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Introduction

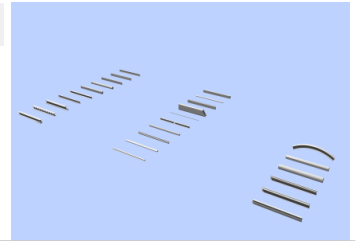
The main purpose of import is to allow import of bearing parts of buildings, such as beams columns, walls, slabs and import of reinforcement. However Scia Engineer supports import of many different representations the best one is SweptSolid because then all entities are imported as native Scia Engineer elements. In case of Brep or CSG representation a reference model is created and all correct 3D volumes can be converted with a member recognizer into native elements. An object which is an open shell is not possible to convert into any elements.

Testlist


Name test	concepts total	manually checked		
				
Beam_02 / 2x3	12	7	2	1
CharsetTest-01A / 2x3	2	2		
Column 01 / 2x3	11	7	2	2
CoveringFurnishing-01 / 2x3	57	17	5	34
CurtainWall-01 / 2x3	29	9	1	18
Door 01 / 2x3	22	7	2	13
Grid 01 / 2x3				11
Member_01S / 2x3	10	4	2	3
Pile 01 / 2x3	19	8	2	7
PlateFastener-01 / 2x3	67	25	4	35
RampRailing-01 / 2x3	28	11	4	11
RandomArch-X2 AC16 / 2x3	12	5	3	4
RandomMEP-X2 BENCH / 2x3	21	4		7
RandomStruc-X2 TS / 2x3	9	5	2	2
RandomStruc-X3 RST / 2x3	8	5	2	1
RandomStruc-X5 RST / 2x3	26	13	6	7
Reinforcement-01 / 2x3	94	38	6	36
Roof 01 / 2x3	15	5	1	5
Site 02 / 2x3				13
Slab 02A / 2x3	24	8	2	10
Space 01A / 2x3				12
StairSlab-01 / 2x3	19	9	2	8
UnitTest-01S / 2x3	3	3		
Wall 02 / 2x3	14	8	1	4
WallStandardCase 03A / 2x3	9	6	1	1
Window 01 / 2x3	22	7	2	13

Concepts

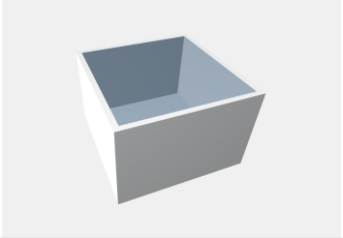
Beam_02 / 2x3



103 IfcBeam	<i>company statement</i>
010 Naming	■ Each element has to have a unique name in Scia Engineer. If in IFC file two or more entities have identical name, only the first one is imported with the name and the others are imported with the name + number.
030 Geometry <i>030-2 Geometry Axis</i> 030-6 Geometry Body 030-6-1 Geometry SweptSolid 030-6-2 Geometry Clipping 030-6-5 Geometry Explicit	■ Scia Engineer does not support import of axis geometry for 1D members. ■ ■ ■
050 CAD Layer	■
070 Voiding 070-1 Voiding Geometry Explicit 070-2 Voiding Geometry Mapped 070-3 Voiding Geometry SweptSolid	■ Explicit voids are imported correctly but internally stored as a resulting shape. ■ Mapped voids are imported correctly but internally stored as a resulting shape. ■
120 Spatial Containment	■

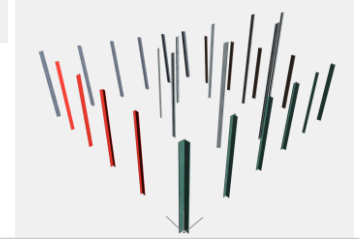
200 Material 200-1 Single Material	 Import of general material is not supported. Scia Engineer supports import only material with the proper material code name.
General	<i>company statement</i>
_G4 Remarks	

CharsetTest-01A / 2x3



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

Column 01 / 2x3

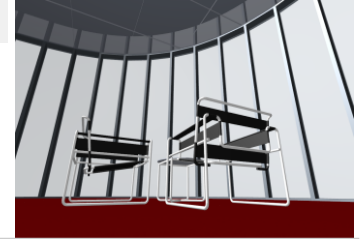


Column 01 / 2x3

104 IfcColumn	<i>company statement</i>
010 Naming	■ Each element has to have a unique name in Scia Engineer. If in IFC file two or more entities have identical name, only the first one is imported with the name and the others are imported with the name + number.
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	■ Import of Geometric Presentation is not supported. Scia Engineer does not support individual colours for each separate column. ■ Material Presentation is not supported because no material presentation can be defined in Scia Engineer.
050 CAD Layer	■
120 Spatial Containment	■
200 Material 200-1 Single Material	■ Import of general material is not supported. Scia Engineer supports import only material with the proper material code name.











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









CoveringFurnishing-01 / 2x3



















CoveringFurnishing-01 / 2x3

210 IfcFlowTerminal	<i>company statement</i>	
001 GUIDs	■	No flow terminal can be defined in Scia Engineer therefore it is imported as another native element.
010 Naming	■	No flow terminal can be defined in Scia Engineer therefore it is imported as another native element. Each element has to have a unique name in Scia Engineer. If in IFC file two or more entities have identical name, only the first one is imported with the name and the others are imported with the name + number.
020 Placement 020-2 Placement Relative	■	No flow terminal can be defined in Scia Engineer therefore it is imported as another native element.
030 Geometry 030-6 Geometry Body 030-6-5 Geometry Explicit 030-6-9 Geometry Mapped	■	No flow terminal can be defined in Scia Engineer therefore it is imported as another native element.
040 Presentation 040-1 Geometric Presentation	■	No flow terminal can be defined in Scia Engineer therefore it is imported as another native element. Import of Geometric Presentation is not supported. Scia Engineer does not support individual colours for each separate element.
050 CAD Layer	■	No flow terminal can be defined in Scia Engineer therefore it is imported as another native element.

120 Spatial Containment	 No flow terminal can be defined in Scia Engineer therefore it is imported as another native element.
210 Property Set 210-1 Property Set IFC Common 210-6 Property Set IFC any 210-9 Property Set User Defined	 No flow terminal can be defined in Scia Engineer therefore it is imported as another native element.  No flow terminal can be defined in Scia Engineer therefore it is imported as another native element.  No flow terminal can be defined in Scia Engineer therefore it is imported as another native element.
300 Type 300-1 Type Geometry 300-2 Type Naming 300-3 Type Material 300-5 Type Property Set	 No flow terminal can be defined in Scia Engineer therefore it is imported as another native element.  No flow terminal can be defined in Scia Engineer therefore it is imported as another native element.  No flow terminal can be defined in Scia Engineer therefore it is imported as another native element.  No flow terminal can be defined in Scia Engineer therefore it is imported as another native element.
303 IfcCovering	<i>company statement</i>
010 Naming	 No covering can be defined in Scia Engineer therefore it is imported as another native element. Each element has to have a unique name in Scia Engineer. If in IFC file two or more entities have identical name, only the first one is imported with the name and the others are imported with the name + number.
020 Placement 020-2 Placement Relative	 No covering can be defined in Scia Engineer therefore it is imported as another native element.

<p>030 Geometry</p> <p> 030-6 Geometry Body</p> <p> 030-6-1 Geometry SweptSolid</p> <p> 030-6-9 Geometry Mapped</p>	<p> No covering can be defined in Scia Engineer therefore it is imported as another native element.</p> <p> Mapped geometry will be imported as separate shapes</p>
<p>040 Presentation</p> <p> 040-1 Geometric Presentation</p>	<p> No covering can be defined in Scia Engineer therefore it is imported as another native element. Import of Geometric Presentation is not supported. Scia Engineer does not support individual colours for each separate element.</p>
<p>050 CAD Layer</p>	<p> No covering can be defined in Scia Engineer therefore it is imported as another native element.</p>
<p>070 Voiding</p>	
<p>120 Spatial Containment</p>	<p> No covering can be defined in Scia Engineer therefore it is imported as another native element.</p>
<p>200 Material</p> <p> 200-1 Single Material</p> <p> 200-3 Material Layer Set</p>	<p> No covering can be defined in Scia Engineer therefore it is imported as another native element. Import of general material is not supported. Scia Engineer supports import only material with the proper material code name.</p> <p> No covering can be defined in Scia Engineer therefore it is imported as another native element. Scia Engineer supports only 2D members with single material. It is not possible to define layered walls or slabs.</p>
<p>210 Property Set</p> <p> 210-1 Property Set IFC Common</p>	<p> No covering can be defined in Scia Engineer therefore it is imported as another native element.</p>

