CoordinationView 2.0 / Export

CV2.0-Struct

ACCA Software S.p.A

EdiLus

05/06/2018

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Introduction

EdiLus is the structural analysis software, based on BIM technology, for design needs with regard to reinforced concrete, masonry, steel and timber structures.

It is the modular structural analysis software solution that addresses structural calculations of buildings with its own integrated FEM solver in order to create detailed working drawings and documentation.
The model input in Edilus is accomplished using 3D objects that represent the structural members such as beams, columns, walls, slabs, etc. A simple drawing of the structure is sufficient to provide the necessary data input for the FEM solver with nodes, loads and constraints.

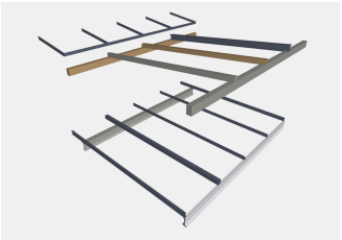
Testlist

Name test	concepts total	manually checked		
		■	■	■
BeamColumn 04 / 2x3	47	30		17
Beam_01 / 2x3	10	10		
Beam_02 / 2x3	12	9		3
Beam_03 / 2x3	6	5		1
CharsetTest-01S / 2x3	2	2		
Column 01 / 2x3	11	11		
Column_02 / 2x3	6	3		3
Grid 01 / 2x3	11	10	1	
Member_01S / 2x3	10	7		3
Pile 01 / 2x3	19	15		4
PlateFastener-01 / 2x3	66	53		13
RampSlab-01 / 2x3	18	16		2
RandomStruc-X1 / 2x3	51	51		
RandomStruc-X2 / 2x3	69	69		
RandomStruc-X3 / 2x3	32	32		
RandomStruc-X4 / 2x3	62	62		
RandomStruc-X5 / 2x3	22	22		
Reinforcement-01 / 2x3	93	71	10	12
Roof 01 / 2x3	15	11	1	3
Roof 02 / 2x3	12	11		1
Site 01 / 2x3	14	14		
Site 02 / 2x3	13	13		
Slab 01S / 2x3	11	9	2	
Slab 02S / 2x3	22	16	1	5
StairSlab-01 / 2x3	19	19		
UnitTest-01S / 2x3	3	3		

Name test	concepts total	manually checked		
		■	■	■
Wall 01 / 2x3	19	11		8
Wall 02 / 2x3	14	8		6
WallStandardCase 01S / 2x3	15	12	1	2
WallStandardCase 02S / 2x3	11	9	2	
WallStandardCase 03S / 2x3	8	8		
WallStandardCase 04S / 2x3	7	7		

Concepts

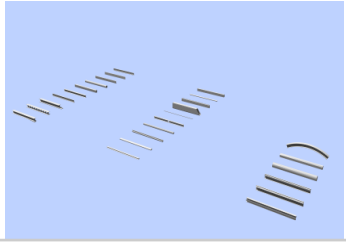
Beam_01 / 2x3



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

■ Supported ■ Restricted ■ Not Supported

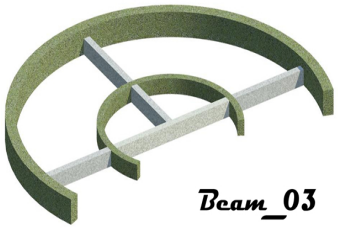
Beam_02 / 2x3



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 relation with beams, this concept is not yet supported.	
070-2 Voiding Geometry Mapped	In relation with beams, this concept is not yet supported.	
070-3 Voiding Geometry SweptSolid	In relation with beams, this concept is not yet supported.	
120 Spatial Containment		
200 Material		
200-1 Single Material		

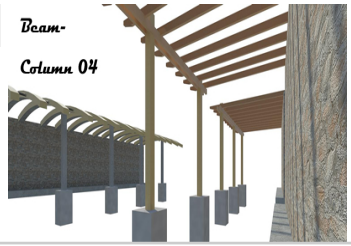
General	company statement	Beam_02 / 2x3
_G4 Remarks		

