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Introduction

IFC Import for Vectorworks Architect
For IFC2x3 CV2.0 Import, Nemetschek Vectorworks Architect supports the "reference model" methodology, where building elements have their body geometry, semantics, most relationships, and attributes/properties, as expressed in the IFC file, preserved, but not translated into fully parametric native objects.
There is one exception, with Vectorworks Architect supporting the automatic import and translation of IfcSpace objects into native Vectorworks Space objects, to support space planning workflows.
General Availability of the IFC Interfaces in Vectorworks Architect
Vectorworks Architect has support for IFC Import, based on the Coordination View 2.0. IFC Interfaces are delivered with Vectorworks Architect and automatically installed, as they are fully integrated into the software.
Operating the IFC Interfaces
Operation of IFC Import is described in the electronic Vectorworks Help application and PDF manuals. Sample projects and use cases are also available through the Vectorworks BIM webpage <http://www.vectorworks.net/bim> and our YouTube channel.
Update Of IFC Interfaces
Improvements to the IFC Interfaces are delivered via Services Packs, containing general application improvements, to the customer. The application will automatically notify the customer when a Service Pack is available for download and installation.
Certified Import Interfaces
The certified CV2.0 IFC Import is available for Vectorworks Architect 2014 Service Pack 2 (SP2).

Columbia, Maryland
11 Nov 2013
Nemetschek Vectorworks, Inc.

Testlist

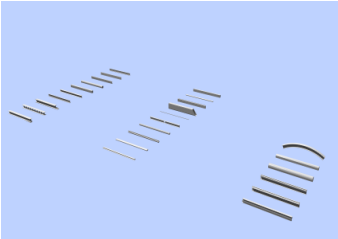
Name test	concepts total	manually checked		
BeamColumn 04 / 2x3	47	34		6
Beam_02 / 2x3	12	11		1
CharsetTest-01A / 2x3	2	2		
Column 01 / 2x3	11	11		
CoveringFurnishing-01 / 2x3	57	47		2
CurtainWall-01 / 2x3	29	18	1	6
Door 01 / 2x3	22	19		3
DoorWindow-02 / 2x3	11	9		2
DuplexHouse_Heating / 2x3	56	38		18
DuplexHouse_Sanitary / 2x3	52	34		15
DuplexHouse_Ventilation / 2x3	44	26		15
Grid 01 / 2x3	11	9		2
Member 01A / 2x3	10	10		
Pile 01 / 2x3	19	15		1
PlateFastener-01 / 2x3	67	54		6
RampRailing-01 / 2x3	28	24		2
RandomArch-X3 RAC / 2x3	9	8		1
RandomArch-X5 RAC / 2x3	13	11		2
RandomMEP-X2 BENCH / 2x3	21	4		6
RandomStruc-X2 Scia / 2x3	10	9		1
RandomStruc-X3 SDS2 / 2x3	17	17		
Roof 01 / 2x3	15	12		1
Site 02 / 2x3	13	7		6
Slab 02A / 2x3	24	22		2
Space 01A / 2x3	12	9	1	2
StairSlab-01 / 2x3	19	17		2

Supported Restricted Not Supported

Name test	concepts total	manually checked		
UnitTest-01A / 2x3	3	3		
Wall 01 / 2x3	19	18		1
WallSlab 03 / 2x3	32	24		8
WallStandardCase 01A / 2x3	15	13		2
WallStandardCase 02A / 2x3	11	9		2
WallStandardCase 04A / 2x3	8	7		1
Window 01 / 2x3	22	19		3

Concepts

Beam_02 / 2x3

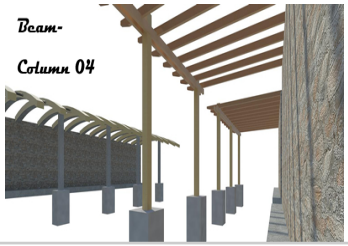


103 IfcBeam	*company statement*	*Beam_02 / 2x3*
010 Naming		
030 Geometry		
030-2 Geometry Axis	For reference model workflow, Geometry Axis not supported at import in Vectorworks.	
030-6 Geometry Body		
030-6-1 Geometry SweptSolid		
030-6-2 Geometry Clipping		
030-6-5 Geometry Explicit		
050 CAD Layer		
070 Voiding		
070-1 Voiding Geometry Explicit		
070-2 Voiding Geometry Mapped		
070-3 Voiding Geometry SweptSolid		
120 Spatial Containment		
200 Material		
200-1 Single Material		
General	*company statement*	*Beam_02 / 2x3*

Supported Restricted Not Supported

_G4 Remarks	

BeamColumn 04 / 2x3



103 IfcBeam	*company statement*	*BeamColumn 04 / 2x3*
001 GUIDs		
002 History		For reference model workflow, object History not supported at import in Vectorworks.
010 Naming		
020 Placement		
020-2 Placement Relative		
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid		
030-6-9 Geometry Mapped		This kind of geometry is supported at import in Vectorworks.
070 Voiding		
070-1 Voiding Geometry Explicit		This kind of geometry is supported at import in Vectorworks.
070-2 Voiding Geometry Mapped		This kind of geometry is supported at import in Vectorworks.
070-3 Voiding Geometry SweptSolid		
130 Grouping		
130-1 Grouping General		IfcGroup is not supported in Vectorworks
200 Material		
200-1 Single Material		

Supported Restricted Not Supported

210 Property Set		
210-1 Property Set IFC Common	Supported	
210-3 Property Set User Defined	Supported	
300 Type		
300-1 Type Geometry	Supported	Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
300-2 Type Naming	Supported	Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
300-3 Type Material	Supported	Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
300-5 Type Property Set	Supported	Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
104 IfcColumn	*company statement*	*BeamColumn 04 / 2x3*
001 GUIDs	Supported	
002 History	Not Supported	For reference model workflow, object History not supported at import in Vectorworks.
010 Naming	Supported	
020 Placement		
020-2 Placement Relative	Supported	
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	Supported	
030-6-9 Geometry Mapped	Supported at import	This kind of geometry is supported at import in Vectorworks.
070 Voiding		
070-1 Voiding Geometry Explicit	Supported at import	This kind of geometry is supported at import in Vectorworks.
070-2 Voiding Geometry Mapped	Supported at import	This kind of geometry is supported at import in Vectorworks.
070-3 Voiding Geometry SweptSolid	Supported	
130 Grouping		
130-1 Grouping General	Not Supported	IfcGroup is not supported in Vectorworks