<p>300 Type</p> <p>300-1 Type Geometry</p> <p>300-2 Type Naming</p> <p>300-3 Type Material</p> <p>300-5 Type Property Set</p>	<p> No covering can be defined in Scia Engineer therefore it is imported as another native element.</p> <p> No covering can be defined in Scia Engineer therefore it is imported as another native element.</p> <p> No covering can be defined in Scia Engineer therefore it is imported as another native element.</p> <p> No covering can be defined in Scia Engineer therefore it is imported as another native element.</p>
<p>304 IfcFurnishingElement</p>	<p><i>company statement</i></p>
<p>001 GUIDs</p>	<p> No furnishing element can be defined in Scia Engineer therefore it is imported as another native element.</p>
<p>010 Naming</p>	<p> No furnishing element can be defined in Scia Engineer therefore it is imported as another native element. Each element has to have a unique name in Scia Engineer. If in IFC file two or more entities have identical name, only the first one is imported with the name and the others are imported with the name + number.</p>
<p>020 Placement</p> <p>020-2 Placement Relative</p>	<p> No furnishing element can be defined in Scia Engineer therefore it is imported as another native element.</p>
<p>030 Geometry</p> <p>030-6 Geometry Body</p> <p>030-6-5 Geometry Explicit</p> <p>030-6-9 Geometry Mapped</p>	<p> No furnishing element can be defined in Scia Engineer therefore it is imported as another native element.</p> <p> No furnishing element can be defined in Scia Engineer therefore it is imported as another native element.</p>

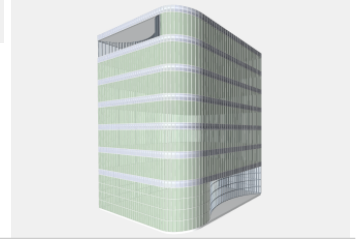
<p>040 Presentation</p> <p>040-1 Geometric Presentation</p>	<p> No furnishing element can be defined in Scia Engineer therefore it is imported as another native element. Import of Geometric Presentation is not supported. Scia Engineer does not support individual colours for each separate element.</p>
<p>050 CAD Layer</p>	<p> No furnishing element can be defined in Scia Engineer therefore it is imported as another native element.</p>
<p>120 Spatial Containment</p>	<p> No furnishing element can be defined in Scia Engineer therefore it is imported as another native element.</p>
<p>200 Material</p> <p>200-1 Single Material</p> <p>200-5 Material List</p>	<p> No furnishing element can be defined in Scia Engineer therefore it is imported as another native element. Import of general material is not supported. Scia Engineer supports import only material with the proper material code name.</p> <p> No furnishing element can be defined in Scia Engineer therefore it is imported as another native element.</p>
<p>210 Property Set</p> <p>210-6 Property Set IFC any</p> <p>210-9 Property Set User Defined</p>	<p> No furnishing element can be defined in Scia Engineer therefore it is imported as another native element.</p> <p> No furnishing element can be defined in Scia Engineer therefore it is imported as another native element.</p>

300 Type		
300-1 Type Geometry	■	No furnishing element can be defined in Scia Engineer therefore it is imported as another native element.
300-2 Type Naming	■	No furnishing element can be defined in Scia Engineer therefore it is imported as another native element.
300-3 Type Material	■	No furnishing element can be defined in Scia Engineer therefore it is imported as another native element.
300-5 Type Property Set	■	No furnishing element can be defined in Scia Engineer therefore it is imported as another native element.
505 IfcSpace		<i>company statement</i> <i>CoveringFurnishing-01 / 2x3</i>
030 Geometry		
030-3 Geometry FootPrint	■	No space can be defined in Scia Engineer.
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	No space can be defined in Scia Engineer.
120 Spatial Containment	■	No space can be defined in Scia Engineer.
130 Grouping		
130-3 Grouping to Zones	■	No space can be defined in Scia Engineer.
230 Classification	■	No space can be defined in Scia Engineer.
508 IfcZone		<i>company statement</i> <i>CoveringFurnishing-01 / 2x3</i>
001 GUIDs	■	No zone can be defined in Scia Engineer.
002 History	■	No zone can be defined in Scia Engineer.
010 Naming	■	No zone can be defined in Scia Engineer.









130 Grouping		
130-5 Is Group		No zone can be defined in Scia Engineer.
210 Property Set		
210-1 Property Set IFC Common		No zone can be defined in Scia Engineer.
210-9 Property Set User Defined		No zone can be defined in Scia Engineer.
General	<i>company statement</i>	
_G4 Remarks		













CoveringFurnishing-01 / 2x3

CurtainWall-01 / 2x3



109 IfcCurtainWall	<i>company statement</i>	<i>CurtainWall-01 / 2x3</i>
001 GUIDs	■ No curtain wall can be defined in Scia Engineer therefore it is imported as other native elements.	
002 History	■ No curtain wall can be defined in Scia Engineer therefore it is imported as other native elements. Scia Engineer does not support import of history because history of element cannot be defined.	
010 Naming	■ No curtain wall can be defined in Scia Engineer therefore it is imported as other native elements. Each element has to have a unique name in Scia Engineer. If in IFC file two or more entities have identical name, only the first one is imported with the name and the others are imported with the name + number.	
020 Placement 020-1 Placement Relative	■ No curtain wall can be defined in Scia Engineer therefore it is imported as other native elements.	
030 Geometry 030-6 Geometry Body 030-6-5 Geometry Explicit 030-9 Geometry By Components	■ No curtain wall can be defined in Scia Engineer therefore it is imported as other native elements ("General Volume"). ■ No curtain wall can be defined in Scia Engineer therefore it is imported as other native elements.	

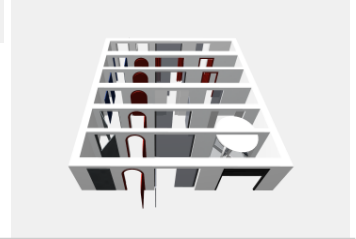
<p>040 Presentation</p> <p>040-1 Geometric Presentation</p>	<p> No curtain wall can be defined in Scia Engineer therefore it is imported as other native elements. Import of Geometric Presentation is not supported. Scia Engineer does not support individual colours for each separate element.</p>
<p>050 CAD Layer</p>	<p> No curtain wall can be defined in Scia Engineer therefore it is imported as other native elements.</p>
<p>100 Element Aggregation</p> <p>100-2 Element Decomposition</p>	<p> No curtain wall can be defined in Scia Engineer therefore it is imported as other native elements. Scia Engineer does not support special decomposition for any element.</p>
<p>120 Spatial Containment</p>	<p> No curtain wall can be defined in Scia Engineer therefore it is imported as other native elements.</p>
<p>200 Material</p> <p>200-1 Single Material</p> <p>200-5 Material List</p>	<p> No curtain wall can be defined in Scia Engineer therefore it is imported as other native elements. Import of general material is not supported. Scia Engineer supports import only material with the proper material code name.</p> <p> No curtain wall can be defined in Scia Engineer therefore it is imported as other native elements.</p>
<p>210 Property Set</p> <p>210-1 Property Set IFC Common</p> <p>210-3 Property Set User Defined</p>	<p> No curtain wall can be defined in Scia Engineer therefore it is imported as other native elements.</p> <p> No curtain wall can be defined in Scia Engineer therefore it is imported as other native elements.</p>

300 Type		
300-1 Type Geometry	 No curtain wall can be defined in Scia Engineer therefore it is imported as other native elements.	
300-2 Type Naming	 No curtain wall can be defined in Scia Engineer therefore it is imported as other native elements.	
300-3 Type Material	 No curtain wall can be defined in Scia Engineer therefore it is imported as other native elements.	
300-5 Type Property Set	 No curtain wall can be defined in Scia Engineer therefore it is imported as other native elements.	
501 IfcProject	<i>company statement</i>	<i>CurtainWall-01 / 2x3</i>
010 Naming	 Import of project properties is not supported.	
502 IfcSite	<i>company statement</i>	<i>CurtainWall-01 / 2x3</i>
010 Naming	 No site can be defined in Scia Engineer.	
060 Location		
060-1 Geographic Location	 No site can be defined in Scia Engineer.	
060-2 Address	 No site can be defined in Scia Engineer.	
503 IfcBuilding	<i>company statement</i>	<i>CurtainWall-01 / 2x3</i>
010 Naming	 No building name can be input in Scia Engineer.	
020 Placement		
020-2 Placement Relative	 No building name can be input in Scia Engineer.	
504 IfcBuildingStorey	<i>company statement</i>	<i>CurtainWall-01 / 2x3</i>
010 Naming		
020 Placement		
020-2 Placement Relative		










060 Location	
060-4 Storey Elevation	
210 Property Set	
210-1 Property Set IFC Common	 Scia Engineer does not support IFC Common Property Set for Building Storey.
General	<i>company statement</i>
_G4 Remarks	







CurtainWall-01 / 2x3

Door 01 / 2x3



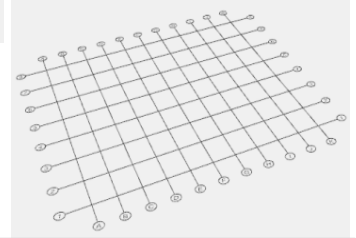
302 IfcDoor	<i>company statement</i>		<i>Door 01 / 2x3</i>
001 GUIDs	■	No door can be defined in Scia Engineer therefore it is imported as another native element.	
002 History	■	No door can be defined in Scia Engineer therefore it is imported as another native element.	
010 Naming	■	No door can be defined in Scia Engineer therefore it is imported as another native element.	
020 Placement 020-2 Placement Relative	■	No door can be defined in Scia Engineer therefore it is imported as another native element.	
030 Geometry 030-5 Geometry Profile 030-6 Geometry Body 030-6-5 Geometry Explicit 030-6-9 Geometry Mapped	■	No door can be defined in Scia Engineer therefore it is imported as another native element.	
	■	No door can be defined in Scia Engineer therefore it is imported as another native element.	
	■	No door can be defined in Scia Engineer therefore it is imported as another native element.	