Beam_03 / 2x3



103 IfcBeam	company statement	Beam_03 / 2x3
030 Geometry		
030-1 Geometry Box		
030-2 Geometry Axis		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid		
030-6-2 Geometry Clipping		
300 Type		
300-5 Type Property Set	This concept is not supported yet.	
General	*company statement*	*Beam_03 / 2x3*
_G4 Remarks		

BeamColumn 04 / 2x3



103 IfcBeam	company statement	BeamColumn 04 / 2x3
001 GUIDs		
002 History		
010 Naming		
020 Placement		
020-2 Placement Relative		
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid		
030-6-9 Geometry Mapped		
070 Voiding		
070-1 Voiding Geometry Explicit	This concept is not yet supported.	
070-2 Voiding Geometry Mapped	This concept is not yet supported.	
070-3 Voiding Geometry SweptSolid	This concept is not yet supported.	
130 Grouping		
130-1 Grouping General		
200 Material		
200-1 Single Material		

210 Property Set		
210-1 Property Set IFC Common		
210-3 Property Set User Defined		
300 Type		
300-1 Type Geometry	This concept is not yet supported.	
300-2 Type Naming		
300-3 Type Material	This concept is not yet supported.	
300-5 Type Property Set	This concept is not yet supported.	
104 IfcColumn	*company statement*	*BeamColumn 04 / 2x3*
001 GUIDs		
002 History		
010 Naming		
020 Placement		
020-2 Placement Relative		
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	In this test case all columns are exported as Brep.	
030-6-9 Geometry Mapped	In this test case all columns are exported without a model.	
070 Voiding		
070-1 Voiding Geometry Explicit	This concept is not yet supported.	
070-2 Voiding Geometry Mapped	This concept is not yet supported.	
070-3 Voiding Geometry SweptSolid	This concept is not yet supported.	
130 Grouping		
130-1 Grouping General		

Supported Restricted Not Supported

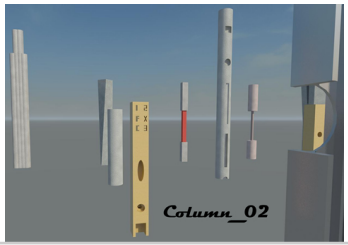
200 Material		
200-1 Single Material		
210 Property Set		
210-2 Property Set IFC any		
300 Type		
300-1 Type Geometry		This concept is not yet supported.
300-2 Type Naming		
300-3 Type Material		This concept is not yet supported.
300-5 Type Property Set		This concept is not yet supported.
403 IfcFooting	*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		
130 Grouping		
130-1 Grouping General		
200 Material		
200-1 Single Material		
210 Property Set		
210-2 Property Set IFC any		

300 Type			
300-1 Type Geometry		This concept is not yet supported.	
300-2 Type Naming			
300-3 Type Material		This concept is not yet supported.	
300-5 Type Property Set		This concept is not yet supported.	
General	*company statement*		*BeamColumn 04 / 2x3*
_G4 Remarks			

CharsetTest-01S / 2x3

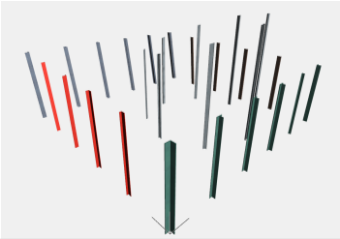
General	*company statement*	*CharsetTest-01S / 2x3*
_G1 Character sets		
_G4 Remarks		

Column_02 / 2x3



104 IfcColumn	*company statement*	*Column_02 / 2x3*
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid		
030-6-5 Geometry Explicit		
070 Voiding		
070-1 Voiding Geometry Explicit	In relation to columns, this concept is not yet supported.	
070-2 Voiding Geometry Mapped	In relation to columns, this concept is not yet supported.	
070-3 Voiding Geometry SweptSolid	In relation to columns, this concept is not yet supported.	
General	*company statement*	*Column_02 / 2x3*
_G4 Remarks		