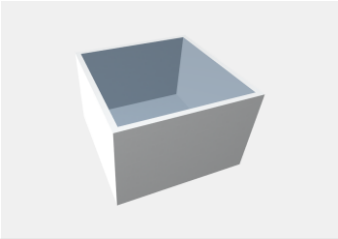
Supported Restricted Not Supported

200 Material		
200-1 Single Material		
210 Property Set		
210-2 Property Set IFC any		
300 Type		
300-1 Type Geometry		Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
300-2 Type Naming		Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
300-3 Type Material		Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
300-5 Type Property Set		Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
403 IfcFooting	*company statement*	*BeamColumn 04 / 2x3*
001 GUIDs		
002 History		For reference model workflow, object History not supported at import in Vectorworks.
010 Naming		
020 Placement		
020-1 Placement Relative		
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid		
030-6-9 Geometry Mapped		This kind of geometry is supported at import in Vectorworks.
130 Grouping		
130-1 Grouping General		IfcGroup is not supported in Vectorworks
200 Material		
200-1 Single Material		

Supported Restricted Not Supported

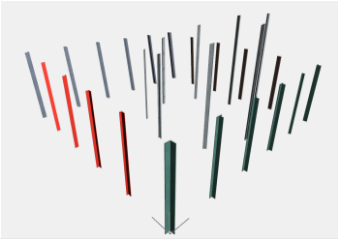
210 Property Set		
210-2 Property Set IFC any	■	
300 Type		
300-1 Type Geometry	■	
300-2 Type Naming	■	
300-3 Type Material	■	
300-5 Type Property Set	■	
General	*company statement*	*BeamColumn 04 / 2x3*
_G4 Remarks	■	

CharsetTest-01A / 2x3



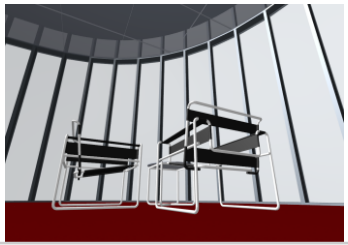
General	*company statement*	*CharsetTest-01A / 2x3*
_G1 Character sets		
_G4 Remarks		

Column 01 / 2x3



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

CoveringFurnishing-01 / 2x3



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

Supported Restricted Not Supported

300 Type		
300-1 Type Geometry	■	
300-2 Type Naming	■	
300-3 Type Material	■	Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
300-5 Type Property Set	■	Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
303 IfcCovering	*company statement*	*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	■	This kind of geometry is supported at import in Vectorworks.
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	Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.	
300-2 Type Naming	Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.	
300-3 Type Material	Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.	
300-5 Type Property Set	Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.	
304 IfcFurnishingElement	*company statement*	*CoveringFurnishing-01 / 2x3*
001 GUIDs		
010 Naming		
020 Placement		
020-2 Placement Relative		
030 Geometry		
030-6 Geometry Body		
030-6-5 Geometry Explicit		
030-6-9 Geometry Mapped		
040 Presentation		
040-1 Geometric Presentation		
050 CAD Layer		
120 Spatial Containment		
200 Material		
200-1 Single Material		
200-5 Material List		
210 Property Set		
210-6 Property Set IFC any		
210-9 Property Set User Defined		

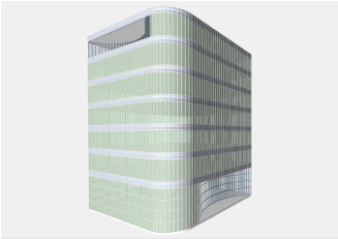
Supported Restricted Not Supported

300 Type			
300-1 Type Geometry	Supported		
300-2 Type Naming	Supported		
300-3 Type Material	Supported		
300-5 Type Property Set	Not applicable	Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.	
505 IfcSpace		*company statement*	*CoveringFurnishing-01 / 2x3*
030 Geometry			
030-3 Geometry FootPrint	Not Supported	For reference model workflow, Geometry FootPrint not supported at import in Vectorworks.	
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	Supported		
120 Spatial Containment	Supported		
130 Grouping			
130-3 Grouping to Zones	Supported		
230 Classification	Supported		
508 IfcZone		*company statement*	*CoveringFurnishing-01 / 2x3*
001 GUIDs	Supported		
002 History	Not Supported	For reference model workflow, object History not supported at import in Vectorworks.	
010 Naming	Supported		
130 Grouping			
130-5 Is Group	Supported		
210 Property Set			
210-1 Property Set IFC Common	Supported		
210-9 Property Set User Defined	Supported		
General		*company statement*	*CoveringFurnishing-01 / 2x3*

Supported Restricted Not Supported

_G4 Remarks	

CurtainWall-01 / 2x3



109 IfcCurtainWall	*company statement*	*CurtainWall-01 / 2x3*
001 GUIDs		
002 History	For reference model workflow, object History not supported at import in Vectorworks.	
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		

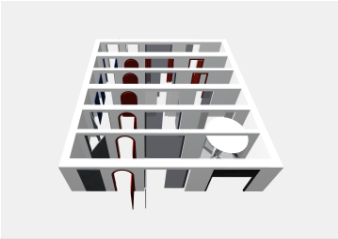
Supported Restricted Not Supported

210 Property Set			
210-1 Property Set IFC Common	Supported		
210-3 Property Set User Defined	Supported		
300 Type			
300-1 Type Geometry	Not applicable	Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.	
300-2 Type Naming	Not applicable	Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.	
300-3 Type Material	Not applicable	Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.	
300-5 Type Property Set	Not applicable	Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.	
501 IfcProject		*company statement*	*CurtainWall-01 / 2x3*
010 Naming	Not Supported	Vectorworks currently lacks User Interface elements to display the Project Name at import.	
502 IfcSite		*company statement*	*CurtainWall-01 / 2x3*
010 Naming	Restricted	IfcSite Name only supported if there is geometry.	
060 Location			
060-1 Geographic Location	Not Supported	Vectorworks currently lacks User Interface elements to display the Geographic Location at import.	
060-2 Address	Not Supported	Vectorworks currently lacks User Interface elements to display the Site Address at import.	
503 IfcBuilding		*company statement*	*CurtainWall-01 / 2x3*
010 Naming	Not Supported	Vectorworks currently lacks User Interface elements to display the Building Name at import.	
020 Placement			
020-2 Placement Relative	Supported		
504 IfcBuildingStorey		*company statement*	*CurtainWall-01 / 2x3*
010 Naming	Supported		
020 Placement			
020-2 Placement Relative	Supported		

Supported Restricted Not Supported

060 Location		
060-4 Storey Elevation		
210 Property Set		
210-1 Property Set IFC Common		Property Sets for Building Storey is not supported at import
General	*company statement*	*CurtainWall-01 / 2x3*
_G4 Remarks		