<p>040 Presentation</p> <p>040-1 Geometric Presentation</p>	<p> No door can be defined in Scia Engineer therefore it is imported as another native element. Import of Geometric Presentation is not supported. Scia Engineer does not support individual colours for each separate element.</p>
<p>050 CAD Layer</p>	<p> No door can be defined in Scia Engineer therefore it is imported as another native element.</p>
<p>080 Filling</p> <p>080-2 Is Filling</p>	<p> No door can be defined in Scia Engineer therefore it is imported as another native element.</p>
<p>120 Spatial Containment</p>	<p> No door can be defined in Scia Engineer therefore it is imported as another native element.</p>
<p>200 Material</p> <p>200-1 Single Material</p> <p>200-5 Material List</p>	<p> No door can be defined in Scia Engineer therefore it is imported as another native element. Import of general material is not supported. Scia Engineer supports import only material with the proper material code name.</p> <p> No door can be defined in Scia Engineer therefore it is imported as another native element.</p>
<p>210 Property Set</p> <p>210-1 Property Set IFC Common</p> <p>210-2 Property Set IFC any</p> <p>210-3 Property Set User Defined</p>	<p> No door can be defined in Scia Engineer therefore it is imported as another native element.</p> <p> No door can be defined in Scia Engineer therefore it is imported as another native element.</p> <p> No door can be defined in Scia Engineer therefore it is imported as another native element.</p>

<p>300 Type</p> <p>300-1 Type Geometry</p> <p>300-2 Type Naming</p> <p>300-3 Type Material</p> <p>300-5 Type Property Set</p> <p>300-6 Type Predefined Properties</p> <p>300-6-1 Type Predefined Properties Door</p>	<p> No door can be defined in Scia Engineer therefore it is imported as another native element.</p> <p> No door can be defined in Scia Engineer therefore it is imported as another native element.</p> <p> No door can be defined in Scia Engineer therefore it is imported as another native element.</p> <p> No door can be defined in Scia Engineer therefore it is imported as another native element.</p> <p> No door can be defined in Scia Engineer therefore it is imported as another native element.</p>
<p>General</p>	<p><i>company statement</i></p>
<p>_G4 Remarks</p>	<p></p>

Door 01 / 2x3

Grid 01 / 2x3



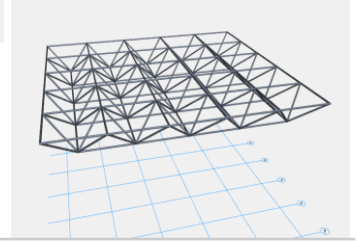
509 IfcGrid	<i>company statement</i>		<i>Grid 01 / 2x3</i>
001 GUIDs	■	Import of grid is not supported in Scia Engineer.	
002 History	■	Import of grid is not supported in Scia Engineer.	
010 Naming	■	Import of grid is not supported in Scia Engineer.	
020 Placement 020-2 Placement Relative	■	Import of grid is not supported in Scia Engineer.	
030 Geometry 030-3 Geometry FootPrint	■	Import of grid is not supported in Scia Engineer.	
040 Presentation 040-1 Geometric Presentation	■	Import of grid is not supported in Scia Engineer.	
050 CAD Layer	■	Import of grid is not supported in Scia Engineer.	
120 Spatial Containment	■	Import of grid is not supported in Scia Engineer.	
210 Property Set 210-3 Property Set User Defined	■	Import of grid is not supported in Scia Engineer.	
270 Grid Usage 270-1 Grid Axes	■	Import of grid is not supported in Scia Engineer.	
General	<i>company statement</i>		<i>Grid 01 / 2x3</i>

_G4 Remarks





Import of grid is not supported in Scia Engineer.

Member_01S / 2x3

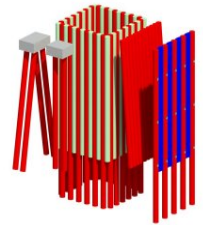


Member_01S / 2x3









401 IfcMember	<i>company statement</i>
010 Naming	■ Each element has to have a unique name in Scia Engineer. If in IFC file two or more entities have identical name, only the first one is imported with the name and the others are imported with the name + number.
020 Placement 020-2 Placement Relative	■
030 Geometry 030-6 Geometry Body 030-6-1 Geometry SweptSolid 030-6-2 Geometry Clipping	■ ■ Clipping is imported correctly but internally stored as a resulting shape.
110 Connectivity 110-1 Connectivity Basic <i>110-3 Connectivity Realization</i> 110-3-1 Connectivity Realized	■ Scia Engineer does not support general information for connectivity between members. ■ Scia Engineer does not support general information for connectivity between members.
120 Spatial Containment	■
200 Material 200-1 Single Material	■ Import of general material is not supported. Scia Engineer supports import only material with the proper material code name.





300 Type		
300-1 Type Geometry	 Scia Engineer does not support geometry types for objects.	
General	<i>company statement</i>	Member_01S / 2x3
_G4 Remarks		

Pile 01 / 2x3

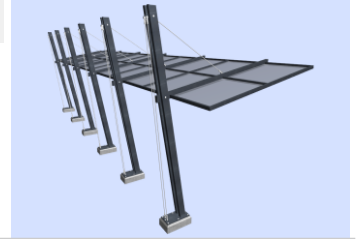


404 IfcPile	<i>company statement</i>		<i>Pile 01 / 2x3</i>
001 GUIDs	■	No pile element can be defined in Scia Engineer therefore it is imported as another native element.	
002 History	■	No pile element can be defined in Scia Engineer therefore it is imported as another native element. Scia Engineer does not support import of history because history of element cannot be defined.	
010 Naming	■	No pile element can be defined in Scia Engineer therefore it is imported as another native element.	
020 Placement 020-1 Placement Relative	■	No pile element can be defined in Scia Engineer therefore it is imported as another native element.	
030 Geometry 030-6 Geometry Body 030-6-1 Geometry SweptSolid 030-6-2 Geometry Clipping 030-6-9 Geometry Mapped	■	No pile element can be defined in Scia Engineer therefore it is imported as another native element.	
	■	No pile element can be defined in Scia Engineer therefore it is imported as another native element.	
	■		














<p>040 Presentation</p> <p>040-1 Geometric Presentation</p> <p>040-2 Material Presentation</p>	<p> No pile element can be defined in Scia Engineer therefore it is imported as another native element. Import of Geometric Presentation is not supported. Scia Engineer does not support individual colours for each separate elements.</p> <p> No pile element can be defined in Scia Engineer therefore it is imported as another native element. Material Presentation is not supported because no material presentation can be defined in Scia Engineer.</p>
<p>050 CAD Layer</p>	<p> No pile element can be defined in Scia Engineer therefore it is imported as another native element.</p>
<p>070 Voiding</p> <p>070-3 Voiding Geometry SweptSolid</p>	<p> No pile element can be defined in Scia Engineer therefore it is imported as another native element ("General Volume".)</p>
<p>100 Element Aggregation</p> <p>100-2 Element Decomposition</p>	<p> No pile element can be defined in Scia Engineer therefore it is imported as another native element. Scia Engineer does not support special decomposition for any element ("General Volume").</p>
<p>120 Spatial Containment</p>	<p> No pile element can be defined in Scia Engineer therefore it is imported as another native element.</p>
<p>200 Material</p> <p>200-1 Single Material</p>	<p> No pile element can be defined in Scia Engineer therefore it is imported as another native element. Import of general material is not supported. Scia Engineer supports import only material with the proper material code name.</p>
<p>210 Property Set</p> <p>210-3 Property Set User Defined</p>	<p> No pile element can be defined in Scia Engineer therefore it is imported as another native element. Scia Engineer does not support import of User Defined Property Set.</p>













<p>300 Type</p> <p>300-1 Type Geometry</p> <p>300-3 Type Material</p> <p>300-5 Type Property Set</p>	<p> No pile element can be defined in Scia Engineer therefore it is imported as another native element.</p> <p> No pile element can be defined in Scia Engineer therefore it is imported as another native element.</p> <p> No pile element can be defined in Scia Engineer therefore it is imported as another native element.</p>	
<p>General</p>	<p><i>company statement</i></p>	<p>Pile 01 / 2x3</p>
<p>_G4 Remarks</p>	<p></p>	













PlateFastener-01 / 2x3























103 IfcBeam	<i>company statement</i>		<i>PlateFastener-01 / 2x3</i>
001 GUIDs	■		
002 History	■	Scia Engineer does not support import of history because history of element cannot be defined.	
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
030-6-9 Geometry Mapped	■	Mapped geometry is imported correctly but internally stored as a single resulting shape.	
104 IfcColumn	<i>company statement</i>		<i>PlateFastener-01 / 2x3</i>
001 GUIDs	■		
002 History	■	Scia Engineer does not support import of history because history of element cannot be defined.	
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
030-6-9 Geometry Mapped	■		
100 Element Aggregation			
100-2 Element Decomposition	■	Scia Engineer does not support special decomposition for any element.	
210 Property Set			
210-3 Property Set User Defined	■	Scia Engineer does not support import of User Defined Property Set.	