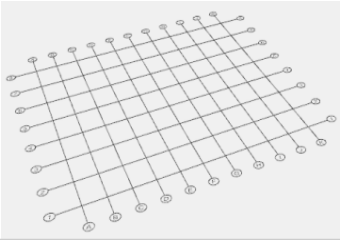
Column 01 / 2x3



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	■	

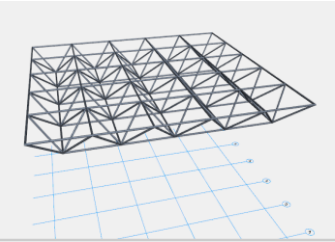
General	company statement	Column 01 / 2x3
_G4 Remarks	■	

Grid 01 / 2x3



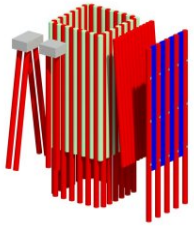
509 IfcGrid	company statement	Grid 01 / 2x3
001 GUIDs		
002 History		
010 Naming		
020 Placement		
020-2 Placement Relative		
030 Geometry		
030-3 Geometry FootPrint		
040 Presentation		
040-1 Geometric Presentation		
050 CAD Layer		
120 Spatial Containment		
210 Property Set		
210-3 Property Set User Defined		
270 Grid Usage		
270-1 Grid Axes		
General	*company statement*	*Grid 01 / 2x3*
_G4 Remarks	Only the rectangular and radial grid are exported. The other grids are not supported by the application.	

Member_01S / 2x3



401 IfcMember	company statement	Member_01S / 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		
110 Connectivity		
110-1 Connectivity Basic	Member Connectivity is not yet supported.	
110-3 Connectivity Realization		
110-3-1 Connectivity Realized	Member Connectivity is not yet supported.	
120 Spatial Containment		
200 Material		
200-1 Single Material		
300 Type		
300-1 Type Geometry	Geomtry on Type is not yet supported.	
General	company statement	Member_01S / 2x3
_G4 Remarks		

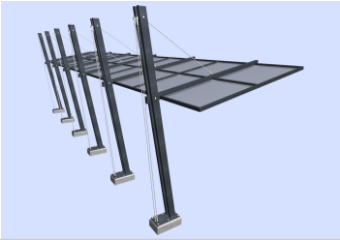
Pile 01 / 2x3



404 IfcPile	company statement	Pile 01 / 2x3
001 GUIDs		
002 History		
010 Naming		
020 Placement		
020-1 Placement Relative		
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid		
030-6-2 Geometry Clipping		
030-6-9 Geometry Mapped		
040 Presentation		
040-1 Geometric Presentation		
040-2 Material Presentation		
050 CAD Layer		
070 Voiding		
070-3 Voiding Geometry SweptSolid	This concept is not yet supported.	
100 Element Aggregation		
100-2 Element Decomposition		
120 Spatial Containment		

200 Material		
200-1 Single Material		
210 Property Set		
210-3 Property Set User Defined		
300 Type		
300-1 Type Geometry	This concept is not yet supported.	
300-3 Type Material	This concept is not yet supported.	
300-5 Type Property Set	This concept is not yet supported.	
General	*company statement*	*Pile 01 / 2x3*
_G4 Remarks		

PlateFastener-01 / 2x3



103 IfcBeam	*company statement*	*PlateFastener-01 / 2x3*
001 GUIDs		
002 History		
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid		
030-6-9 Geometry Mapped		
104 IfcColumn	*company statement*	*PlateFastener-01 / 2x3*
001 GUIDs		
002 History		
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid		
030-6-9 Geometry Mapped		
100 Element Aggregation		
100-2 Element Decomposition	This concept is not yet supported.	
210 Property Set		
210-3 Property Set User Defined		