Door 01 / 2x3



302 IfcDoor	*company statement*	*Door 01 / 2x3*
001 GUIDs		
002 History	For reference model workflow, object History not supported at import in Vectorworks.	
010 Naming		
020 Placement		
020-2 Placement Relative		
030 Geometry		
030-5 Geometry Profile	For reference model workflow, Geometry Profile not supported at import in Vectorworks.	
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		

Supported Restricted Not Supported

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		Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
300-2 Type Naming		Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
300-3 Type Material		Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
300-5 Type Property Set		Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
300-6 Type Predefined Properties		
300-6-1 Type Predefined Properties Door		Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
General	*company statement*	*Door 01 / 2x3*
_G4 Remarks		

DoorWindow-02 / 2x3

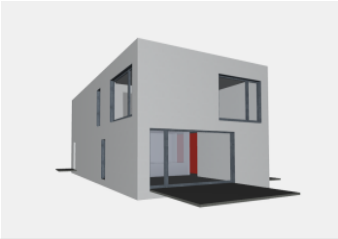
301 IfcWindow	*company statement*	*DoorWindow-02 / 2x3*
001 GUIDs		
020 Placement		
020-2 Placement Relative		
030 Geometry		
030-6 Geometry Body		
030-6-5 Geometry Explicit		
080 Filling		
080-2 Is Filling	For reference model workflow, Is Filling attribute and relationship not supported at import in Vectorworks.	
300 Type		
300-1 Type Geometry		

302 IfcDoor	*company statement*	*DoorWindow-02 / 2x3*
001 GUIDs		
020 Placement		
020-2 Placement Relative		
030 Geometry		
030-6 Geometry Body		
030-6-5 Geometry Explicit		
080 Filling		
080-2 Is Filling	For reference model workflow, Is Filling attribute and relationship not supported at import in Vectorworks.	

Supported Restricted Not Supported

300 Type		
300-1 Type Geometry	■	
General	*company statement*	*DoorWindow-02 / 2x3*
_G4 Remarks	■	

DuplexHouse_Heating / 2x3



204 IfcEnergyConversionDevice		*company statement*	*DuplexHouse_Heating / 2x3*
010 Naming			
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit			
030-6-9 Geometry Mapped			
040 Presentation			
040-1 Geometric Presentation			
100 Element Aggregation			
100-4 Port Assignment		Out of scope for referenced import into an architectural application	
110 Connectivity			
110-5 Connectivity by Ports		Out of scope for referenced import into an architectural application	
130 Grouping			
130-2 Grouping to Systems		Out of scope for referenced import into an architectural application	
300 Type			
300-1 Type Geometry		Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.	
300-5 Type Property Set		Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.	
205 IfcFlowController		*company statement*	*DuplexHouse_Heating / 2x3*
010 Naming			

Supported Restricted Not Supported

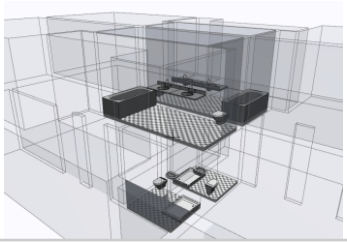
030 Geometry		
030-6 Geometry Body		
030-6-5 Geometry Explicit	Supported	
030-6-9 Geometry Mapped	Supported	
040 Presentation		
040-1 Geometric Presentation	Supported	
100 Element Aggregation		
100-4 Port Assignment	Not Supported	Out of scope for referenced import into an architectural application
110 Connectivity		
110-5 Connectivity by Ports	Not Supported	Out of scope for referenced import into an architectural application
130 Grouping		
130-2 Grouping to Systems	Not Supported	Out of scope for referenced import into an architectural application
300 Type		
300-1 Type Geometry	Supported	Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
300-5 Type Property Set	Supported	Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
206 IfcFlowFitting	*company statement*	*DuplexHouse_Heating / 2x3*
010 Naming	Supported	
030 Geometry		
030-6 Geometry Body		
030-6-5 Geometry Explicit	Supported	
030-6-9 Geometry Mapped	Supported	
040 Presentation		
040-1 Geometric Presentation	Supported	

100 Element Aggregation		
100-4 Port Assignment	Not Supported	Out of scope for referenced import into an architectural application
110 Connectivity		
110-5 Connectivity by Ports	Not Supported	Out of scope for referenced import into an architectural application
130 Grouping		
130-2 Grouping to Systems	Not Supported	Out of scope for referenced import into an architectural application
300 Type		
300-1 Type Geometry	Supported	Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
300-5 Type Property Set	Supported	Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
207 IfcFlowMovingDevice	*company statement*	*DuplexHouse_Heating / 2x3*
010 Naming	Supported	
030 Geometry		
030-6 Geometry Body		
030-6-5 Geometry Explicit	Supported	
030-6-9 Geometry Mapped	Supported	
040 Presentation		
040-1 Geometric Presentation	Supported	
100 Element Aggregation		
100-4 Port Assignment	Not Supported	Out of scope for referenced import into an architectural application
110 Connectivity		
110-5 Connectivity by Ports	Not Supported	Out of scope for referenced import into an architectural application
130 Grouping		
130-2 Grouping to Systems	Not Supported	Out of scope for referenced import into an architectural application

300 Type		
300-1 Type Geometry	Supported	Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
300-5 Type Property Set	Supported	Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
208 IfcFlowSegment	*company statement*	*DuplexHouse_Heating / 2x3*
010 Naming	Supported	
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	Supported	
030-6-5 Geometry Explicit	Supported	
030-6-9 Geometry Mapped	Supported	
040 Presentation		
040-1 Geometric Presentation	Supported	
100 Element Aggregation		
100-4 Port Assignment	Not Supported	Out of scope for referenced import into an architectural application
110 Connectivity		
110-5 Connectivity by Ports	Not Supported	Out of scope for referenced import into an architectural application
130 Grouping		
130-2 Grouping to Systems	Not Supported	Out of scope for referenced import into an architectural application
300 Type		
300-1 Type Geometry	Supported	Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
300-5 Type Property Set	Supported	Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
210 IfcFlowTerminal	*company statement*	*DuplexHouse_Heating / 2x3*
010 Naming	Supported	

030 Geometry		
030-6 Geometry Body		
030-6-5 Geometry Explicit	Supported	
030-6-9 Geometry Mapped	Supported	
040 Presentation		
040-1 Geometric Presentation	Supported	
100 Element Aggregation		
100-4 Port Assignment	Not Supported	Out of scope for referenced import into an architectural application
110 Connectivity		
110-5 Connectivity by Ports	Not Supported	Out of scope for referenced import into an architectural application
130 Grouping		
130-2 Grouping to Systems	Not Supported	Out of scope for referenced import into an architectural application
300 Type		
300-1 Type Geometry	Supported	Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
300-5 Type Property Set	Supported	Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
General	*company statement*	*DuplexHouse_Heating / 2x3*
_G4 Remarks	Supported	

