforcement-01 / 2x3
001 GUIDs	■	
002 History	■	
010 Naming	■	
020 Placement		
020-1 Placement Absolute	■	
060 Location		
060-2 Address	■	

150 Spatial Aggregation		
150-1 Spatial Composition	■	
150-2 Spatial Decomposition	■	
504 IfcBuildingStorey	company statement	
		Reinforcement-01 / 2x3
001 GUIDs	■	
002 History	■	
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
060 Location		
060-4 Storey Elevation	■	
120 Spatial Containment	■	
150 Spatial Aggregation		
150-1 Spatial Composition	■	
150-2 Spatial Decomposition	■	
General	company statement	
		Reinforcement-01 / 2x3
_G4 Remarks	■	

Roof 01 / 2x3

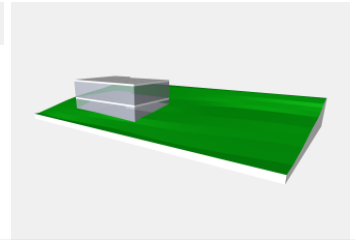


101 IfcWallStandardCase	company statement		Roof 01 / 2x3
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid			
030-6-2 Geometry Clipping			
105 IfcSlab	company statement		Roof 01 / 2x3
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid			
030-6-2 Geometry Clipping			
030-6-9 Geometry Mapped			
070 Voiding			
070-3 Voiding Geometry SweptSolid			
080 Filling			
080-1 Has Filling			
080-1-2 Has Filling Window		ARCHline.XP doesn't attach Doors/Windows into slabs.	
200 Material			
200-2 Material Layer Set			
110 IfcRoof	company statement		Roof 01 / 2x3
030 Geometry			
030-1 Geometry Box		ARCHline.XP doesn't read geometry box for roofs	

040 Presentation	
040-1 Geometric Presentation	■
040-2 Material Presentation	■
100 Element Aggregation	
100-2 Element Decomposition	■
120 Spatial Containment	■
200 Material	
200-1 Single Material	■
General	<i>company statement</i>
_G4 Remarks	■

Roof 01 / 2x3

Site 02 / 2x3

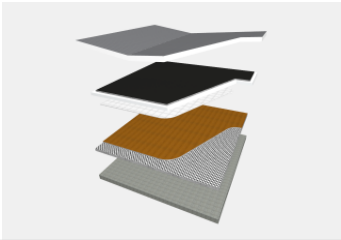


502 IfcSite	company statement		Site 02 / 2x3
010 Naming	■		
020 Placement			
020-1 Placement Absolute	■		
030 Geometry			
030-3 Geometry FootPrint	■	No footprint representation supported in ArchLINE.XP.	
030-6 Geometry Body			
030-6-5 Geometry Explicit	■		
150 Spatial Aggregation			
150-1 Spatial Composition	■		
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
_G4 Remarks	■	

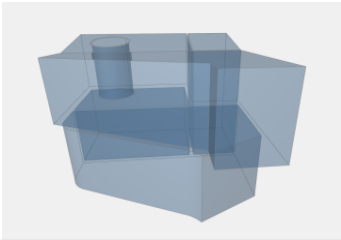
Site 02 / 2x3

Slab 01A / 2x3



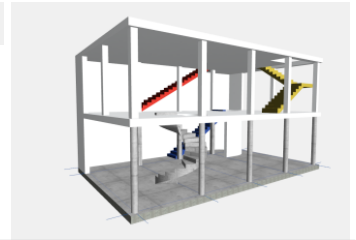
105 IfcSlab	company statement		Slab 01A / 2x3
010 Naming		■	
020 Placement			
020-2 Placement Relative		■	
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid		■	
030-6-2 Geometry Clipping		■	
050 CAD Layer		■	
200 Material			
200-2 Material Layer Set		■	
200-3 Material Layer Usage		■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

Space 01A / 2x3



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

StairSlab-01 / 2x3

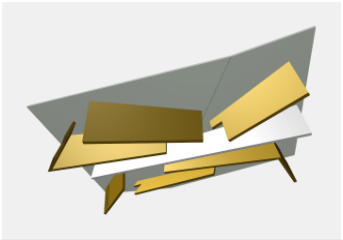


105 IfcSlab		company statement	StairSlab-01 / 2x3
001 GUIDs	■		
002 History	■		
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
040 Presentation			
040-1 Geometric Presentation	■		
040-2 Material Presentation	■		
070 Voiding			
070-3 Voiding Geometry SweptSolid	■		
106 IfcStair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

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

StairSlab-01 / 2x3

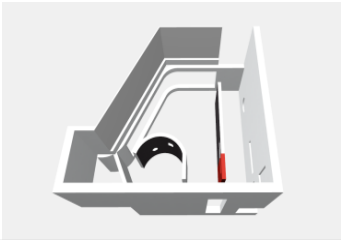
Wall 02 / 2x3



102 IfcWall	company statement		Wall 02 / 2x3
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-2 Geometry Axis	■	Not shown in the software	
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	Wall 02 / 2x3
_G4 Remarks	■		

WallStandardCase 04A / 2x3



101 IfcWallStandardCase	company statement		WallStandardCase 04A / 2x3
010 Naming	■		
030 Geometry			
030-2 Geometry Axis	■	Not shown in the software	
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	■	Software reads all kind of software	
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	■	Irrelevant data in ARCHline.XP IFC import	
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	■