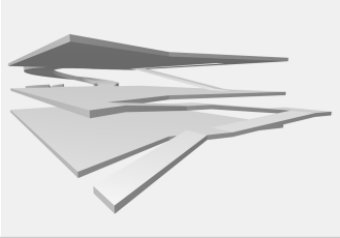
300 Type		
300-1 Type Geometry	This concept is not yet supported.	
300-2 Type Naming		
300-3 Type Material	This concept is not yet supported.	
300-5 Type Property Set	This concept is not yet supported.	
401 IfcMember	*company statement*	*PlateFastener-01 / 2x3*
001 GUIDs		
002 History		
020 Placement		
020-2 Placement Relative		
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid		
030-6-9 Geometry Mapped		
040 Presentation		
040-1 Geometric Presentation		
050 CAD Layer		
210 Property Set		
210-1 Property Set IFC Common		
210-3 Property Set User Defined		
300 Type		
300-2 Type Naming		
300-3 Type Material	This concept is not yet supported.	
300-5 Type Property Set	This concept is not yet supported.	
402 IfcPlate	*company statement*	*PlateFastener-01 / 2x3*

001 GUIDs	■	
002 History	■	
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
030-6-2 Geometry Clipping	■	This concept is not yet supported.
030-6-5 Geometry Explicit	■	
040 Presentation		
040-1 Geometric Presentation	■	
050 CAD Layer	■	
070 Voiding		
070-3 Voiding Geometry SweptSolid	■	
120 Spatial Containment	■	
200 Material		
200-2 Material Layer Set	■	
210 Property Set		
210-1 Property Set IFC Common	■	
210-3 Property Set User Defined	■	

300 Type			
300-1 Type Geometry		This concept is not yet supported.	
300-2 Type Naming			
300-3 Type Material		This concept is not yet supported.	
300-5 Type Property Set		This concept is not yet supported.	
403 IfcFooting	*company statement*		*PlateFastener-01 / 2x3*
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid			
030-6-2 Geometry Clipping			
405 IfcFastener	*company statement*		*PlateFastener-01 / 2x3*
010 Naming			
020 Placement			
020-2 Placement Relative			
030 Geometry			
030-2 Geometry Axis			
406 IfcMechanicalFastener	*company statement*		*PlateFastener-01 / 2x3*
001 GUIDs			
002 History			
010 Naming			
020 Placement			
020-2 Placement Relative			

030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
030-6-5 Geometry Explicit	■	
030-6-9 Geometry Mapped	■	
040 Presentation		
040-1 Geometric Presentation	■	
050 CAD Layer	■	
120 Spatial Containment	■	
200 Material		
200-1 Single Material	■	
210 Property Set		
210-6 Property Set IFC any	■	
210-9 Property Set User Defined	■	
300 Type		
300-1 Type Geometry	■	This concept is not yet supported.
300-2 Type Naming	■	
300-3 Type Material	■	This concept is not yet supported.
300-5 Type Property Set	■	This concept is not yet supported.

RampSlab-01 / 2x3



105 IfcSlab	*company statement*	*RampSlab-01 / 2x3*
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	■	
107 IfcRamp	*company statement*	*RampSlab-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	■	This concept is not yet supported.

040 Presentation		
040-1 Geometric Presentation	■	
050 CAD Layer	■	
100 Element Aggregation		
100-2 Element Decomposition	■	This concept is not yet supported.
120 Spatial Containment	■	
200 Material		
200-1 Single Material	■	
210 Property Set		
210-1 Property Set IFC Common	■	
210-3 Property Set User Defined	■	
General	*company statement*	*RampSlab-01 / 2x3*
_G4 Remarks	■	