DuplexHouse_Sanitary / 2x3



205 IfcFlowController	*company statement*	*DuplexHouse_Sanitary / 2x3*
010 Naming	Supported	
020 Placement		
020-2 Placement Relative	Supported	
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	Supported	
030-6-5 Geometry Explicit	Supported	
030-6-9 Geometry Mapped	Supported	
040 Presentation		
040-1 Geometric Presentation	Supported	
100 Element Aggregation		
100-4 Port Assignment	Not Supported	Out of scope for referenced import into an architectural application
110 Connectivity		
110-5 Connectivity by Ports	Not Supported	Out of scope for referenced import into an architectural application
120 Spatial Containment	Supported	
130 Grouping		
130-2 Grouping to Systems	Not Supported	Out of scope for referenced import into an architectural application

206 IfcFlowFitting	*company statement*	*DuplexHouse_Sanitary / 2x3*
010 Naming	Supported	

Supported Restricted Not Supported

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		
100 Element Aggregation		
100-4 Port Assignment	Out of scope for referenced import into an architectural application	
110 Connectivity		
110-5 Connectivity by Ports	Out of scope for referenced import into an architectural application	
120 Spatial Containment		
130 Grouping		
130-2 Grouping to Systems	Out of scope for referenced import into an architectural application	
208 IfcFlowSegment	*company statement*	*DuplexHouse_Sanitary / 2x3*
010 Naming		
020 Placement		
020-2 Placement Relative		
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid		
030-6-5 Geometry Explicit	This kind of geometry is supported at import in Vectorworks.	
030-6-9 Geometry Mapped	This kind of geometry is supported at import in Vectorworks.	

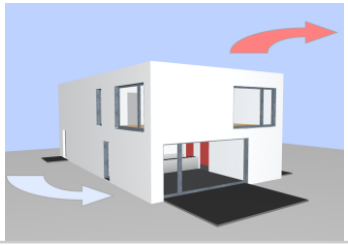
Supported Restricted Not Supported

040 Presentation		
040-1 Geometric Presentation	Supported	
100 Element Aggregation		
100-4 Port Assignment	Not Supported	Out of scope for referenced import into an architectural application
110 Connectivity		
110-5 Connectivity by Ports	Not Supported	Out of scope for referenced import into an architectural application
120 Spatial Containment	Supported	
130 Grouping		
130-2 Grouping to Systems	Not Supported	Out of scope for referenced import into an architectural application
210 IfcFlowTerminal	*company statement*	*DuplexHouse_Sanitary / 2x3*
010 Naming	Supported	
020 Placement		
020-2 Placement Relative	Supported	
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	Restricted	This kind of geometry is supported at import in Vectorworks.
030-6-5 Geometry Explicit	Supported	
030-6-9 Geometry Mapped	Supported	
040 Presentation		
040-1 Geometric Presentation	Supported	
050 CAD Layer	Supported	
100 Element Aggregation		
100-4 Port Assignment	Not Supported	Out of scope for referenced import into an architectural application
110 Connectivity		
110-5 Connectivity by Ports	Not Supported	Out of scope for referenced import into an architectural application

Supported Restricted Not Supported

120 Spatial Containment		
130 Grouping		
130-2 Grouping to Systems		Out of scope for referenced import into an architectural application
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		Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
300-2 Type Naming		Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
300-3 Type Material		Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
300-5 Type Property Set		Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
507 IfcSystem	*company statement*	*DuplexHouse_Sanitary / 2x3*
010 Naming		IfcSystem is not supported in Vectorworks.
130 Grouping		
130-5 Is Group		IfcSystem is not supported in Vectorworks.
250 System Assignment		
250-2 Services Spatial Element		IfcSystem is not supported in Vectorworks.
General	*company statement*	*DuplexHouse_Sanitary / 2x3*
_G4 Remarks		

DuplexHouse_Ventilation / 2x3



206 IfcFlowFitting	*company statement*	*DuplexHouse_Ventilation / 2x3*
010 Naming	Supported	
020 Placement		
020-2 Placement Relative	Supported	
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	Supported	
030-6-5 Geometry Explicit	Supported	
030-6-9 Geometry Mapped	Supported	
040 Presentation		
040-1 Geometric Presentation	Supported	
100 Element Aggregation		
100-4 Port Assignment	Not Supported	Out of scope for referenced import into an architectural application
110 Connectivity		
110-5 Connectivity by Ports	Not Supported	Out of scope for referenced import into an architectural application
120 Spatial Containment	Supported	
130 Grouping		
130-2 Grouping to Systems	Not Supported	Out of scope for referenced import into an architectural application

207 IfcFlowMovingDevice	*company statement*	*DuplexHouse_Ventilation / 2x3*
010 Naming	Supported	

Supported Restricted Not Supported

020 Placement		
020-2 Placement Relative		
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid		
030-6-5 Geometry Explicit		This kind of geometry is supported at import in Vectorworks.
030-6-9 Geometry Mapped		
040 Presentation		
040-1 Geometric Presentation		
100 Element Aggregation		
100-4 Port Assignment		Out of scope for referenced import into an architectural application
110 Connectivity		
110-5 Connectivity by Ports		Out of scope for referenced import into an architectural application
120 Spatial Containment		
130 Grouping		
130-2 Grouping to Systems		Out of scope for referenced import into an architectural application
208 IfcFlowSegment	*company statement*	*DuplexHouse_Ventilation / 2x3*
010 Naming		
020 Placement		
020-2 Placement Relative		
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid		
030-6-5 Geometry Explicit		
030-6-9 Geometry Mapped		This kind of geometry is supported at import in Vectorworks.

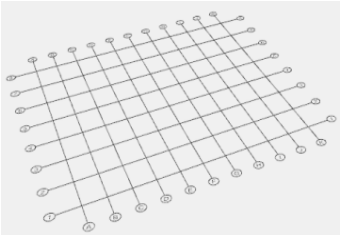
Supported Restricted Not Supported

040 Presentation		
040-1 Geometric Presentation	Supported	
100 Element Aggregation		
100-4 Port Assignment	Not Supported	Out of scope for referenced import into an architectural application
110 Connectivity		
110-5 Connectivity by Ports	Not Supported	Out of scope for referenced import into an architectural application
120 Spatial Containment	Supported	
130 Grouping		
130-2 Grouping to Systems	Not Supported	Out of scope for referenced import into an architectural application
210 IfcFlowTerminal	*company statement*	*DuplexHouse_Ventilation / 2x3*
010 Naming	Supported	
020 Placement		
020-2 Placement Relative	Supported	
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	Restricted	This kind of geometry is supported at import in Vectorworks.
030-6-5 Geometry Explicit	Supported	
030-6-9 Geometry Mapped	Supported	
040 Presentation		
040-1 Geometric Presentation	Supported	
100 Element Aggregation		
100-4 Port Assignment	Not Supported	Out of scope for referenced import into an architectural application
110 Connectivity		
110-5 Connectivity by Ports	Not Supported	Out of scope for referenced import into an architectural application
120 Spatial Containment	Supported	

