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Introduction

Revit LT 2014 and 2015 ship with IFC support. Users can download upgraded versions of both the exporter and the exporter UI from either the Autodesk Exchange Apps store or from SourceForge. In addition, the source code for the exporter and UI can also be downloaded from SourceForge. The certified version for Autodesk Revit LT 2014 is v3.11.0 for the exporter, and v2.11.0 for the UI; the certified version for Autodesk Revit LT 2015 is v15.1.0. The versions of the exporter and UI from the app store contain access to help documentation; additional help can be found at the Autodesk and SourceForge Wikis. Although there is currently no automatic update of the exporter and UI, all users that download the applications from the Autodesk Exchange Apps store will receive an update email with links to the current version(s).

SourceForge wiki: <https://sourceforge.net/p/ifcexporter/home/Home/>

Testlist

Name test	concepts total	manually checked		
				
BeamColumn 04 / 2x3	47	23	1	23
Beam_01 / 2x3	10	6	4	
Beam_02 / 2x3	12	9		3
Beam_03 / 2x3	6	2	3	1
CharsetTest-01A / 2x3	2	2		
Column 01 / 2x3	11	6	5	
Column_02 / 2x3	6	3		3
CoveringFurnishing-01 / 2x3	57	38	2	17
CurtainWall-01 / 2x3	29	20	4	5
Door 01 / 2x3	22	19	1	2
DoorWindow-02 / 2x3	11	9	2	
Grid 01 / 2x3	11	9	1	1
Member 01A / 2x3	10	9		1
Pile 01 / 2x3	19	11	1	7
RampRailing-01 / 2x3	28	22	4	2
RandomArch-X1 / 2x3	14	7		7
RandomArch-X2 / 2x3	10	8		2
RandomArch-X3 / 2x3	9	8	1	
RandomArch-X4 / 2x3	10	6		4
RandomArch-X5 / 2x3	13	13		
Roof 01 / 2x3	15	8	1	6
Roof 02 / 2x3	12	10		2
Site 01 / 2x3	14	12	1	1
Site 02 / 2x3	13	12	1	
Slab 01A / 2x3	9	7	2	
Slab 02A / 2x3	24	10	1	13



Supported



Restricted

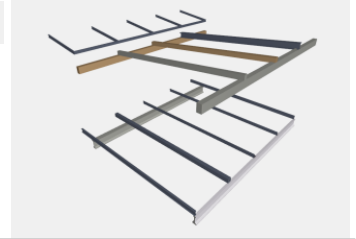


Not Supported




Name test	concepts total	manually checked		
		<div><div></div></div>	<div><div></div></div>	<div><div></div></div>
Space 01A / 2x3	12	10		2
StairSlab-01 / 2x3	19	16	2	1
UnitTest-01A / 2x3	3	3		
Wall 01 / 2x3	19	12	1	6
Wall 02 / 2x3	14	7	1	6
WallSlab 03 / 2x3	32	26	1	5
WallStandardCase 01A / 2x3	15	11	2	2
WallStandardCase 02A / 2x3	11	10	1	
WallStandardCase 03A / 2x3	9	8		1
WallStandardCase 04A / 2x3	8	6	1	1
Window 01 / 2x3	22	15	2	5

Concepts

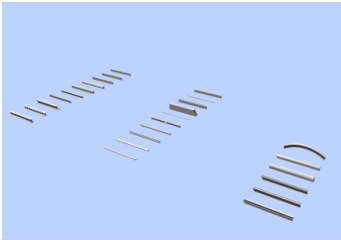
Beam_01 / 2x3



103 IfcBeam	company statement		Beam_01 / 2x3
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■	This test case required the use of specific IfcProfileDefs for the definitions of extrusions. Revit 2014 currently supports IfcArbitraryProfileDef, IfcShapeProfileDef, IfcRectangularProfileDef, IfcCircleProfileDef and IfcCircleHollowProfileDef on export.	
030-6-2 Geometry Clipping	■	Revit 2014 exports some geometries that are conceptually clipped extrusions as Breps.	
040 Presentation			
040-1 Geometric Presentation	■		
040-2 Material Presentation	■		
120 Spatial Containment	■		

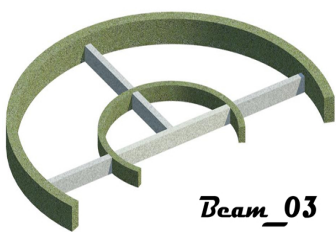
200 Material		
200-1 Single Material	 In this test case, there are instructions to create a material with two different colors. In Revit 2014, this becomes two materials with two unique names. The restriction comes from having the second name.	
210 Property Set		
210-1 Property Set IFC Common	 In this test case, we were required to create non-load bearing beams. In Revit 2014, all beams are load bearing.	
General	<i>company statement</i>	<i>Beam_01 / 2x3</i>
_G4 Remarks		

Beam_02 / 2x3



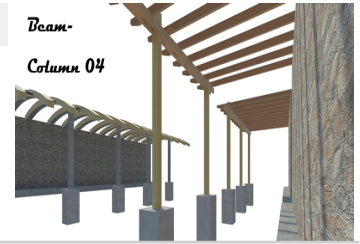
103 IfcBeam	company statement		Beam_02 / 2x3
010 Naming	■		
030 Geometry			
030-2 Geometry Axis	■		
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
030-6-2 Geometry Clipping	■		
030-6-5 Geometry Explicit	■		
050 CAD Layer	■		
070 Voiding			
070-1 Voiding Geometry Explicit	■	In this test case, the beams with openings were exported as BReps.	
070-2 Voiding Geometry Mapped	■	In this test case, the beams with openings were exported as BReps.	
070-3 Voiding Geometry SweptSolid	■	In this test case, the beams with openings were exported as BReps.	
120 Spatial Containment	■		
200 Material			
200-1 Single Material	■		
General	company statement		Beam_02 / 2x3
_G4 Remarks	■		

Beam_03 / 2x3


















103 IfcBeam	company statement		Beam_03 / 2x3
030 Geometry			
030-1 Geometry Box	Not Supported	This concept was optional for this test case, and not included in the Revit 2014 export.	
030-2 Geometry Axis	Restricted	Revit 2014 will occasionally place the beam axis of a sloped beam on the wrong plane. This is a limitation of the current export.	
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	Supported		
030-6-2 Geometry Clipping	Restricted	Revit 2014 exports some geometries that are conceptually clipped extrusions as Breps.	
300 Type			
300-5 Type Property Set	Supported		
General	company statement		Beam_03 / 2x3
_G4 Remarks	Restricted		








BeamColumn 04 / 2x3



103 IfcBeam		company statement		BeamColumn 04 / 2x3
001 GUIDs		■		
002 History		■		
010 Naming		■		
020 Placement				
020-2 Placement Relative		■		
030 Geometry				
030-6 Geometry Body				
030-6-1 Geometry SweptSolid		■		
030-6-9 Geometry Mapped		■	Revit 2014 exports beams as extrusions or BReps.	
070 Voiding				
070-1 Voiding Geometry Explicit		■	In this test case, the beams with openings were exported as BReps.	
070-2 Voiding Geometry Mapped		■	In this test case, the beams with openings were exported as BReps.	
070-3 Voiding Geometry SweptSolid		■	In this test case, the beams with openings were exported as BReps.	
130 Grouping				
130-1 Grouping General		■	This concept was optional for this test case, and not included in the Revit 2014 export.	
200 Material				
200-1 Single Material		■		