300 Type		
300-1 Type Geometry		Scia Engineer does not support geometry types for objects.
300-2 Type Naming		Scia Engineer does not support Type Naming because no type naming can be defined.
300-3 Type Material		Scia Engineer does not support Type Material because no type material can be defined.
300-5 Type Property Set		Scia Engineer does not support Type Property Set because no type of properties can be defined.
401 IfcMember		<i>company statement</i> <i>PlateFastener-01 / 2x3</i>
001 GUIDs		
002 History		Scia Engineer does not support import of history because history of element cannot be defined.
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		Scia Engineer does not support import of history because history of element cannot be defined.
050 CAD Layer		
210 Property Set		
210-1 Property Set IFC Common		
210-3 Property Set User Defined		Scia Engineer does not support import of User Defined Property Set.

300 Type		
300-2 Type Naming		Scia Engineer does not support Type Naming because no type naming can be defined.
300-3 Type Material		Scia Engineer does not support Type Material because no type material can be defined.
300-5 Type Property Set		Scia Engineer does not support Type Property Set because no type of properties can be defined.
402 IfcPlate		<i>company statement</i> <i>PlateFastener-01 / 2x3</i>
001 GUIDs		
002 History		Scia Engineer does not support import of history because history of element cannot be defined.
010 Naming		Each element has to have a unique name in Scia Engineer. If in IFC file two or more entities have identical name, only the first one is imported with the name and the others are imported with the name + number.
020 Placement		
020-2 Placement Relative		
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid		
030-6-2 Geometry Clipping		Clipping is imported correctly but internally stored as a resulting shape.
030-6-5 Geometry Explicit		
040 Presentation		
040-1 Geometric Presentation		Import of Geometric Presentation is not supported. Scia Engineer does not support individual colours for each separate plate.
050 CAD Layer		

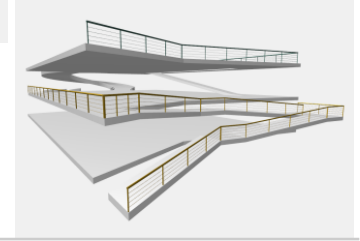
070 Voiding 070-3 Voiding Geometry SweptSolid	 Voiding Geometry SweptSolid is generally supported by Scia Engineer.
120 Spatial Containment	
200 Material 200-2 Material Layer Set	 Scia Engineer supports only 2D members with single material. It is not possible to define layered plate.
210 Property Set 210-1 Property Set IFC Common	 Scia Engineer does not support property sets for plates because it cannot be input.
210-3 Property Set User Defined	 Scia Engineer does not support import of User Defined Property Set.
300 Type 300-1 Type Geometry	 Scia Engineer does not support geometry types for objects.
300-2 Type Naming	 Scia Engineer does not support Type Naming because no type naming can be defined.
300-3 Type Material	 Scia Engineer does not support Type Material because no type material can be defined.
300-5 Type Property Set	 Scia Engineer does not support Type Property Set because no type of properties can be defined.
403 IfcFooting	<i>company statement</i> <i>PlateFastener-01 / 2x3</i>
030 Geometry 030-6 Geometry Body 030-6-1 Geometry SweptSolid	 Import of fastener is not supported.
030-6-2 Geometry Clipping	 Import of fastener is not supported.
405 IfcFastener	<i>company statement</i> <i>PlateFastener-01 / 2x3</i>
010 Naming	 Import of fastener is not supported.

020 Placement 020-2 Placement Relative	 Import of fastener is not supported.
030 Geometry 030-2 Geometry Axis	 Import of fastener is not supported.
406 IfcMechanicalFastener	<i>company statement</i> <i>PlateFastener-01 / 2x3</i>
001 GUIDs	
002 History	 Scia Engineer does not support import of history because history of element cannot be defined.
010 Naming	 Each element has to have a unique name in Scia Engineer. If in IFC file two or more entities have identical name, only the first one is imported with the name and the others are imported with the name + number.
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	 Import of Geometric Presentation is not supported. Scia Engineer does not support individual colours for each separate element.
050 CAD Layer	
120 Spatial Containment	










<p>200 Material</p> <p>200-1 Single Material</p>	<p> Import of general material is not supported. Scia Engineer supports import only material with the proper material code name.</p>
<p>210 Property Set</p> <p>210-6 Property Set IFC any</p> <p>210-9 Property Set User Defined</p>	<p> Scia Engineer does not support import of IFC Any Property Set.</p> <p> Scia Engineer does not support import of User Defined Property Set.</p>
<p>300 Type</p> <p>300-1 Type Geometry</p> <p>300-2 Type Naming</p> <p>300-3 Type Material</p> <p>300-5 Type Property Set</p>	<p> Scia Engineer does not support geometry types for objects.</p> <p> Scia Engineer does not support Type Naming because no type naming can be defined.</p> <p> Scia Engineer does not support Type Material because no type material can be defined.</p> <p> Scia Engineer does not support Type Property Set because no type of properties can be defined.</p>
<p>General</p>	<p><i>company statement</i></p>
<p>_G4 Remarks</p>	<p></p>

PlateFastener-01 / 2x3









RampRailing-01 / 2x3








107 IfcRamp	<i>company statement</i>		<i>RampRailing-01 / 2x3</i>
001 GUIDs	■	No ramp can be defined in Scia Engineer therefore it is imported as another native element.	
002 History	■	No ramp can be defined in Scia Engineer therefore it is imported as another native element. Scia Engineer does not support import of history because history of element cannot be defined.	
010 Naming	■	No ramp can be defined in Scia Engineer therefore it is imported as another native element.	
020 Placement 020-1 Placement Relative	■	No ramp can be defined in Scia Engineer therefore it is imported as another native element.	
030 Geometry 030-6 Geometry Body 030-6-5 Geometry Explicit 030-9 Geometry By Components	■	No ramp can be defined in Scia Engineer therefore it is imported as another native element.	











<p>040 Presentation</p> <p>040-1 Geometric Presentation</p>	<p> No ramp can be defined in Scia Engineer therefore it is imported as another native element. Import of Geometric Presentation is not supported. Scia Engineer does not support individual colours for each separate elements.</p>
<p>050 CAD Layer</p>	<p> No ramp can be defined in Scia Engineer therefore it is imported as another native element.</p>
<p>100 Element Aggregation</p> <p>100-2 Element Decomposition</p>	<p> No ramp can be defined in Scia Engineer therefore it is imported as another native element. Scia Engineer does not support special decomposition for any element.</p>
<p>120 Spatial Containment</p>	<p> No ramp can be defined in Scia Engineer therefore it is imported as another native element.</p>
<p>200 Material</p> <p>200-1 Single Material</p>	<p> No ramp can be defined in Scia Engineer therefore it is imported as another native element. Import of general material is not supported. Scia Engineer supports import only material with the proper material code name.</p>
<p>210 Property Set</p> <p>210-1 Property Set IFC Common</p> <p>210-3 Property Set User Defined</p>	<p> No ramp can be defined in Scia Engineer therefore it is imported as another native element.</p> <p> No ramp can be defined in Scia Engineer therefore it is imported as another native element. Scia Engineer does not support import of User Defined Property Set.</p>
<p>108 IfcRailing</p>	<p style="text-align: center;"><i>company statement</i></p> <p style="text-align: right;"><i>RampRailing-01 / 2x3</i></p>
<p>001 GUIDs</p>	<p> No railing can be defined in Scia Engineer therefore it is imported as another native element.</p>
<p>002 History</p>	<p> No railing can be defined in Scia Engineer therefore it is imported as another</p>


native element. Scia Engineer does not support import of history because history of element cannot be defined.