Supported Restricted Not Supported

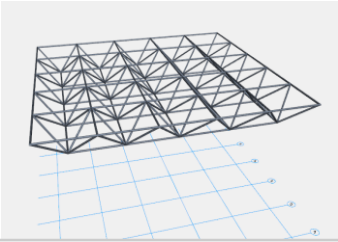
130 Grouping		
130-2 Grouping to Systems	Out of scope for referenced import into an architectural application	
507 IfcSystem	*company statement*	*DuplexHouse_Ventilation / 2x3*
010 Naming	Out of scope for referenced import into an architectural application	
130 Grouping		
130-5 Is Group	Out of scope for referenced import into an architectural application	
250 System Assignment		
250-2 Services Spatial Element	Out of scope for referenced import into an architectural application	
General	*company statement*	*DuplexHouse_Ventilation / 2x3*
_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	For reference model workflow, a Grid Geometric Presentation is not supported at import in Vectorworks.	
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		

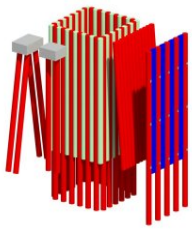
Member 01A / 2x3



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

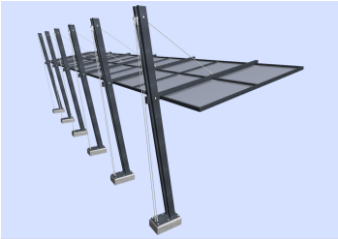


404 IfcPile	*company statement*	*Pile 01 / 2x3*
001 GUIDs		
002 History	For reference model workflow, object History not supported at import in Vectorworks.	
010 Naming		
020 Placement		
020-1 Placement Relative		
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid		
030-6-2 Geometry Clipping		
030-6-9 Geometry Mapped		
040 Presentation		
040-1 Geometric Presentation		
040-2 Material Presentation		
050 CAD Layer		
070 Voiding		
070-3 Voiding Geometry SweptSolid		
100 Element Aggregation		
100-2 Element Decomposition		
120 Spatial Containment		

Supported Restricted Not Supported

200 Material		
200-1 Single Material		
210 Property Set		
210-3 Property Set User Defined		
300 Type		
300-1 Type Geometry		Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
300-3 Type Material		Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
300-5 Type Property Set		Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
General	*company statement*	*Pile 01 / 2x3*
_G4 Remarks		

PlateFastener-01 / 2x3



103 IfcBeam	*company statement*	*PlateFastener-01 / 2x3*
001 GUIDs		
002 History	For reference model workflow, object History not supported at import in Vectorworks.	
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	For reference model workflow, object History not supported at import in Vectorworks.	
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid		
030-6-9 Geometry Mapped		
100 Element Aggregation		
100-2 Element Decomposition	Element Decomposition is not supported for columns, all geometry is combined into one entity at import.	
210 Property Set		
210-3 Property Set User Defined		

Supported Restricted Not Supported

300 Type		
300-1 Type Geometry	Supported	Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
300-2 Type Naming	Supported	Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
300-3 Type Material	Supported	Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
300-5 Type Property Set	Supported	Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
401 IfcMember	*company statement*	*PlateFastener-01 / 2x3*
001 GUIDs	Supported	
002 History	Not Supported	For reference model workflow, object History not supported at import in Vectorworks.
020 Placement		
020-2 Placement Relative	Supported	
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	Supported	
030-6-9 Geometry Mapped	Supported	
040 Presentation		
040-1 Geometric Presentation	Supported	
050 CAD Layer	Supported	
210 Property Set		
210-1 Property Set IFC Common	Supported	
210-3 Property Set User Defined	Supported	

Supported Restricted Not Supported

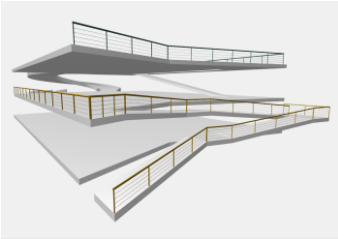
300 Type		
300-2 Type Naming	Supported	Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
300-3 Type Material	Supported	Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
300-5 Type Property Set	Supported	Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
402 IfcPlate	*company statement*	*PlateFastener-01 / 2x3*
001 GUIDs	Supported	
002 History	Not Supported	For reference model workflow, object History not supported at import in Vectorworks.
010 Naming	Supported	
020 Placement		
020-2 Placement Relative	Supported	
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	Supported	
030-6-2 Geometry Clipping	Restricted	This kind of geometry is supported at import in Vectorworks.
030-6-5 Geometry Explicit	Supported	
040 Presentation		
040-1 Geometric Presentation	Supported	
050 CAD Layer	Supported	
070 Voiding		
070-3 Voiding Geometry SweptSolid	Restricted	This kind of geometry is supported at import in Vectorworks.
120 Spatial Containment	Supported	
200 Material		
200-2 Material Layer Set	Restricted	Material layer sets are supported at import in Vectorworks.

210 Property Set		
210-1 Property Set IFC Common	Supported	
210-3 Property Set User Defined	Supported	
300 Type		
300-1 Type Geometry	Supported	Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
300-2 Type Naming	Supported	Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
300-3 Type Material	Supported	Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
300-5 Type Property Set	Supported	Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
403 IfcFooting	*company statement*	*PlateFastener-01 / 2x3*
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	Restricted	This kind of geometry is supported at import in Vectorworks.
030-6-2 Geometry Clipping	Restricted	This kind of geometry is supported at import in Vectorworks.
405 IfcFastener	*company statement*	*PlateFastener-01 / 2x3*
010 Naming	Supported	
020 Placement		
020-2 Placement Relative	Supported	
030 Geometry		
030-2 Geometry Axis	Not Supported	For reference model workflow, Geometry Axis not supported at import in Vectorworks.
406 IfcMechanicalFastener	*company statement*	*PlateFastener-01 / 2x3*
001 GUIDs	Supported	
002 History	Not Supported	For reference model workflow, object History not supported at import in Vectorworks.
010 Naming	Supported	