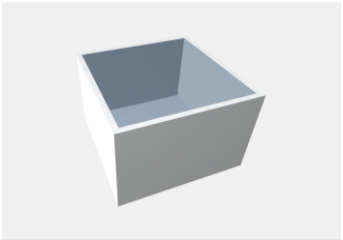
210 Property Set	
210-1 Property Set IFC Common	
210-3 Property Set User Defined	 Revit 2014 does not have the capability to create user-defined parameter groups, corresponding to IFC property sets. The Open Source IFC exporter allows for the programmatic creation of user-defined property sets. A user can add these sets to the base export
300 Type	
300-1 Type Geometry	 Revit 2014 does not currently export IfcBeamType.
300-2 Type Naming	 Revit 2014 does not currently export IfcBeamType.
300-3 Type Material	 Revit 2014 does not currently export IfcBeamType.
300-5 Type Property Set	 Revit 2014 does not currently export IfcBeamType.
104 IfcColumn	<i>company statement</i> BeamColumn 04 / 2x3
001 GUIDs	
002 History	
010 Naming	
020 Placement	
020-2 Placement Relative	
030 Geometry	
030-6 Geometry Body	
030-6-1 Geometry SweptSolid	
030-6-9 Geometry Mapped	
070 Voiding	
070-1 Voiding Geometry Explicit	 The columns with openings in this test were exported as BReps or with boolean clipping.
070-2 Voiding Geometry Mapped	 The columns with openings in this test were exported as BReps or with boolean clipping.
070-3 Voiding Geometry SweptSolid	 The columns with openings in this test were exported as BReps or with boolean clipping.

130 Grouping	
130-1 Grouping General	■ This concept was optional and was not included in the 2014 LT export.
200 Material	
200-1 Single Material	■
210 Property Set	
210-2 Property Set IFC any	■
300 Type	
300-1 Type Geometry	■ This concept was optional for this test case, and not included in the Revit 2013 export.
300-2 Type Naming	■ This concept was optional for this test case, and not included in the Revit 2013 export.
300-3 Type Material	■
300-5 Type Property Set	■ This concept was optional for this test case, and not included in the Revit 2013 export.
403 IfcFooting	company statement BeamColumn 04 / 2x3
001 GUIDs	■
002 History	■
010 Naming	■
020 Placement	
020-1 Placement Relative	■
030 Geometry	
030-6 Geometry Body	
030-6-1 Geometry SweptSolid	■
030-6-9 Geometry Mapped	■ Revit 2014LT exports footings as BReps or extrusions.
130 Grouping	
130-1 Grouping General	■ This concept was optional and was not included in the Revit 2014LT export.

200 Material	
200-1 Single Material	
210 Property Set	
210-2 Property Set IFC any	 Revit 2014 does not currently export any common property sets for IfcFootings. Revit 2013 does export internal property sets, but that option was unused in this test case.
300 Type	
300-1 Type Geometry	 This concept was optional and was not included in the Revit 2014LT export.
300-2 Type Naming	 This concept was optional and was not included in the Revit 2014LT export.
300-3 Type Material	 This concept was optional and was not included in the Revit 2014LT export.
300-5 Type Property Set	 This concept was optional and was not included in the Revit 2014LT export.
General	<i>company statement</i>
_G4 Remarks	

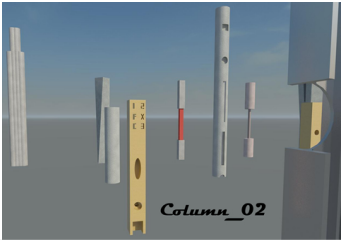
BeamColumn 04 / 2x3

CharsetTest-01A / 2x3



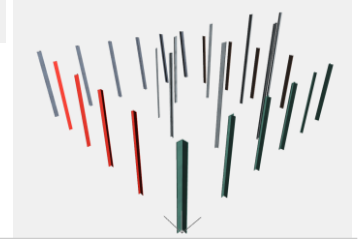
General	company statement		CharsetTest-01A / 2x3
_G1 Character sets		■	
_G4 Remarks		■	

Column_02 / 2x3



104 IfcColumn	company statement		Column_02 / 2x3
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	<div></div>		
030-6-5 Geometry Explicit	<div></div>		
070 Voiding			
070-1 Voiding Geometry Explicit	<div></div>	RevitLT 2014 exports some geometries that have complex openings as Breps.	
070-2 Voiding Geometry Mapped	<div></div>	RevitLT 2014 exports some geometries that have complex openings as Breps.	
070-3 Voiding Geometry SweptSolid	<div></div>	RevitLT 2014 exports some geometries that have complex openings as Breps.	
General	company statement		Column_02 / 2x3
_G4 Remarks	<div></div>		

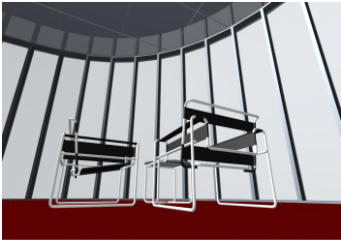
Column 01 / 2x3



104 IfcColumn	company statement		Column 01 / 2x3
010 Naming	■		
020 Placement			
020-2 Placement Relative	■	RevitLT 2014 internally stores all coordinates relative to a global origin. On export, we create a local placement closer to the geometry and place the geometry in that local coordinate system. This is valid for all Brep representations and many extrusion representations, but does not extend to some mapped representations. This is a limitation of the current export.	
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■	RevitLT 2014 exports some geometries that are conceptually clipped extrusions as Breps.	
030-6-2 Geometry Clipping	■	RevitLT 2014 exports some geometries that are conceptually clipped extrusions as Breps.	
040 Presentation			
040-1 Geometric Presentation	■		
040-2 Material Presentation	■		
050 CAD Layer	■		
120 Spatial Containment	■		
200 Material			
200-1 Single Material	■	In this test case, there are instructions to create a material with two different colors. In RevitLT 2014, this becomes two materials with two unique names. The restriction comes from having the second name.	

210 Property Set	
210-1 Property Set IFC Common	<div></div> In this test case, we were required to create non-load bearing steel columns. In RevitLT 2014, these columns are considered load bearing.
General	<i>company statement</i> Column 01 / 2x3
_G4 Remarks	<div></div>














CoveringFurnishing-01 / 2x3












210 IfcFlowTerminal	company statement		CoveringFurnishing-01 / 2x3
001 GUIDs	■		
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit	■	All IfcFlowTerminals in this test were exported as mapped representations.	
030-6-9 Geometry Mapped	■		
040 Presentation			
040-1 Geometric Presentation	■		
050 CAD Layer	■		
120 Spatial Containment	■		