010 Naming	 No railing can be defined in Scia Engineer therefore it is imported as another native element.
020 Placement 020-2 Placement Relative	 No railing can be defined in Scia Engineer therefore it is imported as another native element.
030 Geometry 030-6 Geometry Body 030-6-1 Geometry SweptSolid 030-6-5 Geometry Explicit 030-6-9 Geometry Mapped	 No railing can be defined in Scia Engineer therefore it is imported as another native element ("General Volume").  No railing can be defined in Scia Engineer therefore it is imported as another native element.  No railing can be defined in Scia Engineer therefore it is imported as another native element ("General Volume").
040 Presentation 040-1 Geometric Presentation	 No railing can be defined in Scia Engineer therefore it is imported as another native element. Import of Geometric Presentation is not supported. Scia Engineer does not support individual colours for each separate elements.
050 CAD Layer	 No railing can be defined in Scia Engineer therefore it is imported as another native element.
120 Spatial Containment	 No railing can be defined in Scia Engineer therefore it is imported as another native element.






<p>200 Material</p> <p>200-1 Single Material</p> <p>200-5 Material List</p>	<p> No railing can be defined in Scia Engineer therefore it is imported as another native element. Import of general material is not supported. Scia Engineer supports import only material with the proper material code name.</p> <p> No railing can be defined in Scia Engineer therefore it is imported as another native element.</p>
<p>210 Property Set</p> <p>210-1 Property Set IFC Common</p> <p>210-3 Property Set User Defined</p>	<p> No railing can be defined in Scia Engineer therefore it is imported as another native element.</p> <p> No railing can be defined in Scia Engineer therefore it is imported as another native element. Scia Engineer does not support import of User Defined Property Set.</p>
<p>General</p>	<p><i>company statement</i></p> <p style="text-align: right;"><i>RampRailing-01 / 2x3</i></p>
<p>_G4 Remarks</p>	<p> If the solid is not properly closed, Scia Engineer is trying to close it, which allows for further work with that element. However, the result of this operation cannot be predicted, even though the algorithm gives in most cases satisfactory result. In the RampRailing-01_RAC.ifc test case the geometry of the upper railing is so complex that it is not quite clear how to correct the open shell. On the other hand, the railing is not a native element in Scia Engineer and it is imported only to have the comprehensive image of the model.</p>

RandomArch-X2 AC16 / 2x3

101 IfcWallStandardCase	<i>company statement</i>		<i>RandomArch-X2 AC16 / 2x3</i>
001 GUIDs			
002 History		Scia Engineer does not support import of history because history of element cannot be defined.	
010 Naming		Each element has to have a unique name in Scia Engineer. If in IFC file two or more entities have identical name, only the first one is imported with the name and the others are imported with the name + number.	
030 Geometry			
030-2 Geometry Axis		Import of Geometry Axis is not supported. No wall axis entity exists in Scia Engineer.	
030-6 Geometry Body			
030-6-1 Geometry SweptSolid			
210 Property Set			
210-2 Property Set IFC any		Scia Engineer does not support import of IFC Any Property Set.	
105 IfcSlab	<i>company statement</i>		<i>RandomArch-X2 AC16 / 2x3</i>
001 GUIDs			
002 History		Scia Engineer does not support import of history because history of element cannot be defined.	
010 Naming			
050 CAD Layer			








200 Material 200-1 Single Material	 Import of general material is not supported. Scia Engineer supports import only material with the proper material code name.
General	<i>company statement</i> <i>RandomArch-X2 AC16 / 2x3</i>
_G4 Remarks	

RandomMEP-X2 BENCH / 2x3








206 IfcFlowFitting	<i>company statement</i>	<i>RandomMEP-X2 BENCH / 2x3</i>
030 Geometry 030-6 Geometry Body 030-6-9 Geometry Mapped	 No flow fitting can be defined in Scia Engineer therefore it is imported as another native element.	
100 Element Aggregation 100-4 Port Assignment	 No flow fitting can be defined in Scia Engineer therefore it is imported as another native element.	
110 Connectivity 110-5 Connectivity by Ports	 No flow fitting can be defined in Scia Engineer therefore it is imported as another native element.	
207 IfcFlowMovingDevice	<i>company statement</i>	<i>RandomMEP-X2 BENCH / 2x3</i>
010 Naming	 No flow moving device can be defined in Scia Engineer therefore it is imported as another native element.	
020 Placement 020-2 Placement Relative	 No flow moving device can be defined in Scia Engineer therefore it is imported as another native element.	

<p>030 Geometry</p> <p> 030-6 Geometry Body</p> <p> 030-6-5 Geometry Explicit</p> <p> 030-6-9 Geometry Mapped</p>	<p>■ No flow moving device can be defined in Scia Engineer therefore it is imported as another native element.</p> <p>■ No flow moving device can be defined in Scia Engineer therefore it is imported as another native element.</p>
<p>040 Presentation</p> <p> 040-1 Geometric Presentation</p>	<p>■ No flow moving device can be defined in Scia Engineer therefore it is imported as another native element.</p>
<p>050 CAD Layer</p>	<p>■ No flow moving device can be defined in Scia Engineer therefore it is imported as another native element.</p>
<p>100 Element Aggregation</p> <p> 100-4 Port Assignment</p>	<p>■ No flow moving device can be defined in Scia Engineer therefore it is imported as another native element.</p>
<p>110 Connectivity</p> <p> 110-5 Connectivity by Ports</p>	<p>■ No flow moving device can be defined in Scia Engineer therefore it is imported as another native element.</p>
<p>120 Spatial Containment</p>	<p>■ No flow moving device can be defined in Scia Engineer therefore it is imported as another native element.</p>
<p>200 Material</p> <p> 200-1 Single Material</p>	<p>■ No flow moving device can be defined in Scia Engineer therefore it is imported as another native element.</p>
<p>210 Property Set</p> <p> 210-9 Property Set User Defined</p>	<p>■ No flow moving device can be defined in Scia Engineer therefore it is imported as another native element.</p>
<p>208 IfcFlowSegment</p>	<p><i>company statement</i></p>









RandomMEP-X2 BENCH / 2x3

<p>030 Geometry 030-6 Geometry Body 030-6-9 Geometry Mapped</p>	<p> No flow segment can be defined in Scia Engineer therefore it is imported as another native element.</p>
<p>100 Element Aggregation 100-4 Port Assignment</p>	<p> No flow segment can be defined in Scia Engineer therefore it is imported as another native element.</p>
<p>110 Connectivity 110-5 Connectivity by Ports</p>	<p> No flow segment can be defined in Scia Engineer therefore it is imported as another native element.</p>
<p>210 IfcFlowTerminal</p>	<p><i>company statement</i> <i>RandomMEP-X2 BENCH / 2x3</i></p>
<p>030 Geometry 030-6 Geometry Body 030-6-9 Geometry Mapped</p>	<p> No flow terminal can be defined in Scia Engineer therefore it is imported as another native element.</p>
<p>100 Element Aggregation 100-4 Port Assignment</p>	<p> No flow terminal can be defined in Scia Engineer therefore it is imported as another native element.</p>
<p>110 Connectivity 110-5 Connectivity by Ports</p>	<p> No flow terminal can be defined in Scia Engineer therefore it is imported as another native element.</p>
<p>General</p>	<p><i>company statement</i> <i>RandomMEP-X2 BENCH / 2x3</i></p>
<p>_G4 Remarks</p>	<p></p>











RandomStruc-X2 TS / 2x3

409 IfcReinforcingBar	<i>company statement</i>		<i>RandomStruc-X2 TS / 2x3</i>
010 Naming		Each element has to have a unique name in Scia Engineer. If in IFC file two or more entities have identical name, only the first one is imported with the name and the others are imported with the name + number.	
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		Import of Geometric Presentation is not supported. Scia Engineer does not support individual colours for each separate element.	
050 CAD Layer			
100 Element Aggregation 100-1 Element Composition		Scia Engineer does not support special decomposition for any element.	
200 Material 200-1 Single Material		Import of general material is not supported. Scia Engineer supports import only material with the proper material code name.	
General	<i>company statement</i>		<i>RandomStruc-X2 TS / 2x3</i>
_G4 Remarks			




RandomStruc-X3 RST / 2x3

410 IfcReinforcingMesh	<i>company statement</i>		<i>RandomStruc-X3 RST / 2x3</i>
001 GUIDs			
002 History		Scia Engineer does not support import of history because history of element cannot be defined.	
010 Naming		Each element has to have a unique name in Scia Engineer. If in IFC file two or more entities have identical name, only the first one is imported with the name and the others are imported with the name + number.	
020 Placement 020-2 Placement Relative			
050 CAD Layer			
120 Spatial Containment			
200 Material 200-1 Single Material		Import of general material is not supported. Scia Engineer supports import only material with the proper material code name.	
General	<i>company statement</i>		<i>RandomStruc-X3 RST / 2x3</i>
_G4 Remarks			

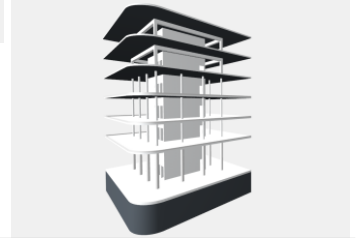
RandomStruc-X5 RST / 2x3

103 IfcBeam	<i>company statement</i>		<i>RandomStruc-X5 RST / 2x3</i>
001 GUIDs			
002 History		Scia Engineer does not support import of history because history of element cannot be defined.	
010 Naming		Each element has to have a unique name in Scia Engineer. If in IFC file two or more entities have identical name, only the first one is imported with the name and the others are imported with the name + number.	
020 Placement			
020-2 Placement Relative			
050 CAD Layer			
120 Spatial Containment			
200 Material			
200-1 Single Material		Import of general material is not supported. Scia Engineer supports import only material with the proper material code name	
104 IfcColumn	<i>company statement</i>		<i>RandomStruc-X5 RST / 2x3</i>
001 GUIDs			
002 History		Scia Engineer does not support import of history because history of element cannot be defined.	
010 Naming		Each element has to have a unique name in Scia Engineer. If in IFC file two or more entities have identical name, only the first one is imported with the name and the others are imported with the name + number.	