020 Placement		
020-2 Placement Relative	Supported	
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	Supported	
030-6-5 Geometry Explicit	Restricted	This kind of geometry is supported at import in Vectorworks.
030-6-9 Geometry Mapped	Supported	
040 Presentation		
040-1 Geometric Presentation	Supported	
050 CAD Layer	Supported	
120 Spatial Containment	Supported	
200 Material		
200-1 Single Material	Supported	
210 Property Set		
210-6 Property Set IFC any	Supported	
210-9 Property Set User Defined	Supported	
300 Type		
300-1 Type Geometry	Supported	Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
300-2 Type Naming	Supported	Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
300-3 Type Material	Supported	Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
300-5 Type Property Set	Supported	Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
General	*company statement*	*PlateFastener-01 / 2x3*
_G4 Remarks	Supported	

Supported Restricted Not Supported

RampRailing-01 / 2x3



107 IfcRamp	*company statement*	*RampRailing-01 / 2x3*
001 GUIDs		
002 History	For reference model workflow, object History not supported at import in Vectorworks.	
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	For reference model workflow, object History not supported at import in Vectorworks.	
010 Naming		
020 Placement		
020-2 Placement Relative		
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	This kind of geometry is supported at import in Vectorworks.	
030-6-5 Geometry Explicit		
030-6-9 Geometry Mapped	This kind of geometry is supported at import in Vectorworks.	
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*

Supported Restricted Not Supported

_G4 Remarks	

RandomArch-X3 RAC / 2x3

101 IfcWallStandardCase		*company statement*	*RandomArch-X3 RAC / 2x3*
020 Placement			
020-2 Placement Relative	■		
102 IfcWall		*company statement*	*RandomArch-X3 RAC / 2x3*
020 Placement			
020-2 Placement Relative	■		
105 IfcSlab		*company statement*	*RandomArch-X3 RAC / 2x3*
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
110 IfcRoof		*company statement*	*RandomArch-X3 RAC / 2x3*
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
111 IfcBuildingElementProxy		*company statement*	*RandomArch-X3 RAC / 2x3*
010 Naming	■		
503 IfcBuilding		*company statement*	*RandomArch-X3 RAC / 2x3*
010 Naming	■	Vectorworks currently lacks User Interface elements to display the Building Name at import.	
General		*company statement*	*RandomArch-X3 RAC / 2x3*
_G4 Remarks	■		

■ Supported ■ Restricted ■ Not Supported

RandomArch-X5 RAC / 2x3

106 IfcStair	*company statement*	*RandomArch-X5 RAC / 2x3*
001 GUIDs		
002 History	For reference model workflow, object History not supported at import in Vectorworks.	
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	*company statement*	*RandomArch-X5 RAC / 2x3*
001 GUIDs		
002 History	For reference model workflow, object History not supported at import in Vectorworks.	
020 Placement		
020-2 Placement Relative		
040 Presentation		
040-1 Geometric Presentation		
General	*company statement*	*RandomArch-X5 RAC / 2x3*

Supported Restricted Not Supported

_G4 Remarks	

RandomMEP-X2 BENCH / 2x3

206 IfcFlowFitting	*company statement*	*RandomMEP-X2 BENCH / 2x3*
030 Geometry		
030-6 Geometry Body		
030-6-9 Geometry Mapped		
100 Element Aggregation		
100-4 Port Assignment	Out of scope for referenced import into an architectural application	
110 Connectivity		
110-5 Connectivity by Ports	Out of scope for referenced import into an architectural application	
207 IfcFlowMovingDevice	*company statement*	*RandomMEP-X2 BENCH / 2x3*
010 Naming	This concept is supported at import in Vectorworks.	
020 Placement		
020-2 Placement Relative	This concept is supported at import in Vectorworks.	
030 Geometry		
030-6 Geometry Body		
030-6-5 Geometry Explicit	This kind of geometry is supported at import in Vectorworks.	
030-6-9 Geometry Mapped	This kind of geometry is supported at import in Vectorworks.	
040 Presentation		
040-1 Geometric Presentation	This concept is supported at import in Vectorworks.	
050 CAD Layer	This concept is supported at import in Vectorworks.	

Supported Restricted Not Supported

100 Element Aggregation		
100-4 Port Assignment		Out of scope for referenced import into an architectural application
110 Connectivity		
110-5 Connectivity by Ports		Out of scope for referenced import into an architectural application
120 Spatial Containment		This concept is supported at import in Vectorworks.
200 Material		
200-1 Single Material		This concept is supported at import in Vectorworks.
210 Property Set		
210-9 Property Set User Defined		This concept is supported at import in Vectorworks.
208 IfcFlowSegment	*company statement*	*RandomMEP-X2 BENCH / 2x3*
030 Geometry		
030-6 Geometry Body		
030-6-9 Geometry Mapped		
100 Element Aggregation		
100-4 Port Assignment		Out of scope for referenced import into an architectural application
110 Connectivity		
110-5 Connectivity by Ports		Out of scope for referenced import into an architectural application
210 IfcFlowTerminal	*company statement*	*RandomMEP-X2 BENCH / 2x3*
030 Geometry		
030-6 Geometry Body		
030-6-9 Geometry Mapped		
100 Element Aggregation		
100-4 Port Assignment		Out of scope for referenced import into an architectural application
110 Connectivity		
110-5 Connectivity by Ports		Out of scope for referenced import into an architectural application

Supported Restricted Not Supported

General	*company statement*	*RandomMEP-X2 BENCH / 2x3*
_G4 Remarks		

RandomStruc-X2 Scia / 2x3

411 IfcTendon	*company statement*	*RandomStruc-X2 Scia / 2x3*
001 GUIDs		
002 History	For reference model workflow, object History not supported at import in Vectorworks.	
010 Naming		
020 Placement		
020-2 Placement Relative		
030 Geometry		
030-6 Geometry Body		
030-6-4 Geometry AdvancedSweptSolid		
040 Presentation		
040-1 Geometric Presentation		
050 CAD Layer		
120 Spatial Containment		
200 Material		
200-1 Single Material		
General	*company statement*	*RandomStruc-X2 Scia / 2x3*
_G4 Remarks		

RandomStruc-X3 SDS2 / 2x3

108 IfcRailing	*company statement*	*RandomStruc-X3 SDS2 / 2x3*
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
100 Element Aggregation		
100-2 Element Decomposition	■	
210 Property Set		
210-3 Property Set User Defined	■	
401 IfcMember	*company statement*	*RandomStruc-X3 SDS2 / 2x3*
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
030-6-5 Geometry Explicit	■	
030-6-9 Geometry Mapped	■	
040 Presentation		
040-1 Geometric Presentation	■	

100 Element Aggregation	
100-1 Element Composition	■
200 Material	
200-1 Single Material	■
210 Property Set	
210-3 Property Set User Defined	■
300 Type	
300-1 Type Geometry	■
300-2 Type Naming	■
300-5 Type Property Set	■
General	*company statement* — *RandomStruc-X3 SDS2 / 2x3*
_G4 Remarks	■