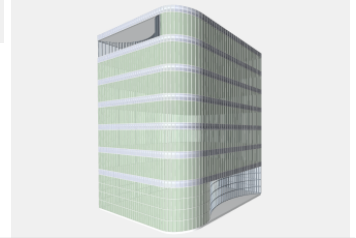
210 Property Set		
210-1 Property Set IFC Common	■	RevitLT 2014 supports Pset_FlowTerminalAirTerminal, but the information for this property set was not included in his test case.
210-6 Property Set IFC any	■	RevitLT 2014 supports Pset_FlowTerminalAirTerminal, but the information for this property set was not included in his test case.
210-9 Property Set User Defined	■	RevitLT 2014 does not have the capability to create user-defined parameter groups, corresponding to IFC property sets. The Open Source IFC exporter allows for the programmatic creation of user-defined property sets. A user can add these sets to the base exporter, or they can create their own exporter based on the open source version.
300 Type		
300-1 Type Geometry	■	
300-2 Type Naming	■	
300-3 Type Material	■	
300-5 Type Property Set	■	In this test case, no property sets were included for IfcFlowTerminals.
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	■	RevitLT 2014 exports ceilings as extrusions or Breps.
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	■ RevitLT 2014 does not export IfcCoveringType.
300-2 Type Naming	■ RevitLT 2014 does not export IfcCoveringType.
300-3 Type Material	■ RevitLT 2014 does not export IfcCoveringType.
300-5 Type Property Set	■ RevitLT 2014 does not export IfcCoveringType.
304 IfcFurnishingElement	<i>company statement</i> CoveringFurnishing-01 / 2x3
001 GUIDs	■
010 Naming	■
020 Placement	
020-2 Placement Relative	■
030 Geometry	
030-6 Geometry Body	
030-6-5 Geometry Explicit	■ All IfcFurnishingElements in this test were exported as mapped representations.
030-6-9 Geometry Mapped	■
040 Presentation	
040-1 Geometric Presentation	■











050 CAD Layer		
120 Spatial Containment		
200 Material		
200-1 Single Material		RevitLT 2014 exports materials using IfcMaterialList.
200-5 Material List		In this test case, some of the materials were incorrectly created in the test file.
210 Property Set		
210-6 Property Set IFC any		RevitLT 2014 supports Pset_ManufacturerTypeInfoInformation, but the information for this property set was not included in his test case.
210-9 Property Set User Defined		RevitLT 2014 does not have the capability to create user-defined parameter groups, corresponding to IFC property sets. The Open Source IFC exporter allows for the programmatic creation of user-defined property sets. A user can add these sets to the base exporter, or they can create their own exporter based on the open source version.
300 Type		
300-1 Type Geometry		
300-2 Type Naming		
300-3 Type Material		In this test case, there are instructions to create a material with two different colors. In RevitLT 2014, this becomes two materials with two unique names. The restriction comes from having the second name.
300-5 Type Property Set		In this test case, no type property sets were included for IfcFurnishingElement.
505 IfcSpace	company statement	
030 Geometry		
030-3 Geometry FootPrint		RevitLT 2014 does not export the IfcSpace footprint.
030-6 Geometry Body		
030-6-1 Geometry SweptSolid		
120 Spatial Containment		

130 Grouping		
130-3 Grouping to Zones		
230 Classification		This concept was optional for this test case, and not included in the RevitLT 2014 export.
508 IfcZone	company statement	
	CoveringFurnishing-01 / 2x3	
001 GUIDs		
002 History		
010 Naming		
130 Grouping		
130-5 Is Group		
210 Property Set		
210-1 Property Set IFC Common		RevitLT 2014 supports Pset_ZoneCommon, but the information for this property set was not included in his test case.
210-9 Property Set User Defined		RevitLT 2014 does not have the capability to create user-defined parameter groups, corresponding to IFC property sets. The Open Source IFC exporter allows for the programmatic creation of user-defined property sets. A user can add these sets to the base exporter, or they can create their own exporter based on the open source version.
General	company statement	
	CoveringFurnishing-01 / 2x3	
_G4 Remarks		

CurtainWall-01 / 2x3

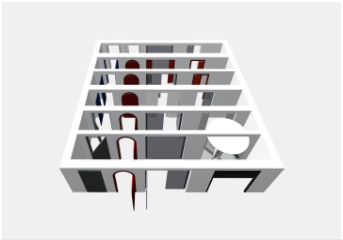


109 IfcCurtainWall	company statement		CurtainWall-01 / 2x3
001 GUIDs		■	
002 History		■	
010 Naming		■	
020 Placement			
020-1 Placement Relative		■	The facade-3.1 is related to the 7th storey, but has a negative local placement z = -28.2 Each member of the curtain wall has a local placement with z = +31.6. This is due to the way the curtain walls were created – as face based systems on a mass, which is not actually level based.
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit		■	In this test case, there are two places where default panels had to be used due to size and shape of the openings. This is a limitation of how the curtain wall was created in RevitLT 2014.
030-9 Geometry By Components		■	
040 Presentation			
040-1 Geometric Presentation		■	
050 CAD Layer		■	
100 Element Aggregation			
100-2 Element Decomposition		■	
120 Spatial Containment		■	In this test case, the test instructions state that one of the curtain walls should be relative to Level 2. However, the curtain wall extends significantly below that level. As such, Revit relates it to the level below that. Since this is different than the test instructions, this is marked as restricted.

<p>200 Material</p> <p>200-1 Single Material</p> <p>200-5 Material List</p>	<p></p> <p> In this test case, there are instructions to create a material with two different colors. In RevitLT 2014, this becomes two materials with two unique names. The restriction comes from having the second name.</p>
<p>210 Property Set</p> <p>210-1 Property Set IFC Common</p> <p>210-3 Property Set User Defined</p>	<p></p> <p> RevitLT 2014 does not have the capability to create user-defined parameter groups, corresponding to IFC property sets. The Open Source IFC exporter allows for the programmatic creation of user-defined property sets. A user can add these sets to the base exporter, or they can create their own exporter based on the open source version.</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> Curtain wall type geometry is an optional item and was not included in the export.</p> <p> Export of Curtain wall type materials was an optional item and was not included in the export.</p> <p> Export of Curtain wall type materials was an optional item and was not included in the export.</p> <p> Export of curtain wall type property sets was an optional item and was not included in the export.</p>
<p>501 IfcProject</p>	<p><i>company statement</i></p> <p><i>CurtainWall-01 / 2x3</i></p>
<p>010 Naming</p>	<p></p>
<p>502 IfcSite</p>	<p><i>company statement</i></p> <p><i>CurtainWall-01 / 2x3</i></p>
<p>010 Naming</p>	<p></p>

060 Location		
060-1 Geographic Location	■	
060-2 Address	■	
503 IfcBuilding	company statement	CurtainWall-01 / 2x3
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
504 IfcBuildingStorey	company statement	CurtainWall-01 / 2x3
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
060 Location		
060-4 Storey Elevation	■	
210 Property Set		
210-1 Property Set IFC Common	■	
General	company statement	CurtainWall-01 / 2x3
_G4 Remarks	■	There are two places where default panels had to be used due to size and shape of the openings.