RandomStruc-X1 / 2x3

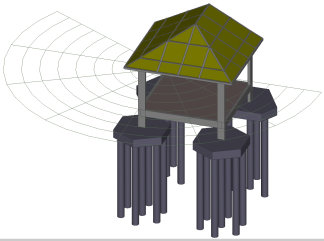
103 IfcBeam	company statement	RandomStruc-X1 / 2x3
001 GUIDs	■	
002 History	■	
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
030-6-9 Geometry Mapped	■	
040 Presentation		
040-1 Geometric Presentation	■	
050 CAD Layer	■	
120 Spatial Containment	■	
200 Material		
200-1 Single Material	■	
210 Property Set		
210-1 Property Set IFC Common	■	
210-3 Property Set User Defined	■	

300 Type			
300-2 Type Naming	■		
104 IfcColumn		*company statement*	*RandomStruc-X1 / 2x3*
001 GUIDs	■		
002 History	■		
010 Naming	■		
030 Geometry			
030-1 Geometry Box	■		
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
050 CAD Layer	■		
120 Spatial Containment	■		
200 Material			
200-1 Single Material	■		
210 Property Set			
210-1 Property Set IFC Common	■		
210-3 Property Set User Defined	■		
300 Type			
300-2 Type Naming	■		
105 IfcSlab		*company statement*	*RandomStruc-X1 / 2x3*
001 GUIDs	■		
002 History	■		
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		

030 Geometry		
030-1 Geometry Box	■	
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
120 Spatial Containment	■	
200 Material		
200-1 Single Material	■	
210 Property Set		
210-1 Property Set IFC Common	■	
300 Type		
300-2 Type Naming	■	
403 IfcFooting	*company statement*	*RandomStruc-X1 / 2x3*
001 GUIDs	■	
010 Naming	■	
020 Placement		
020-1 Placement Relative	■	
030 Geometry		
030-1 Geometry Box	■	
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
030-6-9 Geometry Mapped	■	
040 Presentation		
040-1 Geometric Presentation	■	
040-2 Material Presentation	■	
050 CAD Layer	■	

130 Grouping			
130-1 Grouping General	■		
200 Material			
200-1 Single Material	■		
210 Property Set			
210-3 Property Set User Defined	■		
300 Type			
300-2 Type Naming	■		
504 IfcBuildingStorey		*company statement*	*RandomStruc-X1 / 2x3*
002 History	■		
010 Naming	■		
506 IfcGroup		*company statement*	*RandomStruc-X1 / 2x3*
010 Naming	■		
General		*company statement*	*RandomStruc-X1 / 2x3*
_G4 Remarks	■		

RandomStruc-X2 / 2x3



103 IfcBeam	company statement	RandomStruc-X2 / 2x3
001 GUIDs	■	
002 History	■	
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	■	
200 Material		
200-1 Single Material	■	
210 Property Set		
210-1 Property Set IFC Common	■	
210-3 Property Set User Defined	■	
300 Type		
300-2 Type Naming	■	
105 IfcSlab	company statement	RandomStruc-X2 / 2x3

■ Supported ■ Restricted ■ Not Supported

020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
050 CAD Layer	■	
200 Material		
200-1 Single Material	■	
210 Property Set		
210-3 Property Set User Defined	■	
300 Type		
300-2 Type Naming	■	
403 IfcFooting	*company statement*	*RandomStruc-X2 / 2x3*
020 Placement		
020-1 Placement Relative	■	
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
030-6-9 Geometry Mapped	■	
100 Element Aggregation		
100-1 Element Composition	■	
100-2 Element Decomposition	■	
120 Spatial Containment	■	
200 Material		
200-1 Single Material	■	

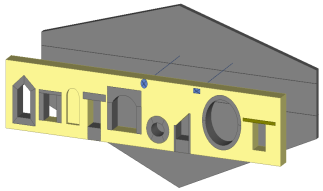
■ Supported ■ Restricted ■ Not Supported