Roof 01 / 2x3

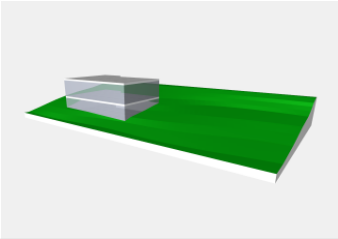
101 IfcWallStandardCase	*company statement*	*Roof 01 / 2x3*
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	This kind of geometry is supported at import in Vectorworks.	
030-6-2 Geometry Clipping		

105 IfcSlab	*company statement*	*Roof 01 / 2x3*
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	This kind of geometry is supported at import in Vectorworks.	
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		
200 Material		
200-2 Material Layer Set		

110 IfcRoof	*company statement*	*Roof 01 / 2x3*

030 Geometry		
030-1 Geometry Box	Not Supported	For reference model workflow, Geometry Box not supported at import in Vectorworks.
040 Presentation		
040-1 Geometric Presentation	Supported	
040-2 Material Presentation	Supported	
100 Element Aggregation		
100-2 Element Decomposition	Supported	
120 Spatial Containment	Supported	
200 Material		
200-1 Single Material	Supported	
General	*company statement*	*Roof 01 / 2x3*
_G4 Remarks	Supported	

Site 02 / 2x3

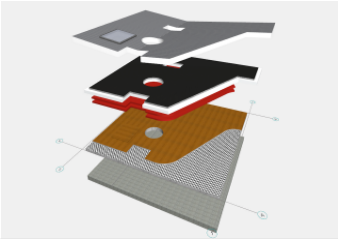


502 IfcSite	*company statement*	*Site 02 / 2x3*
010 Naming		
020 Placement		
020-1 Placement Absolute		
030 Geometry		
030-3 Geometry FootPrint	For reference model workflow, Geometry FootPrint not supported at import in Vectorworks.	
030-6 Geometry Body		
030-6-5 Geometry Explicit		
150 Spatial Aggregation		
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	Vectorworks currently lacks User Interface elements to display the Building Name at import, unless IfcBuilding has geometry.	
020 Placement		
020-2 Placement Relative		

150 Spatial Aggregation		
150-1 Spatial Composition	Not Supported	Vectorworks currently lacks User Interface elements to display the Spatial Composition at import, unless IfcBuilding has geometry.
150-2 Spatial Decomposition	Not Supported	Vectorworks currently lacks User Interface elements to display the Spatial Decomposition at import, unless IfcBuilding has geometry.
210 Property Set		
210-1 Property Set IFC Common	Not Supported	Vectorworks currently lacks User Interface elements to display the Building Property Set at import, unless IfcBuilding has geometry.
General	*company statement*	*Site 02 / 2x3*
_G4 Remarks	Supported	

Slab 02A / 2x3

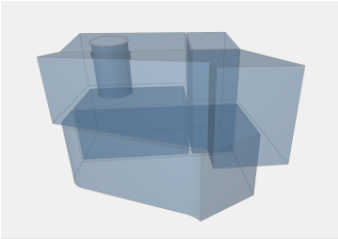


105 IfcSlab	*company statement*	*Slab 02A / 2x3*
010 Naming		
020 Placement		
020-2 Placement Relative		
030 Geometry		
030-1 Geometry Box	For reference model workflow, Geometry Box not supported at import in Vectorworks.	
030-6 Geometry Body		
030-6-1 Geometry SweptSolid		
030-6-2 Geometry Clipping		
030-6-5 Geometry Explicit		
030-6-9 Geometry Mapped		
070 Voiding		
070-1 Voiding Geometry Explicit		
070-2 Voiding Geometry Mapped		
070-3 Voiding Geometry SweptSolid		
080 Filling		
080-1 Has Filling		
080-1-1 Has Filling Door		
080-1-2 Has Filling Window		
120 Spatial Containment		

Supported Restricted Not Supported

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

Space 01A / 2x3

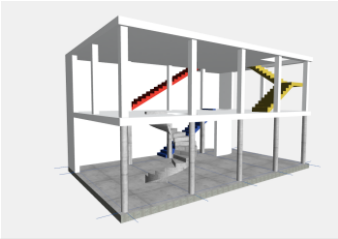


505 IfcSpace	*company statement*	*Space 01A / 2x3*
001 GUIDs		
002 History	For reference model workflow, object History not supported at import in Vectorworks.	
010 Naming		
020 Placement		
020-2 Placement Relative		
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid		
030-6-2 Geometry Clipping	The Vectorworks native Space object does not support Geometry Clipping. The base extrude (before cuttings) is used as body geometry.	
040 Presentation		
040-1 Geometric Presentation	Supported only in the top/plan view.	
050 CAD Layer		
150 Spatial Aggregation		
150-1 Spatial Composition		
210 Property Set		
210-1 Property Set IFC Common		
210-6 Property Set IFC any		
General	*company statement*	*Space 01A / 2x3*
_G4 Remarks	Vectorworks will convert IfcSpace objects to native Vectorworks Space objects	

Supported Restricted Not Supported

at import.

StairSlab-01 / 2x3

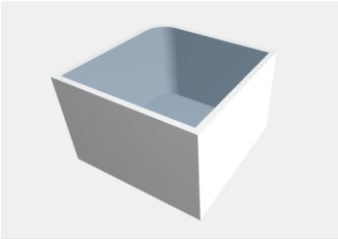


105 IfcSlab	*company statement*	*StairSlab-01 / 2x3*
001 GUIDs		
002 History	For reference model workflow, object History not supported at import in Vectorworks.	
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid		
040 Presentation		
040-1 Geometric Presentation		
040-2 Material Presentation		
070 Voiding		
070-3 Voiding Geometry SweptSolid		

106 IfcStair	*company statement*	*StairSlab-01 / 2x3*
001 GUIDs		
002 History	For reference model workflow, object History not supported at import in Vectorworks.	
010 Naming		
020 Placement		
020-1 Placement Relative		

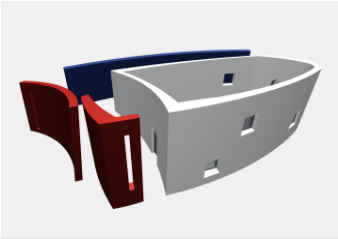
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit	■		
030-9 Geometry By Components	■		
040 Presentation			
040-1 Geometric Presentation	■		
050 CAD Layer	■		
100 Element Aggregation			
100-2 Element Decomposition	■		
120 Spatial Containment	■		
200 Material			
200-1 Single Material	■		
210 Property Set			
210-1 Property Set IFC Common	■		
General		*company statement*	*StairSlab-01 / 2x3*
_G4 Remarks	■		