Door 01 / 2x3



302 IfcDoor	company statement		Door 01 / 2x3
001 GUIDs		■	
002 History		■	
010 Naming		■	
020 Placement			
020-2 Placement Relative		■	
030 Geometry			
030-5 Geometry Profile	■	RevitLT 2014 exports Footprint information for family instances. It does not export 2D elevation profiles.	
030-6 Geometry Body			
030-6-5 Geometry Explicit		■	
030-6-9 Geometry Mapped		■	
040 Presentation			
040-1 Geometric Presentation		■	
050 CAD Layer		■	
080 Filling			
080-2 Is Filling		■	
120 Spatial Containment		■	

200 Material	
200-1 Single Material	■
200-5 Material List	■
210 Property Set	
210-1 Property Set IFC Common	■
210-2 Property Set IFC any	■
210-3 Property Set User Defined	■ RevitLT 2014 does not have the capability to create user-defined parameter groups, corresponding to IFC property sets. The Open Source IFC exporter allows for the programmatic creation of user-defined property sets. A user can add these sets to the base exporter, or they can create their own exporter based on the open source version.
300 Type	
300-1 Type Geometry	■
300-2 Type Naming	■
300-3 Type Material	■
300-5 Type Property Set	■
300-6 Type Predefined Properties	
300-6-1 Type Predefined Properties Door	■
General	company statement
_G4 Remarks	■

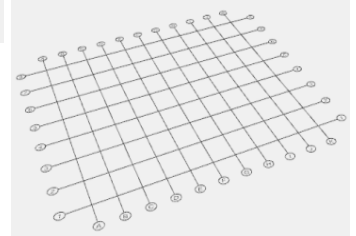
DoorWindow-02 / 2x3



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	■	Due to the window's location in the curved wall, revit makes some small adjustments which deviate slightly from the instructions for Window 2. For example, the horizontal placement of the window in the wall. Window frames could not be modeled precisely to specification.	
080 Filling			
080-2 Is Filling	■		
300 Type			
300-1 Type Geometry	■		
302 IfcDoor	company statement		DoorWindow-02 / 2x3
001 GUIDs	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit	■	The door position cannot be adjusted in the straight and curved walls in exactly the way the instructions require.	

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

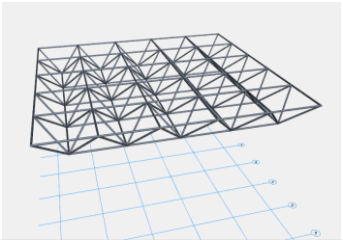
Grid 01 / 2x3



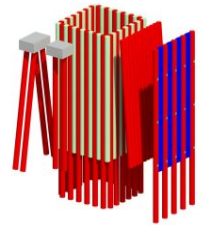
509 IfcGrid	company statement		Grid 01 / 2x3
001 GUIDs	■		
002 History	■		
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-3 Geometry FootPrint	■		
040 Presentation			
040-1 Geometric Presentation	■		
050 CAD Layer	■		
120 Spatial Containment	■		
210 Property Set			
210-3 Property Set User Defined	■	RevitLT 2014 does not have the capability to create user-defined parameter groups, corresponding to IFC property sets. The Open Source IFC exporter allows for the programmatic creation of user-defined property sets. A user can add these sets to the base exporter, or they can create their own exporter based on the open source version.	
270 Grid Usage			
270-1 Grid Axes	■	In this test case, the naming of the Grid axes is slightly different from those given in the instructions.	
General	company statement		Grid 01 / 2x3

_G4 Remarks	
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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	■	RevitLT 2014 exports some geometries that are conceptually clipped extrusions as Breps.	
040 Presentation			
040-1 Geometric Presentation	■		
040-2 Material Presentation	■		
120 Spatial Containment	■		
200 Material			
200-1 Single Material	■		
300 Type			
300-1 Type Geometry	■		
General	company statement		Member 01A / 2x3
_G4 Remarks	■		

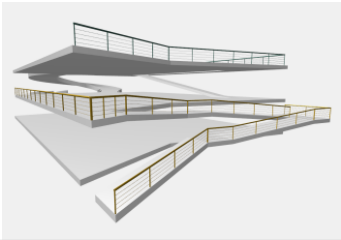


Pile 01 / 2x3

404 IfcPile	company statement		Pile 01 / 2x3
001 GUIDs	■		
002 History	■		
010 Naming	■		
020 Placement			
020-1 Placement Relative	■		
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
030-6-2 Geometry Clipping	■	RevitLT 2014 exports piles as extrusions or Breps.	
030-6-9 Geometry Mapped	■	RevitLT 2014 exports piles as extrusions or Breps.	
040 Presentation			
040-1 Geometric Presentation	■		
040-2 Material Presentation	■		
050 CAD Layer	■		
070 Voiding			
070-3 Voiding Geometry SweptSolid	■	In this test case, the piles are exported as Breps. As such, the pile is not supposed to have an IfcOpeningElement associated with it.	
100 Element Aggregation			
100-2 Element Decomposition	■	RevitLT 2014 exports piles as extrusions or Breps.	

120 Spatial Containment		
200 Material		
200-1 Single Material		
210 Property Set		
210-3 Property Set User Defined		RevitLT 2014 does not have the capability to create user-defined parameter groups, corresponding to IFC property sets. The Open Source IFC exporter allows for the programmatic creation of user-defined property sets. A user can add these sets to the base export
300 Type		
300-1 Type Geometry		As there is no IfcPileType in IFC2x3, RevitLT 2014 does not export type information for piles.
300-3 Type Material		As there is no IfcPileType in IFC2x3, RevitLT 2014 does not export type information for piles.
300-5 Type Property Set		As there is no IfcPileType in IFC2x3, RevitLT 2014 does not export type information for piles.
General		<i>company statement</i>
_G4 Remarks		

RampRailing-01 / 2x3

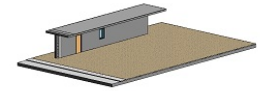


107 IfcRamp	company statement		RampRailing-01 / 2x3
001 GUIDs		■	
002 History		■	
010 Naming		■	
020 Placement			
020-1 Placement Relative		■	
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit		■	
030-9 Geometry By Components		■	
040 Presentation			
040-1 Geometric Presentation		■	
050 CAD Layer		■	
100 Element Aggregation			
100-2 Element Decomposition		■	
120 Spatial Containment		■	In this test case, the ramps are all exported relative to Level 1. This is because of the way they were created.
200 Material			
200-1 Single Material		■	

210 Property Set	
210-1 Property Set IFC Common	 The RevitLT 2014 IFC exporter does not currently export the ramp "Slope" parameter.
210-3 Property Set User Defined	
108 IfcRailing	<i>company statement</i> RampRailing-01 / 2x3
001 GUIDs	
002 History	
010 Naming	
020 Placement	
020-2 Placement Relative	 All the railings except railing_PL3 are relative to level 1 (they are associated with ramps.)
030 Geometry	
030-6 Geometry Body	
030-6-1 Geometry SweptSolid	 In this test case, all of the ramps are exported as Breps.
030-6-5 Geometry Explicit	
030-6-9 Geometry Mapped	 In this test case, all of the ramps are exported as Breps.
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	<div></div> The RevitLT 2014 IFC exporter does not currently export the Diameter parameter for round railings.
210-3 Property Set User Defined	<div></div>
General	<i>company statement</i> <div></div>
_G4 Remarks	<div></div>