020 Placement		
020-2 Placement Relative		
050 CAD Layer		
120 Spatial Containment		
200 Material		
200-1 Single Material		Import of general material is not supported. Scia Engineer supports import only material with the proper material code name
403 IfcFooting		<i>company statement</i> <i>RandomStruc-X5 RST / 2x3</i>
001 GUIDs		
002 History		Scia Engineer does not support import of history because history of element cannot be defined.
010 Naming		Each element has to have a unique name in Scia Engineer. If in IFC file two or more entities have identical name, only the first one is imported with the name and the others are imported with the name + number.
020 Placement		
020-1 Placement Relative		
050 CAD Layer		
120 Spatial Containment		
200 Material		
200-1 Single Material		Import of general material is not supported. Scia Engineer supports import only material with the proper material code name
408 IfcElementAssembly		<i>company statement</i> <i>RandomStruc-X5 RST / 2x3</i>
001 GUIDs		All elements from element assembly are always imported to Scia Engineer as separate elements.
002 History		All elements from element assembly are always imported to Scia Engineer as separate elements.

010 Naming	 All elements from element assembly are always imported to Scia Engineer as separate elements.
020 Placement 020-2 Placement Relative	 All elements from element assembly are always imported to Scia Engineer as separate elements.
General	<i>company statement</i> <i>RandomStruc-X5 RST / 2x3</i>
_G4 Remarks	

Reinforcement-01 / 2x3













101 IfcWallStandardCase	<i>company statement</i>		<i>Reinforcement-01 / 2x3</i>
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
120 Spatial Containment	■		
103 IfcBeam	<i>company statement</i>		<i>Reinforcement-01 / 2x3</i>
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■	Import of RevolvedAreaSolid is not supported.	
120 Spatial Containment	■		
104 IfcColumn	<i>company statement</i>		<i>Reinforcement-01 / 2x3</i>
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> <i>Reinforcement-01 / 2x3</i>
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> <i>Reinforcement-01 / 2x3</i>
010 Naming		Each element has to have a unique name in Scia Engineer. If in IFC file two or more entities have identical name, only the first one is imported with the name and the others are imported with the name + number.
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid		
040 Presentation		
040-1 Geometric Presentation		Import of Geometric Presentation is not supported. Scia Engineer does not support individual colours for each separate element.
050 CAD Layer		
120 Spatial Containment		
210 Property Set		
210-3 Property Set User Defined		Scia Engineer does not support import of User Defined Property Set.
407 IfcDiscreteAccessory		<i>company statement</i> <i>Reinforcement-01 / 2x3</i>
001 GUIDs		Import of Discrete Accessory is generally supported by Scia Engineer.
010 Naming		Import of Discrete Accessory is generally supported by Scia Engineer.

020 Placement	
020-2 Placement Relative	■ Import of Discrete Accessory is generally supported by Scia Engineer.
030 Geometry	
030-6 Geometry Body	
030-6-5 Geometry Explicit	■ Import of Discrete Accessory is generally supported by Scia Engineer.
030-6-9 Geometry Mapped	■ Import of Discrete Accessory is generally supported by Scia Engineer.
040 Presentation	
040-1 Geometric Presentation	■ Import of Geometric Presentation is not supported.
050 CAD Layer	■ Import of Discrete Accessory is generally supported by Scia Engineer.
120 Spatial Containment	■ Import of Discrete Accessory is generally supported by Scia Engineer.
200 Material	
200-1 Single Material	■ Import of general material is not supported. Scia Engineer supports import only material with the proper material code name
210 Property Set	
210-9 Property Set User Defined	■ Scia Engineer does not support import of User Defined Property Set.
300 Type	
300-1 Type Geometry	■ Scia Engineer does not support geometry types for objects.
300-2 Type Naming	■ Scia Engineer does not support Type Naming because no type naming can be defined.
300-3 Type Material	■ Scia Engineer does not support Type Material because no type material can be defined.
300-5 Type Property Set	■ Scia Engineer does not support Type Property Set because no type of properties can be defined.
408 IfcElementAssembly	<i>company statement</i>
001 GUIDs	■ All elements from element assembly are always imported to Scia Engineer as separate elements.














Reinforcement-01 / 2x3













010 Naming	 All elements from element assembly are always imported to Scia Engineer as separate elements.
020 Placement 020-2 Placement Relative	 All elements from element assembly are always imported to Scia Engineer as separate elements.
030 Geometry 030-6 Geometry Body 030-9 Geometry By Components	 All elements from element assembly are always imported to Scia Engineer as separate elements.
040 Presentation 040-1 Geometric Presentation	 All elements from element assembly are always imported to Scia Engineer as separate elements.
050 CAD Layer	 All elements from element assembly are always imported to Scia Engineer as separate elements.
100 Element Aggregation 100-2 Element Decomposition	 All elements from element assembly are always imported to Scia Engineer as separate elements.
120 Spatial Containment	 All elements from element assembly are always imported to Scia Engineer as separate elements.
210 Property Set 210-9 Property Set User Defined	 All elements from element assembly are always imported to Scia Engineer as separate elements.
409 IfcReinforcingBar	<i>company statement</i>
001 GUIDs	
010 Naming	 Each element has to have a unique name in Scia Engineer. If in IFC file two or more entities have identical name, only the first one is imported with the name

Reinforcement-01 / 2x3















and the others are imported with the name + number.




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	■ Import of Geometric Presentation is not supported. Scia Engineer does not support individual colours for each separate element.
050 CAD Layer	■
120 Spatial Containment	■
200 Material	
200-1 Single Material	■ Import of general material is not supported. Scia Engineer supports import only material with the proper material code name.
210 Property Set	
210-9 Property Set User Defined	■ Scia Engineer does not support import of User Defined Property Set.

300 Type		
300-1 Type Geometry		Scia Engineer does not support geometry types for objects.
300-2 Type Naming		Scia Engineer does not support Type Naming because no type naming can be defined.
300-3 Type Material		Scia Engineer does not support Type Material because no type material can be defined.
300-5 Type Property Set		Scia Engineer does not support Type Property Set because no type of properties can be defined.
410 IfcReinforcingMesh		<i>company statement</i>
001 GUIDs		
010 Naming		Each element has to have a unique name in Scia Engineer. If in IFC file two or more entities have identical name, only the first one is imported with the name and the others are imported with the name + number.
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		Import of Geometric Presentation is not supported. Scia Engineer does not support individual colours for each separate element.
050 CAD Layer		
120 Spatial Containment		

200 Material		
200-1 Single Material		Import of general material is not supported. Scia Engineer supports import only material with the proper material code name.
210 Property Set		
210-9 Property Set User Defined		Scia Engineer does not support import of User Defined Property Set.
300 Type		
300-1 Type Geometry		Scia Engineer does not support geometry types for objects.
300-2 Type Naming		Scia Engineer does not support Type Naming because no type naming can be defined.
300-3 Type Material		Scia Engineer does not support Type Material because no type material can be defined.
300-5 Type Property Set		Scia Engineer does not support Type Property Set because no type of properties can be defined.
501 IfcProject		<i>company statement</i>
001 GUIDs		
002 History		Scia Engineer does not support import of history because history of element cannot be defined.
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		Import of project properties is not supported.