300 Type			
300-2 Type Naming	■		
404 IfcPile		*company statement*	*RandomStruc-X2 / 2x3*
001 GUIDs	■		
002 History	■		
010 Naming	■		
020 Placement			
020-1 Placement Relative	■		
030 Geometry			
030-1 Geometry Box	■		
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
030-6-9 Geometry Mapped	■		
040 Presentation			
040-1 Geometric Presentation	■		
040-2 Material Presentation	■		
050 CAD Layer	■		
100 Element Aggregation			
100-1 Element Composition	■		
120 Spatial Containment	■		
200 Material			
200-1 Single Material	■		
300 Type			
300-2 Type Naming	■		
501 IfcProject		*company statement*	*RandomStruc-X2 / 2x3*

001 GUIDs	■	
002 History	■	
005 Project Units		
005-1 Project Metric Units	■	
010 Naming	■	
150 Spatial Aggregation		
150-1 Spatial Composition	■	
502 IfcSite	*company statement*	*RandomStruc-X2 / 2x3*
001 GUIDs	■	
002 History	■	
010 Naming	■	
020 Placement		
020-1 Placement Absolute	■	
060 Location		
060-1 Geographic Location	■	
150 Spatial Aggregation		
150-1 Spatial Composition	■	
150-2 Spatial Decomposition	■	
503 IfcBuilding	*company statement*	*RandomStruc-X2 / 2x3*
001 GUIDs	■	
002 History	■	
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	

060 Location		
060-2 Address		
120 Spatial Containment		
150 Spatial Aggregation		
150-1 Spatial Composition		
150-2 Spatial Decomposition		
210 Property Set		
210-1 Property Set IFC Common		
509 IfcGrid	*company statement*	*RandomStruc-X2 / 2x3*
001 GUIDs		
002 History		
010 Naming		
020 Placement		
020-2 Placement Relative		
030 Geometry		
030-3 Geometry FootPrint		
050 CAD Layer		
120 Spatial Containment		
270 Grid Usage		
270-1 Grid Axes		
General	*company statement*	*RandomStruc-X2 / 2x3*
_G4 Remarks		

RandomStruc-X3 / 2x3



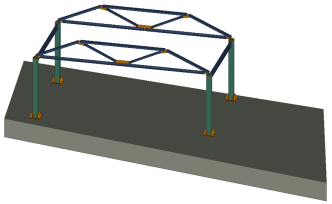
101 IfcWallStandardCase	company statement	RandomStruc-X3 / 2x3
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
030-6-2 Geometry Clipping	■	
070 Voiding		
070-1 Voiding Geometry SweptSolid	■	
103 IfcBeam	company statement	RandomStruc-X3 / 2x3
001 GUIDs	■	
002 History	■	
020 Placement		
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	■	
120 Spatial Containment	■	
401 IfcMember	company statement	RandomStruc-X3 / 2x3

■ Supported ■ Restricted ■ Not Supported

020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
030-6-9 Geometry Mapped	■		
040 Presentation			
040-1 Geometric Presentation	■		
100 Element Aggregation			
100-1 Element Composition	■		
200 Material			
200-1 Single Material	■		
402 IfcPlate		*company statement*	*RandomStruc-X3 / 2x3*
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit	■		
100 Element Aggregation			
100-1 Element Composition	■		
120 Spatial Containment	■		
406 IfcMechanicalFastener		*company statement*	*RandomStruc-X3 / 2x3*
020 Placement			
020-2 Placement Relative	■		

030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
030-6-9 Geometry Mapped	■		
100 Element Aggregation			
100-1 Element Composition	■		
408 IfcElementAssembly		*company statement*	*RandomStruc-X3 / 2x3*
030 Geometry			
030-6 Geometry Body			
030-9 Geometry By Components	■		
411 IfcTendon		*company statement*	*RandomStruc-X3 / 2x3*
001 GUIDs	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit	■		
050 CAD Layer	■		
120 Spatial Containment	■		
General		*company statement*	*RandomStruc-X3 / 2x3*
_G4 Remarks	■		