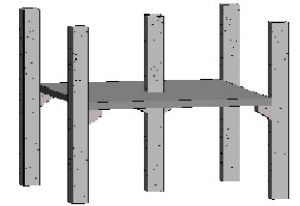
RandomArch-X1 / 2x3



102 IfcWall	company statement		RandomArch-X1 / 2x3
070 Voiding			
070-3 Voiding Geometry SweptSolid	■	RevitLT 2014 exports building element parts as BReps already modeled with openings, so Revit does not export an IfcOpeningElement.	
080 Filling			
080-1 Has Filling			
080-1-1 Has Filling Door	■	RevitLT 2014 only relates hosted doors and windows to walls. In this case the building element parts are exported as BReps, so Revit associates the door and window directly to the level.	
080-1-2 Has Filling Window	■	RevitLT 2014 only relates hosted doors and windows to walls. In this case the building element parts are exported as BReps, so Revit associates the door and window directly to the level.	
100 Element Aggregation			
100-2 Element Decomposition	■		
200 Material			
200-1 Single Material	■	According #CV-2x3-120, material information for decomposed elements shall only be given at the element part level.	
200-3 Material Layer Set	■	According #CV-2x3-120, material information for decomposed elements shall only be given at the element part level.	
210 Property Set			
210-1 Property Set IFC Common	■		
105 IfcSlab	company statement		RandomArch-X1 / 2x3
100 Element Aggregation			
100-2 Element Decomposition	■		

200 Material 200-1 Single Material	Not Supported	According #CV-2x3-120, material information for decomposed elements shall only be given at the element part level.
210 Property Set 210-1 Property Set IFC Common	Supported	
110 IfcRoof	company statement RandomArch-X1 / 2x3	
100 Element Aggregation 100-2 Element Decomposition	Supported	
200 Material 200-1 Single Material	Not Supported	According #CV-2x3-120, material information for decomposed elements shall only be given at the element part level.
210 Property Set 210-1 Property Set IFC Common	Supported	
General	company statement RandomArch-X1 / 2x3	
_G4 Remarks	Supported	

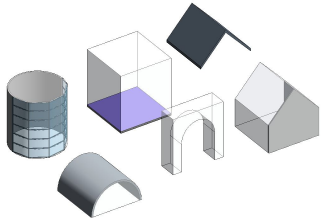
RandomArch-X2 / 2x3



102 IfcWall	company statement	RandomArch-X2 / 2x3
104 IfcColumn	company statement	RandomArch-X2 / 2x3
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-1 Geometry Box	■	
105 IfcSlab	company statement	RandomArch-X2 / 2x3
020 Placement		
020-2 Placement Relative	■	
408 IfcElementAssembly	company statement	RandomArch-X2 / 2x3
001 GUIDs	■	
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-1 Geometry Box	■	This concept was optional for this test case, and not included in the RevitLT 2014 export.
030-2 Geometry Axis	■	This concept was optional for this test case, and not included in the RevitLT 2014 export.
100 Element Aggregation		
100-1 Element Composition	■	

General	company statement	RandomArch-X2 / 2x3
_G4 Remarks		

RandomArch-X3 / 2x3



101 IfcWallStandardCase	company statement		RandomArch-X3 / 2x3
020 Placement			
020-2 Placement Relative	■		
102 IfcWall	company statement		RandomArch-X3 / 2x3
020 Placement			
020-2 Placement Relative	■		
105 IfcSlab	company statement		RandomArch-X3 / 2x3
010 Naming	■		
020 Placement			
020-2 Placement Relative	■	In this test case, one IfcSlab has a local origin that is not close to the geometry.	
110 IfcRoof	company statement		RandomArch-X3 / 2x3
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
111 IfcBuildingElementProxy	company statement		RandomArch-X3 / 2x3
010 Naming	■		
503 IfcBuilding	company statement		RandomArch-X3 / 2x3
010 Naming	■		
General	company statement		RandomArch-X3 / 2x3
_G4 Remarks	■		

RandomArch-X4 / 2x3

109 IfcCurtainWall	company statement		RandomArch-X4 / 2x3
001 GUIDs			
002 History			
010 Naming			
020 Placement			
020-1 Placement Relative			
030 Geometry			
030-6 Geometry Body			
030-6-9 Geometry Mapped		In this test case, all of the curtain walls are containers, and do not have their own geometry or materials. This is as designed.	
100 Element Aggregation			
100-1 Element Composition		This concept was optional for this test case, and not modelled.	
100-2 Element Decomposition			
200 Material			
200-1 Single Material		In this test case, all of the curtain walls are containers, and do not have their own geometry or materials. This is as designed.	
302 IfcDoor	company statement		RandomArch-X4 / 2x3
080 Filling			
080-2 Is Filling		In this test case, the door is a panel of the curtain wall, and does not cut anything. As such, it does not have the IfcRelFillsElement relation. This is as designed.	

General	company statement	RandomArch-X4 / 2x3
_G4 Remarks		

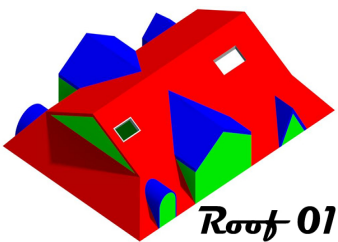
RandomArch-X5 / 2x3



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

_G4 Remarks	
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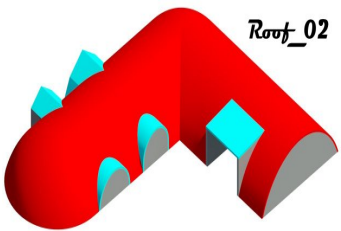
Roof 01 / 2x3



101 IfcWallStandardCase	company statement		Roof 01 / 2x3
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	<div></div>		
030-6-2 Geometry Clipping	<div></div>		
105 IfcSlab	company statement		Roof 01 / 2x3
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	<div></div>	In this test case, the roofs are exported as Breps, not as a collection of IfcSlabs.	
030-6-2 Geometry Clipping	<div></div>	In this test case, the roofs are exported as Breps, not as a collection of IfcSlabs.	
030-6-9 Geometry Mapped	<div></div>	In this test case, the roofs are exported as Breps, not as a collection of IfcSlabs.	
070 Voiding			
070-3 Voiding Geometry SweptSolid	<div></div>	In this test case, the roofs are exported as Breps, not as a collection of IfcSlabs.	
080 Filling			
080-1 Has Filling			
080-1-2 Has Filling Window	<div></div>	In this test case, the roofs are exported as Breps, not as a collection of IfcSlabs. As such, the window is not supposed to have an IfcOpeningElement associated with it.	
200 Material			
200-2 Material Layer Set	<div></div>		

110 IfcRoof	company statement		Roof 01 / 2x3
030 Geometry			
030-1 Geometry Box	<div></div>	This concept was optional for this test case, and not included in the RevitLT 2014 export.	
040 Presentation			
040-1 Geometric Presentation	<div></div>		
040-2 Material Presentation	<div></div>		
100 Element Aggregation			
100-2 Element Decomposition	<div></div>	In this test case, the roofs are exported as Breps, not as a collection of IfcSlabs.	
120 Spatial Containment	<div></div>		
200 Material			
200-1 Single Material	<div></div>		
General	company statement		Roof 01 / 2x3
_G4 Remarks	<div></div>		

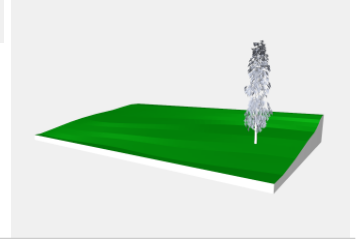
Roof 02 / 2x3



101 IfcWallStandardCase	company statement		Roof 02 / 2x3
010 Naming	■		
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
030-6-2 Geometry Clipping	■		
050 CAD Layer	■		
110 IfcRoof	company statement		Roof 02 / 2x3
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit	■		
050 CAD Layer	■		
100 Element Aggregation			
100-2 Element Decomposition	■	In this test case, the roofs are exported as Breps, not as a collection of IfcSlabs.	