Reinforcement-01 / 2x3








150 Spatial Aggregation 150-2 Spatial Decomposition	 Import of project properties is not supported.
503 IfcBuilding	<i>company statement</i> <i>Reinforcement-01 / 2x3</i>
001 GUIDs	 No building name can be input in Scia Engineer.
002 History	 No building name can be input in Scia Engineer.
010 Naming	 No building name can be input in Scia Engineer.
020 Placement 020-1 Placement Absolute	 No building name can be input in Scia Engineer.
060 Location 060-2 Address	 No building name can be input in Scia Engineer.
150 Spatial Aggregation 150-1 Spatial Composition 150-2 Spatial Decomposition	 No building name can be input in Scia Engineer.  No building name can be input in Scia Engineer.
504 IfcBuildingStorey	<i>company statement</i> <i>Reinforcement-01 / 2x3</i>
001 GUIDs	
002 History	 Scia Engineer does not support import of history because history of element cannot be defined.
010 Naming	
020 Placement 020-2 Placement Relative	
060 Location 060-4 Storey Elevation	
120 Spatial Containment	

150 Spatial Aggregation		
150-1 Spatial Composition		Scia Engineer does not support special composition for building storey.
150-2 Spatial Decomposition		Scia Engineer does not support special decomposition for building storey.
General		<i>company statement</i> <i>Reinforcement-01 / 2x3</i>
_G4 Remarks		

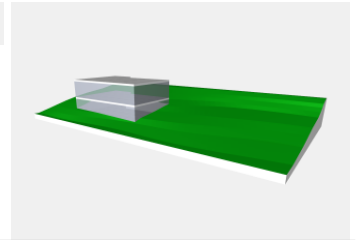
Roof 01 / 2x3



101 IfcWallStandardCase	<i>company statement</i>	<i>Roof 01 / 2x3</i>
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
030-6-2 Geometry Clipping	■	
105 IfcSlab	<i>company statement</i>	<i>Roof 01 / 2x3</i>
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■ SweptSolids are imported as native slabs.	
030-6-2 Geometry Clipping	■ Clippings are imported as native slabs with the resulting shape.	
030-6-9 Geometry Mapped	■ Mapped geometr is imported as native slabs with separate resulting shapes.	
070 Voiding		
070-3 Voiding Geometry SweptSolid	■	
080 Filling		
080-1 Has Filling		
080-1-2 Has Filling Window	■ Not supported because no window element exists in Scia Engineer.	
200 Material		
200-2 Material Layer Set	■ Scia Engineer supports only 2D members with single material. It is not possible to define layered walls or slabs.	
110 IfcRoof	<i>company statement</i>	<i>Roof 01 / 2x3</i>

<p>030 Geometry</p> <p>030-1 Geometry Box</p>	<p> No roof can be defined in Scia Engineer therefore it is imported as a slab. Scia Engineer does not support geometry box.</p>
<p>040 Presentation</p> <p>040-1 Geometric Presentation</p> <p>040-2 Material Presentation</p>	<p> No roof can be defined in Scia Engineer therefore it is imported as a slab. Import of Geometric Presentation is not supported. Scia Engineer does not support individual colours for each separate element.</p> <p> No roof can be defined in Scia Engineer therefore it is imported as a slab. Material Presentation is not supported because no material presentation can be defined in Scia Engineer.</p>
<p>100 Element Aggregation</p> <p>100-2 Element Decomposition</p>	<p> No roof can be defined in Scia Engineer therefore it is imported as a slab. Scia Engineer does not support special decomposition for any element.</p>
<p>120 Spatial Containment</p>	<p> No roof can be defined in Scia Engineer therefore it is imported as a slab.</p>
<p>200 Material</p> <p>200-1 Single Material</p>	<p> No roof can be defined in Scia Engineer therefore it is imported as a slab. Import of general material is not supported. Scia Engineer supports import only material with the proper material code name.</p>
<p>General</p>	<p><i>company statement</i></p>
<p>_G4 Remarks</p>	<p></p>

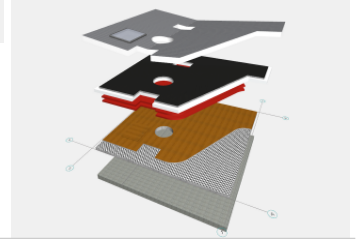
Site 02 / 2x3
















502 IfcSite	<i>company statement</i>		Site 02 / 2x3
010 Naming	■	No site can be defined in Scia Engineer.	
020 Placement 020-1 Placement Absolute	■	No site can be defined in Scia Engineer.	
030 Geometry 030-3 Geometry FootPrint 030-6 Geometry Body 030-6-5 Geometry Explicit	■	No site can be defined in Scia Engineer.	
150 Spatial Aggregation 150-1 Spatial Composition 150-2 Spatial Decomposition	■	No site can be defined in Scia Engineer.	
210 Property Set 210-9 Property Set User Defined	■	No site can be defined in Scia Engineer.	
503 IfcBuilding	<i>company statement</i>		Site 02 / 2x3
010 Naming	■	No building can be input in Scia Engineer.	
020 Placement 020-2 Placement Relative	■	No building can be input in Scia Engineer.	

150 Spatial Aggregation	
150-1 Spatial Composition	■ No building can be input in Scia Engineer.
150-2 Spatial Decomposition	■ No building can be input in Scia Engineer.
210 Property Set	
210-1 Property Set IFC Common	■ No building can be input in Scia Engineer.
General	<i>company statement</i> Site 02 / 2x3
_G4 Remarks	■ No site can be defined in Scia Engineer.

Slab 02A / 2x3



105 IfcSlab	<i>company statement</i>		<i>Slab 02A / 2x3</i>
010 Naming	■	Each element has to have a unique name in Scia Engineer. If in IFC file two or more entities have identical name, only the first one is imported with the name and the others are imported with the name + number.	
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-1 Geometry Box	■	Scia Engineer does not support geometry box.	
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
030-6-2 Geometry Clipping	■	Clippings are imported correctly but internally stored as a resulting shape.	
030-6-5 Geometry Explicit	■		
030-6-9 Geometry Mapped	■	Mapped geometry is imported correctly but internally stored as a single resulting shape.	
070 Voiding			
070-1 Voiding Geometry Explicit	■		
070-2 Voiding Geometry Mapped	■	Mapped voiding geometry is imported correctly but internally stored as a resulting shape.	
070-3 Voiding Geometry SweptSolid	■		

<p>080 Filling</p> <p> 080-1 Has Filling</p> <p> 080-1-1 Has Filling Door</p> <p> 080-1-2 Has Filling Window</p>	<p> Not supported because no door element exists in Scia Engineer.</p> <p> Not supported because no window element exists in Scia Engineer.</p>
<p>120 Spatial Containment</p>	<p></p>
<p>130 Grouping</p> <p> 130-1 Grouping General</p>	<p> Scia Engineer does not support any kind of grouping.</p>
<p>200 Material</p> <p> 200-1 Single Material</p> <p> 200-2 Material Layer Set</p>	<p> Import of general material is not supported. Scia Engineer supports import only material with the proper material code name.</p> <p> Scia Engineer supports only 2D members with single material. It is not possible to define layered walls or slabs.</p>
<p>210 Property Set</p> <p> 210-1 Property Set IFC Common</p> <p> 210-2 Property Set IFC any</p> <p> 210-3 Property Set User Defined</p>	<p></p> <p> Scia Engineer does not support import of IFC Any Property Set.</p> <p> Scia Engineer does not support import of User Defined Property Set.</p>
<p>300 Type</p> <p> 300-1 Type Geometry</p> <p> 300-2 Type Naming</p> <p> 300-3 Type Material</p> <p> 300-5 Type Property Set</p>	<p> Scia Engineer does not support Type Naming because no type naming can be defined.</p> <p> Scia Engineer does not support Type Naming because no type naming can be defined.</p> <p> Scia Engineer does not support Type Material because no type material can be defined.</p> <p> Scia Engineer does not support Type Property Set because no type of properties can be defined.</p>

General

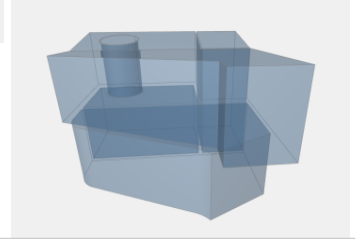
company statement

Slab 02A / 2x3

_G4 Remarks



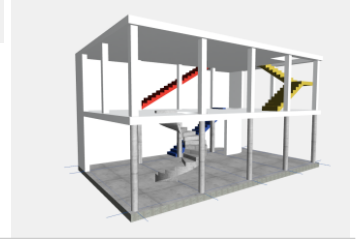
Space 01A / 2x3



505 IfcSpace	<i>company statement</i>	Space 01A / 2x3
001 GUIDs	■ No space can be defined in Scia Engineer.	
002 History	■ No space can be defined in Scia Engineer.	
010 Naming	■ No space can be defined in Scia Engineer.	
020 Placement 020-2 Placement Relative	■ No space can be defined in Scia Engineer.	
030 Geometry 030-6 Geometry Body 030-6-1 Geometry SweptSolid 030-6-2 Geometry Clipping	■ No space can be defined in Scia Engineer. ■ No space can be defined in Scia Engineer.	
040 Presentation 040-1 Geometric Presentation	■ No space can be defined in Scia Engineer.	
050 CAD Layer	■ No space can be defined in Scia Engineer.	
150 Spatial Aggregation 150-1 Spatial Composition	■ No space can be defined in Scia Engineer.	