RandomStruc-X4 / 2x3



103 IfcBeam	company statement	RandomStruc-X4 / 2x3
001 GUIDs	■	
002 History	■	
030 Geometry		
030-6 Geometry Body		
030-6-5 Geometry Explicit	■	
030-6-9 Geometry Mapped	■	
050 CAD Layer	■	
120 Spatial Containment	■	
200 Material		
200-1 Single Material	■	
210 Property Set		
210-1 Property Set IFC Common	■	
300 Type		
300-2 Type Naming	■	

104 IfcColumn	company statement	RandomStruc-X4 / 2x3
001 GUIDs	■	
002 History	■	

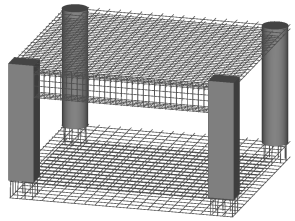
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
030-6-2 Geometry Clipping	■		
050 CAD Layer	■		
120 Spatial Containment	■		
200 Material			
200-1 Single Material	■		
210 Property Set			
210-1 Property Set IFC Common	■		
300 Type			
300-2 Type Naming	■		
402 IfcPlate		*company statement*	*RandomStruc-X4 / 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	■		
050 CAD Layer	■		
100 Element Aggregation			
100-1 Element Composition	■		
200 Material			
200-1 Single Material	■		

300 Type		
300-2 Type Naming	■	
405 IfcFastener	*company statement*	*RandomStruc-X4 / 2x3*
001 GUIDs	■	
002 History	■	
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-1 Geometry Box	■	
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
030-6-9 Geometry Mapped	■	
040 Presentation		
040-1 Geometric Presentation	■	
050 CAD Layer	■	
100 Element Aggregation		
100-1 Element Composition	■	
120 Spatial Containment	■	
406 IfcMechanicalFastener	*company statement*	*RandomStruc-X4 / 2x3*
001 GUIDs	■	
002 History	■	
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	

030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
030-6-5 Geometry Explicit	■	
030-6-9 Geometry Mapped	■	
040 Presentation		
040-1 Geometric Presentation	■	
050 CAD Layer	■	
100 Element Aggregation		
100-1 Element Composition	■	
407 IfcDiscreteAccessory	*company statement*	*RandomStruc-X4 / 2x3*
001 GUIDs	■	
002 History	■	
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-1 Geometry Box	■	
030-6 Geometry Body		
030-6-5 Geometry Explicit	■	
030-6-9 Geometry Mapped	■	
050 CAD Layer	■	
100 Element Aggregation		
100-1 Element Composition	■	
120 Spatial Containment	■	

300 Type			
300-2 Type Naming	■		
408 IfcElementAssembly		*company statement*	*RandomStruc-X4 / 2x3*
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-6 Geometry Body			
030-9 Geometry By Components	■		
100 Element Aggregation			
100-2 Element Decomposition	■		
120 Spatial Containment	■		
General		*company statement*	*RandomStruc-X4 / 2x3*
_G4 Remarks	■		

RandomStruc-X5 / 2x3



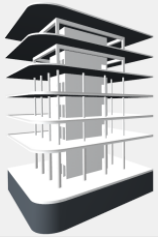
408 IfcElementAssembly	company statement	RandomStruc-X5 / 2x3
001 GUIDs	■	
002 History	■	
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
100 Element Aggregation		
100-2 Element Decomposition	■	

409 IfcReinforcingBar	company statement	RandomStruc-X5 / 2x3
001 GUIDs	■	
002 History	■	
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		
040-2 Material Presentation	■	