210 Property Set		
210-1 Property Set IFC Common	■	
210-3 Property Set User Defined	■	RevitLT 2014 does not have the capability to create user-defined parameter groups, corresponding to IFC property sets. The Open Source IFC exporter allows for the programmatic creation of user-defined property sets. A user can add these sets to the base export
General		<i>company statement</i>
_G4 Remarks	■	

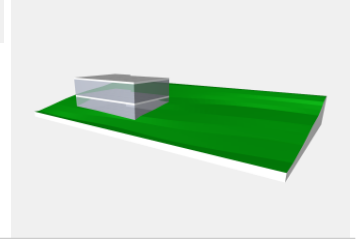
Site 01 / 2x3



502 IfcSite	company statement		Site 01 / 2x3
001 GUIDs	■		
002 History	■		
010 Naming	■		
020 Placement			
020-1 Placement Absolute	■		
030 Geometry			
030-1 Geometry Box	■	This concept was optional for this test case, and not included in the RevitLT 2014 export.	
030-3 Geometry FootPrint	■		
030-6 Geometry Body			
030-6-5 Geometry Explicit	■		
040 Presentation			
040-1 Geometric Presentation	■		
050 CAD Layer	■		
060 Location			
060-1 Geographic Location	■		
060-2 Address	■		
120 Spatial Containment	■	In this case, a tree was intended to be directly contained in the IfcSite. However, in RevitLT 2014, the exporter indirectly contains it via the IfcBuilding and the IfcBuildingStorey.	

210 Property Set		
210-1 Property Set IFC Common	<div></div>	
General	company statement	Site 01 / 2x3
_G4 Remarks	<div></div>	

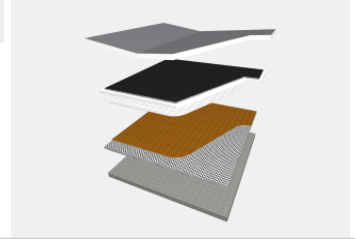
Site 02 / 2x3



502 IfcSite	company statement		Site 02 / 2x3
010 Naming	■		
020 Placement			
020-1 Placement Absolute	■		
030 Geometry			
030-3 Geometry FootPrint	■		
030-6 Geometry Body			
030-6-5 Geometry Explicit	■		
150 Spatial Aggregation			
150-1 Spatial Composition	■		
150-2 Spatial Decomposition	■		
210 Property Set			
210-9 Property Set User Defined	■	RevitLT 2014 does not have the capability to create user-defined parameter groups, corresponding to IFC property sets. The Open Source IFC exporter allows for the programmatic creation of user-defined property sets. A user can add these sets to the base export	
503 IfcBuilding	company statement		Site 02 / 2x3
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		

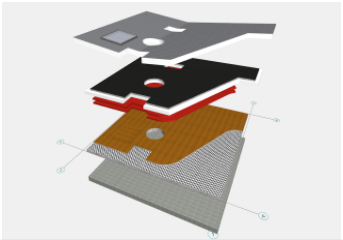
150 Spatial Aggregation	
150-1 Spatial Composition	■
150-2 Spatial Decomposition	■
210 Property Set	
210-1 Property Set IFC Common	■
General	company statement
_G4 Remarks	■

Slab 01A / 2x3
















105 IfcSlab	company statement		Slab 01A / 2x3
010 Naming		■	
020 Placement			
020-2 Placement Relative		■	
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid		■	
030-6-2 Geometry Clipping		■	RevitLT 2014 exports some geometries that are conceptually clipped extrusions as Breps.
050 CAD Layer		■	
200 Material			
200-2 Material Layer Set		■	For most entities with BRep representations, we use IfcMaterialList for the material representations.
200-3 Material Layer Usage		■	
210 Property Set			
210-1 Property Set IFC Common		■	
General	company statement		Slab 01A / 2x3
_G4 Remarks		■	

Slab 02A / 2x3

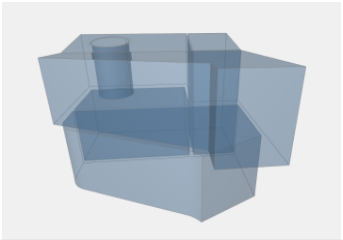


105 IfcSlab	company statement		Slab 02A / 2x3
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-1 Geometry Box	■	This concept was optional for this test case, and not included in the RevitLT 2014 export.	
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
030-6-2 Geometry Clipping	■	RevitLT 2014 exports some geometries that are conceptually clipped extrusions as Breps.	
030-6-5 Geometry Explicit	■		
030-6-9 Geometry Mapped	■	This concept was optional for this test case, and not included in the RevitLT 2014 export.	
070 Voiding			
070-1 Voiding Geometry Explicit	■	This concept was optional for this test case, and not included in the RevitLT 2014 export.	
070-2 Voiding Geometry Mapped	■	RevitLT 2014 exports openings as extrusions or Breps.	
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> RevitLT 2014 does not support doors in floors.</p> <p> RevitLT 2014 does not support windows in floors.</p>
<p>120 Spatial Containment</p>	<p></p>
<p>130 Grouping</p> <p>130-1 Grouping General</p>	<p> This concept was optional for this test case, and not included in the RevitLT 2014 export.</p>
<p>200 Material</p> <p>200-1 Single Material</p> <p>200-2 Material Layer Set</p>	<p></p> <p></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> RevitLT 2014 cannot determine the "Pitch Angle" property of Pset_SlabCommon.</p> <p></p> <p> RevitLT 2014 does not have the capability to create user-defined parameter groups, corresponding to IFC property sets. The Open Source IFC exporter allows for the programmatic creation of user-defined property sets. A user can add these sets to the base exporter, or they can create their own exporter based on the open source version.</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> RevitLT 2014 does not currently export IfcSlabType.</p> <p> RevitLT 2014 does not currently export IfcSlabType.</p> <p> RevitLT 2014 does not currently export IfcSlabType.</p> <p> RevitLT 2014 does not currently export IfcSlabType.</p>

General	company statement	Slab 02A / 2x3
_G4 Remarks		

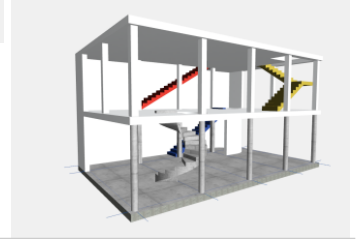
Space 01A / 2x3



505 IfcSpace	company statement		Space 01A / 2x3
001 GUIDs	■		
002 History	■		
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
030-6-2 Geometry Clipping	■	RevitLT 2014 exports space geometry as extrusions or Breps.	
040 Presentation			
040-1 Geometric Presentation	■	Spaces, derived from RevitLT 2014 rooms, do not have color or material information assigned to them.	
050 CAD Layer	■		
150 Spatial Aggregation			
150-1 Spatial Composition	■		
210 Property Set			
210-1 Property Set IFC Common	■		
210-6 Property Set IFC any	■		
General	company statement		Space 01A / 2x3