UnitTest-01A / 2x3



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

Wall 01 / 2x3

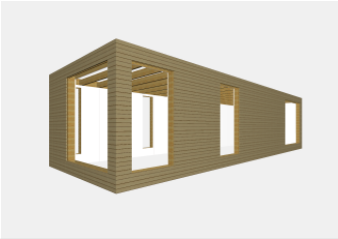


102 IfcWall	*company statement*	*Wall 01 / 2x3*
002 History	For reference model workflow, object History not supported at import in Vectorworks.	
010 Naming		
020 Placement		
020-2 Placement Relative		
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid		
030-6-2 Geometry Clipping		
030-6-5 Geometry Explicit		
040 Presentation		
040-1 Geometric Presentation		
040-2 Material Presentation		
070 Voiding		
070-1 Voiding Geometry Explicit		
070-3 Voiding Geometry SweptSolid		
080 Filling		
080-1 Has Filling		
080-1-1 Has Filling Door		
080-1-2 Has Filling Window		

Supported Restricted Not Supported

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

WallSlab 03 / 2x3



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

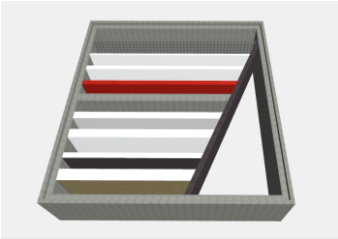
105 IfcSlab	*company statement*	*WallSlab 03 / 2x3*
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-9 Geometry By Components	■	
100 Element Aggregation		
100-2 Element Decomposition	■	

501 IfcProject	*company statement*	*WallSlab 03 / 2x3*
001 GUIDs	Vectorworks currently lacks User Interface elements to display the Project GUID	
002 History	Vectorworks currently lacks User Interface elements to display the Project 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	Vectorworks currently lacks User Interface elements to display the Project Name	
150 Spatial Aggregation		
150-2 Spatial Decomposition		
503 IfcBuilding	*company statement*	*WallSlab 03 / 2x3*
001 GUIDs	Vectorworks currently lacks User Interface elements to display the Building GUID	
002 History	Vectorworks currently lacks User Interface elements to display the Building History	
010 Naming	Vectorworks currently lacks User Interface elements to display the Building Name	
020 Placement		
020-1 Placement Absolute		
150 Spatial Aggregation		
150-1 Spatial Composition		
150-2 Spatial Decomposition		
504 IfcBuildingStorey	*company statement*	*WallSlab 03 / 2x3*
001 GUIDs	Vectorworks currently lacks User Interface elements to display the Storey GUID	
002 History	Vectorworks currently lacks User Interface elements to display the Storey	

Supported Restricted Not Supported

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

WallStandardCase 01A / 2x3

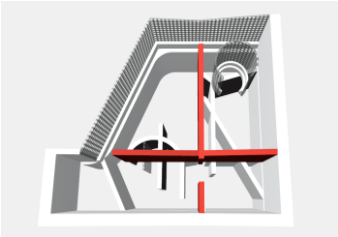


101 IfcWallStandardCase	*company statement*	*WallStandardCase 01A / 2x3*
010 Naming		
020 Placement		
020-2 Placement Relative		
030 Geometry		
030-2 Geometry Axis	For reference model workflow, Geometry Axis not supported at import in Vectorworks.	
030-6 Geometry Body		
030-6-1 Geometry SweptSolid		
030-6-2 Geometry Clipping		
040 Presentation		
040-1 Geometric Presentation		
040-2 Material Presentation		
050 CAD Layer		
110 Connectivity		
110-2 Connectivity Path	For reference model workflow, Connectivity Path not supported at import in Vectorworks.	
120 Spatial Containment		
200 Material		
200-4 Material Layer Usage		
210 Property Set		
210-3 Property Set User Defined		

Supported Restricted Not Supported

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

WallStandardCase 02A / 2x3

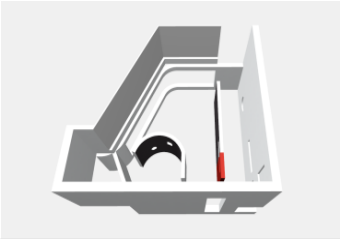


101 IfcWallStandardCase	*company statement*	*WallStandardCase 02A / 2x3*
010 Naming		
020 Placement		
020-2 Placement Relative		
030 Geometry		
030-2 Geometry Axis	For reference model workflow, Geometry Axis not supported at import in Vectorworks.	
030-6 Geometry Body		
030-6-1 Geometry SweptSolid		
030-6-2 Geometry Clipping		
050 CAD Layer		
110 Connectivity		
110-2 Connectivity Path	For reference model workflow, Connectivity Path not supported at import in Vectorworks.	
120 Spatial Containment		
200 Material		
200-4 Material Layer Usage		
210 Property Set		
210-1 Property Set IFC Common		

General	*company statement*	*WallStandardCase 02A / 2x3*
_G4 Remarks		

Supported Restricted Not Supported

WallStandardCase 04A / 2x3



101 IfcWallStandardCase	*company statement*	*WallStandardCase 04A / 2x3*
010 Naming		
030 Geometry		
030-2 Geometry Axis	For reference model workflow, Geometry Axis not supported at import in Vectorworks.	
030-6 Geometry Body		
030-6-1 Geometry SweptSolid		
070 Voiding		
070-1 Voiding Geometry SweptSolid		
070-2 Voiding Geometry Explicit		
070-3 Voiding Geometry Mapped		
120 Spatial Containment		
General	*company statement*	*WallStandardCase 04A / 2x3*
_G4 Remarks		

Window 01 / 2x3

301 IfcWindow	*company statement*	*Window 01 / 2x3*
001 GUIDs		
002 History	For reference model workflow, object History not supported at import in Vectorworks.	
010 Naming		
020 Placement		
020-2 Placement Relative		
030 Geometry		
030-5 Geometry Profile	For reference model workflow, Geometry Profile not supported at import in Vectorworks.	
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		

Supported Restricted Not Supported

210 Property Set		
210-1 Property Set IFC Common	Supported	
210-2 Property Set IFC any	Supported	
210-3 Property Set User Defined	Supported	
300 Type		
300-1 Type Geometry	Supported	Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
300-2 Type Naming	Supported	Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
300-3 Type Material	Supported	Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
300-5 Type Property Set	Supported	Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
300-6 Type Predefined Properties		
300-6-1 Type Predefined Properties Window	Not Supported	Types are not supported in Vectorworks, but the Type information is transferred to each instance of the objects.
General	*company statement*	*Window 01 / 2x3*
_G4 Remarks	Supported	