210 Property Set		
210-1 Property Set IFC Common	■	No space can be defined in Scia Engineer.
210-6 Property Set IFC any	■	No space can be defined in Scia Engineer.
General		<i>company statement</i> Space 01A / 2x3
_G4 Remarks	■	No space can be defined in Scia Engineer.

StairSlab-01 / 2x3



105 IfcSlab	<i>company statement</i>		<i>StairSlab-01 / 2x3</i>
001 GUIDs	■		
002 History	■	Scia Engineer does not support import of history because history of element cannot be defined.	
030 Geometry 030-6 Geometry Body 030-6-1 Geometry SweptSolid	■		
040 Presentation 040-1 Geometric Presentation 040-2 Material Presentation	■	Import of Geometric Presentation is not supported. Scia Engineer does not support individual colours for each separate slab. Material Presentation is not supported because no material presentation can be defined in Scia Engineer.	
070 Voiding 070-3 Voiding Geometry SweptSolid	■		
106 IfcStair	<i>company statement</i>		<i>StairSlab-01 / 2x3</i>
001 GUIDs	■	No stair element can be defined in Scia Engineer therefore it is imported as other native elements.	
002 History	■	No stair element can be defined in Scia Engineer therefore it is imported as other native elements. Scia Engineer does not support import of history because history of element cannot be defined.	
010 Naming	■	No stair element can be defined in Scia Engineer therefore it is imported as other native elements. Each element has to have a unique name in Scia Engineer. If in IFC file two or more entities have identical name, only the first one	

is imported with the name and the others are imported with the name + number.

<p>020 Placement</p> <p>020-1 Placement Relative</p>	<p> No stair element can be defined in Scia Engineer therefore it is imported as other native elements. Imported as other Scia Engineer elements.</p>
<p>030 Geometry</p> <p>030-6 Geometry Body</p> <p>030-6-5 Geometry Explicit</p> <p>030-9 Geometry By Components</p>	<p> No stair element can be defined in Scia Engineer therefore it is imported as other native elements. Imported as other Scia Engineer elements.</p> <p> No stair element can be defined in Scia Engineer therefore it is imported as other native elements. Scia Engineer does not support special composition for any element.</p>
<p>040 Presentation</p> <p>040-1 Geometric Presentation</p>	<p> No stair element can be defined in Scia Engineer therefore it is imported as other native elements. Import of Geometric Presentation is not supported. Scia Engineer does not support individual colours for each separate element.</p>
<p>050 CAD Layer</p>	<p> No stair element can be defined in Scia Engineer therefore it is imported as other native elements. Imported as other Scia Engineer elements.</p>
<p>100 Element Aggregation</p> <p>100-2 Element Decomposition</p>	<p> No stair element can be defined in Scia Engineer therefore it is imported as other native elements. Scia Engineer does not support special decomposition for any element.</p>
<p>120 Spatial Containment</p>	<p> No stair element can be defined in Scia Engineer therefore it is imported as other native elements. Imported as other Scia Engineer elements.</p>
<p>200 Material</p> <p>200-1 Single Material</p>	<p> No stair element can be defined in Scia Engineer therefore it is imported as other native elements. Import of general material is not supported. Scia Engineer supports import only material with the proper material code name</p>

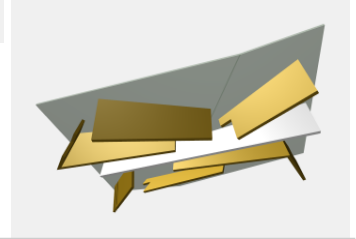
210 Property Set 210-1 Property Set IFC Common	 No stair element can be defined in Scia Engineer therefore it is imported as other native elements.
General	<i>company statement</i> <i>StairSlab-01 / 2x3</i>
_G4 Remarks	

UnitTest-01S / 2x3






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

Wall 02 / 2x3

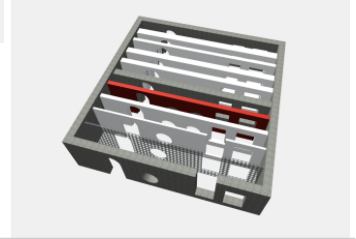


102 IfcWall	<i>company statement</i>	Wall 02 / 2x3
010 Naming	■ Each element has to have a unique name in Scia Engineer. If in IFC file two or more entities have identical name, only the first one is imported with the name and the others are imported with the name + number.	
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-2 Geometry Axis	■ Import of Geometry Axis is not supported. No wall axis entity exists in Scia Engineer.	
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	■ Explicit Voids are imported correctly but internally stored as a resulting shape	
070-3 Voiding Geometry SweptSolid	■	
120 Spatial Containment	■	
130 Grouping		
130-1 Grouping General	■ Scia Engineer does not support any kind of grouping.	

200 Material 200-3 Material Layer Set	 Scia Engineer supports only 2D members with single material. It is not possible to define layered walls or slabs.
300 Type 300-2 Type Naming	 Scia Engineer does not support Type Naming because no type naming can be defined.
General	<i>company statement</i>
_G4 Remarks	

Wall 02 / 2x3

WallStandardCase 03A / 2x3


















101 IfcWallStandardCase	<i>company statement</i>		<i>WallStandardCase 03A / 2x3</i>
010 Naming	■	Each element has to have a unique name in Scia Engineer. If in IFC file two or more entities have identical name, only the first one is imported with the name and the others are imported with the name + number.	
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-2 Geometry Axis	■	Import of Geometry Axis is not supported. No wall axis entity exists in Scia Engineer.	
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	■	Voiding Geometry Mapped is generally supported by Scia Engineer.	
120 Spatial Containment	■		
General	<i>company statement</i>		<i>WallStandardCase 03A / 2x3</i>
_G4 Remarks	■		

Window 01 / 2x3



301 IfcWindow	<i>company statement</i>		Window 01 / 2x3
001 GUIDs	■	No window can be defined in Scia Engineer therefore it is imported as another native element.	
002 History	■	No window can be defined in Scia Engineer therefore it is imported as another native element.	
010 Naming	■	No window can be defined in Scia Engineer therefore it is imported as another native element. Each element has to have a unique name in Scia Engineer. If in IFC file two or more entities have identical name, only the first one is imported with the name and the others are imported with the name + number.	
020 Placement 020-2 Placement Relative	■	No window can be defined in Scia Engineer therefore it is imported as another native element.	
030 Geometry 030-5 Geometry Profile 030-6 Geometry Body 030-6-5 Geometry Explicit 030-6-9 Geometry Mapped	■	No window can be defined in Scia Engineer therefore it is imported as another native element.	
	■	No window can be defined in Scia Engineer therefore it is imported as another native element.	
	■	No window can be defined in Scia Engineer therefore it is imported as another native element.	

040 Presentation 040-1 Geometric Presentation	 No window can be defined in Scia Engineer therefore it is imported as another native element. Import of Geometric Presentation is not supported. Scia Engineer does not support individual colours for each separate element.
050 CAD Layer	 No window can be defined in Scia Engineer therefore it is imported as another native element.
080 Filling 080-2 Is Filling	 No window can be defined in Scia Engineer therefore it is imported as another native element.
120 Spatial Containment	 No window can be defined in Scia Engineer therefore it is imported as another native element.
200 Material 200-1 Single Material 200-5 Material List	 No window can be defined in Scia Engineer therefore it is imported as another native element. Import of general material is not supported. Scia Engineer supports import only material with the proper material code name.  No window can be defined in Scia Engineer therefore it is imported as another native element.

<p>210 Property Set</p> <p>210-1 Property Set IFC Common</p> <p>210-2 Property Set IFC any</p> <p>210-3 Property Set User Defined</p>	<p> No window can be defined in Scia Engineer therefore it is imported as another native element.</p> <p> No window can be defined in Scia Engineer therefore it is imported as another native element.</p> <p> No window can be defined in Scia Engineer therefore it is imported as another native element.</p>
<p>300 Type</p> <p>300-1 Type Geometry</p> <p>300-2 Type Naming</p> <p>300-3 Type Material</p> <p>300-5 Type Property Set</p> <p>300-6 Type Predefined Properties</p> <p>300-6-1 Type Predefined Properties Window</p>	<p> No window can be defined in Scia Engineer therefore it is imported as another native element.</p> <p> No window can be defined in Scia Engineer therefore it is imported as another native element.</p> <p> No window can be defined in Scia Engineer therefore it is imported as another native element.</p> <p> No window can be defined in Scia Engineer therefore it is imported as another native element.</p> <p> No window can be defined in Scia Engineer therefore it is imported as another native element.</p>
<p>General</p>	<p><i>company statement</i></p>
<p>_G4 Remarks</p>	<p></p>