_G4 Remarks	
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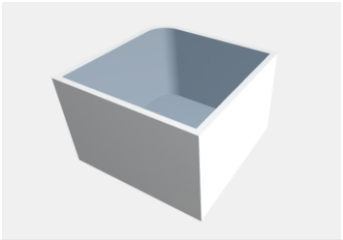
StairSlab-01 / 2x3



105 IfcSlab	company statement		StairSlab-01 / 2x3
001 GUIDs	■		
002 History	■		
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
040 Presentation			
040-1 Geometric Presentation	■		
040-2 Material Presentation	■	In this test case, there are instructions to create a material with two different colors. In RevitLT 2014, this becomes two materials with two unique names. The restriction comes from having the second name.	
070 Voiding			
070-3 Voiding Geometry SweptSolid	■		
106 IfcStair	company statement		StairSlab-01 / 2x3
001 GUIDs	■		
002 History	■		
010 Naming	■		
020 Placement			
020-1 Placement Relative	■		

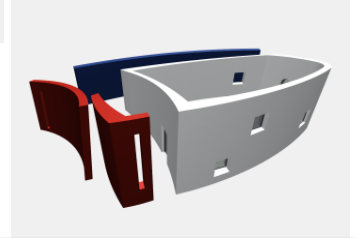
030 Geometry	
030-6 Geometry Body	
030-6-5 Geometry Explicit	<div></div> In this test case, the stairs are correctly exported as a container of stair flights and landings. As such, the stair doesn't have any native geometry.
030-9 Geometry By Components	<div></div>
040 Presentation	
040-1 Geometric Presentation	<div></div>
050 CAD Layer	<div></div>
100 Element Aggregation	
100-2 Element Decomposition	<div></div>
120 Spatial Containment	<div></div>
200 Material	
200-1 Single Material	<div></div> In this test case, there are instructions to create a material with two different colors. In RevitLT 2014, this becomes two materials with two unique names. The restriction comes from having the second name.
210 Property Set	
210-1 Property Set IFC Common	<div></div>
General	company statement
_G4 Remarks	<div></div>

UnitTest-01A / 2x3



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

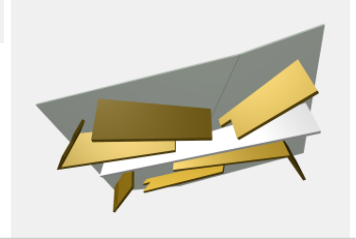
Wall 01 / 2x3



102 IfcWall	company statement		Wall 01 / 2x3
002 History		■	
010 Naming		■	
020 Placement			
020-2 Placement Relative		■	
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■	The RevitLT 2014 IFC exporter gets the wall geometry via the API, which is represented as a BRep. In some cases, it is not able to recreate an extrusion with clippings, and exports the BRep instead.	
030-6-2 Geometry Clipping	■	The RevitLT 2014 IFC exporter gets the wall geometry via the API, which is represented as a BRep. In some cases, it is not able to recreate an extrusion with clippings, and exports the BRep instead.	
030-6-5 Geometry Explicit		■	
040 Presentation			
040-1 Geometric Presentation		■	
040-2 Material Presentation		■	
070 Voiding			
070-1 Voiding Geometry Explicit	■	RevitLT 2014 exports openings as extrusions or Breps.	
070-3 Voiding Geometry SweptSolid		■	

080 Filling		
080-1 Has Filling		
080-1-1 Has Filling Door	■	In this test case, the walls are exported as BReps. As such, there is no associativity between the walls and their doors.
080-1-2 Has Filling Window	■	In this test case, the walls are exported as BReps. As such, there is no associativity between the walls and their windows.
200 Material		
200-1 Single Material	■	In this test case, there are instructions to create a material with two different colors. In RevitLT 2014, this becomes two materials with two unique names. The restriction comes from having the second name.
210 Property Set		
210-1 Property Set IFC Common	■	
300 Type		
300-3 Type Material	■	
300-5 Type Property Set	■	This concept was optional for this test case, and not included in the RevitLT 2014 export.
301 IfcWindow		<i>company statement</i> Wall 01 / 2x3
020 Placement		
020-2 Placement Relative	■	
302 IfcDoor		<i>company statement</i> Wall 01 / 2x3
020 Placement		
020-2 Placement Relative	■	
General		<i>company statement</i> Wall 01 / 2x3
_G4 Remarks	■	

Wall 02 / 2x3

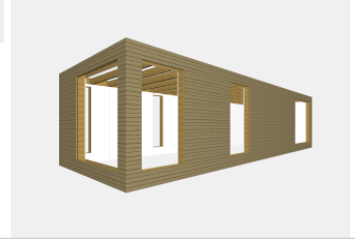


102 IfcWall	company statement		Wall 02 / 2x3
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-2 Geometry Axis	■	Revit 2014 does not generally export the geometry axis for Brep walls. In this test case, all IfcWalls were exported with BReps.	
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■	In this test case, all IfcWalls were exported with BReps.	
030-6-2 Geometry Clipping	■	In this test case, all IfcWalls were exported with BReps.	
030-6-5 Geometry Explicit	■	In this test case, all IfcWalls were exported with BReps. By CV2.0 convention, we do not export openings for BRep walls.	
050 CAD Layer	■		
070 Voiding			
070-1 Voiding Geometry Explicit	■	In this test case, all IfcWalls were exported with BReps. By CV2.0 convention, we do not export openings for BRep walls.	
070-3 Voiding Geometry SweptSolid	■	In this test case, all IfcWalls were exported with BReps. By CV2.0 convention, we do not export openings for BRep walls.	
120 Spatial Containment	■		
















130 Grouping <i>130-1 Grouping General</i>	<div></div> This concept was optional for this test case, and not included in the Revit 2013 export.
200 Material <i>200-3 Material Layer Set</i>	<div></div>
300 Type <i>300-2 Type Naming</i>	<div></div> In this test case, the type names needed to have the category appended to the name.
General	<i>company statement</i>
<i>_G4 Remarks</i>	<div></div> Note that GTDS shows two warnings regarding aggregations - we submitted the RAC test with these, as it was agreed they were not applicable to the case.

Wall 02 / 2x3

WallSlab 03 / 2x3

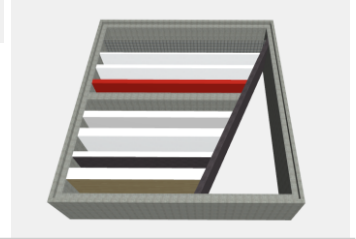


102 IfcWall	company statement		WallSlab 03 / 2x3
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry 030-9 Geometry By Components	■	This concept was optional for this test case, and not included in the RevitLT 2014 export.	
070 Voiding			
070-3 Voiding Geometry SweptSolid	■		
100 Element Aggregation 100-2 Element Decomposition	■	This concept was optional for this test case, and not included in the RevitLT 2014 export.	
210 Property Set			
210-1 Property Set IFC Common	■	Thermal Transmittance isn't natively supported in RevitLT 2014, but can be exported if it is contained in the file.	
105 IfcSlab	company statement		WallSlab 03 / 2x3
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry 030-9 Geometry By Components	■	This concept was optional for this test case, and not included in the RevitLT 2014 export.	

100 Element Aggregation <i>100-2 Element Decomposition</i>	 This concept was optional for this test case, and not included in the RevitLT 2014 export.	
501 IfcProject	<i>company statement</i>	WallSlab 03 / 2x3
001 GUIDs		
002 History		
005 Project Units 005-1 Project Metric Units		
008 Representation Context 008-1 Representation Main Context 008-2 Representation Sub Context 008-2-2 Representation Sub Context 3D	  	
010 Naming		
150 Spatial Aggregation 150-2 Spatial Decomposition		
503 IfcBuilding	<i>company statement</i>	WallSlab 03 / 2x3
001 GUIDs		
002 History		
010 Naming		
020 Placement 020-1 Placement Absolute	 RevitLT 2014 always exports the IfcBuilding local placement relative to the IfcSite.	
150 Spatial Aggregation 150-1 Spatial Composition 150-2 Spatial Decomposition	 	

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

WallStandardCase 01A / 2x3

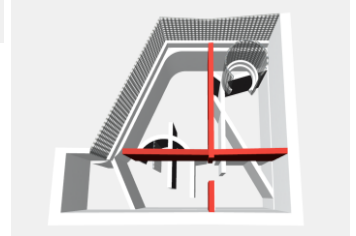


101 IfcWallStandardCase	company statement		WallStandardCase 01A / 2x3
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-2 Geometry Axis	■		
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■	Revit disallows creating material layers for host objects that are less than 1/16". In this test case, one of the walls had a 1mm thick layer, which we modelled as a 1/16" (1.6mm) layer instead.	
030-6-2 Geometry Clipping	■	Revit exports some geometries that are conceptually clipped extrusions as Breps.	
040 Presentation			
040-1 Geometric Presentation	■		
040-2 Material Presentation	■		
050 CAD Layer	■		
110 Connectivity			
110-2 Connectivity Path	■		
120 Spatial Containment	■		

200 Material 200-4 Material Layer Usage	<div></div> Revit disallows creating material layers for host objects that are less than 1/16". In this test case, one of the walls had a 1mm thick layer, which we modelled as a 1/16" (1.6mm) layer instead.
210 Property Set 210-3 Property Set User Defined	<div></div> Revit does not have the capability to create user-defined parameter groups, corresponding to IFC property sets. The Open Source IFC exporter allows for the programmatic creation of user-defined property sets. A user can add these sets to the base exporter, or they can create their own exporter based on the open source version.
300 Type 300-3 Type Material 300-5 Type Property Set	<div></div> <div></div> In this test case, we do not export internal Revit property sets, and there are no common property set at the type level for walls.
General	<i>company statement</i>
_G4 Remarks	<div></div>

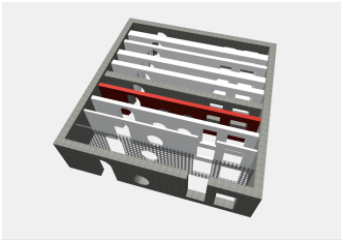
WallStandardCase 01A / 2x3

WallStandardCase 02A / 2x3



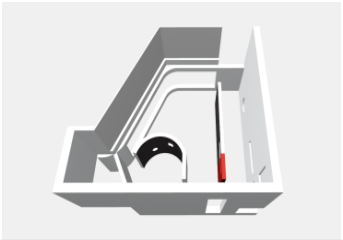
101 IfcWallStandardCase		company statement	WallStandardCase 02A / 2x3
010 Naming		■	
020 Placement			
020-2 Placement Relative		■	
030 Geometry			
030-2 Geometry Axis		■	
030-6 Geometry Body			
030-6-1 Geometry SweptSolid		■	
030-6-2 Geometry Clipping		■	
050 CAD Layer		■	
110 Connectivity			
110-2 Connectivity Path		■	
120 Spatial Containment		■	
200 Material			
200-4 Material Layer Usage		■ In this test case, there are instructions to create a material with two different colors. In Revit 2014, this becomes two materials with two unique names. The restriction comes from having the second name.	
210 Property Set			
210-1 Property Set IFC Common		■	
General		company statement	WallStandardCase 02A / 2x3
_G4 Remarks		■	

WallStandardCase 03A / 2x3



101 IfcWallStandardCase	company statement		WallStandardCase 03A / 2x3
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-2 Geometry Axis	■		
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
070 Voiding			
070-1 Voiding Geometry SweptSolid	■		
070-2 Voiding Geometry Explicit	■		
070-3 Voiding Geometry Mapped	■	Revit 2014 exports openings as extrusions or Breps.	
120 Spatial Containment	■		
General	company statement		WallStandardCase 03A / 2x3
_G4 Remarks	■		

WallStandardCase 04A / 2x3














101 IfcWallStandardCase	company statement		WallStandardCase 04A / 2x3
010 Naming	■		
030 Geometry			
030-2 Geometry Axis	■		
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
070 Voiding			
070-1 Voiding Geometry SweptSolid	■	In this test case, there are openings that span multiple walls. Revit 2014 creates a separate IfcOpeningElement for each wall/opening pair. The test expects only one IfcOpeningElement.	
070-2 Voiding Geometry Explicit	■		
070-3 Voiding Geometry Mapped	■	Revit 2014 exports openings as extrusions or Breps.	
120 Spatial Containment	■		
General	company statement		WallStandardCase 04A / 2x3
_G4 Remarks	■		

Window 01 / 2x3



301 IfcWindow	company statement		Window 01 / 2x3
001 GUIDs		■	
002 History		■	
010 Naming		■	
020 Placement			
020-2 Placement Relative		■	
030 Geometry			
030-5 Geometry Profile	■	RevitLT 2014 exports Footprint information for family instances. It does not export 2D elevation profiles.	
030-6 Geometry Body			
030-6-5 Geometry Explicit	■	In this test case, there is a stepped window which is incorrectly exported as an extrusion, instead of two extrusions. This is a bug in our native code that can't be fixed in RevitLT 2014.	
030-6-9 Geometry Mapped		■	
040 Presentation			
040-1 Geometric Presentation		■	
050 CAD Layer		■	
080 Filling			
080-2 Is Filling		■	
120 Spatial Containment		■	

<p>200 Material</p> <p>200-1 Single Material</p> <p>200-5 Material List</p>	<p> RevitLT 2014 exports windows with IfcMaterialList, not IfcMaterial.</p> <p></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></p> <p> RevitLT 2014 does not have the capability to create user-defined parameter groups, corresponding to IFC property sets. The Open Source IFC exporter allows for the programmatic creation of user-defined property sets. A user can add these sets to the base exporter, or they can create their own exporter based on the open source version.</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> Although RevitLT 2014 exports IfcWindows with IfcMappedRepresentation, the mapped representation is not attached to the IfcWindowStyle.</p> <p></p> <p></p> <p> The RevitLT 2014 exporter does not currently associate type property sets with IfcWindowStyle.</p> <p></p>
<p>General</p>	<p>company statement</p> <p>Window 01 / 2x3</p>
<p>_G4 Remarks</p>	<p> In this test case, there is a stepped window which is incorrectly exported as an extrusion, instead of two extrusions. This is a bug in our native code that can't be fixed in RevitLT 2014.</p>