■ Supported ■ Restricted ■ Not Supported

050 CAD Layer	■	
100 Element Aggregation		
100-1 Element Composition	■	
120 Spatial Containment	■	
200 Material		
200-1 Single Material	■	
410 IfcReinforcingMesh	*company statement*	*RandomStruc-X5 / 2x3*
001 GUIDs	■	
002 History	■	
020 Placement		
020-2 Placement Relative	■	
100 Element Aggregation		
100-2 Element Decomposition	■	
120 Spatial Containment	■	
General	*company statement*	*RandomStruc-X5 / 2x3*
_G4 Remarks	■	

Reinforcement-01 / 2x3



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

■ Supported ■ Restricted ■ Not Supported

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

030 Geometry		
030-6 Geometry Body		
030-6-5 Geometry Explicit	■	
030-6-9 Geometry Mapped	■	
040 Presentation		
040-1 Geometric Presentation	■	
050 CAD Layer	■	CAD Layer is generated by application
120 Spatial Containment	■	
200 Material		
200-1 Single Material	■	
210 Property Set		
210-9 Property Set User Defined	■	This concept is not yet supported.
300 Type		
300-1 Type Geometry	■	This concept is not yet supported
300-2 Type Naming	■	
300-3 Type Material	■	This concept is not yet supported
300-5 Type Property Set	■	This concept is not yet supported
408 IfcElementAssembly	*company statement*	*Reinforcement-01 / 2x3*
001 GUIDs	■	
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-6 Geometry Body		
030-9 Geometry By Components	■	

040 Presentation		
040-1 Geometric Presentation	On components.	
050 CAD Layer	On components.	
100 Element Aggregation		
100-2 Element Decomposition		
120 Spatial Containment		
210 Property Set		
210-9 Property Set User Defined		
409 IfcReinforcingBar	*company statement*	*Reinforcement-01 / 2x3*
001 GUIDs		
010 Naming		
020 Placement		
020-2 Placement Relative		
030 Geometry		
030-6 Geometry Body		
030-6-4 Geometry AdvancedSweptSolid	This concept is not yet supported	
030-6-5 Geometry Explicit		
030-6-9 Geometry Mapped		
040 Presentation		
040-1 Geometric Presentation		
050 CAD Layer		
120 Spatial Containment		
200 Material		
200-1 Single Material		

210 Property Set		
210-9 Property Set User Defined		
300 Type		
300-1 Type Geometry	This concept is not yet supported.	
300-2 Type Naming		
300-3 Type Material	This concept is not yet supported.	
300-5 Type Property Set	This concept is not yet supported.	
410 IfcReinforcingMesh	*company statement*	*Reinforcement-01 / 2x3*
001 GUIDs		
010 Naming		
020 Placement		
020-2 Placement Relative		
030 Geometry		
030-6 Geometry Body		
030-6-4 Geometry AdvancedSweptSolid	This concept is not yet supported.	
030-6-5 Geometry Explicit	On components.	
030-6-9 Geometry Mapped	On components.	
040 Presentation		
040-1 Geometric Presentation	On components.	
050 CAD Layer	On components.	
120 Spatial Containment		
200 Material		
200-1 Single Material	On components.	
210 Property Set		
210-9 Property Set User Defined	On components.	

Supported Restricted Not Supported

300 Type		
300-1 Type Geometry	This concept is not yet supported.	
300-2 Type Naming		
300-3 Type Material	This concept is not yet supported.	
300-5 Type Property Set	This concept is not yet supported.	
501 IfcProject	*company statement*	*Reinforcement-01 / 2x3*
001 GUIDs		
002 History		
005 Project Units		
005-1 Project Metric Units		
008 Representation Context		
008-1 Representation Main Context		
008-2 Representation Sub Context		
008-2-2 Representation Sub Context 3D		
010 Naming		
150 Spatial Aggregation		
150-2 Spatial Decomposition		
503 IfcBuilding	*company statement*	*Reinforcement-01 / 2x3*
001 GUIDs		
002 History		
010 Naming		
020 Placement		
020-1 Placement Absolute		
060 Location		
060-2 Address		

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

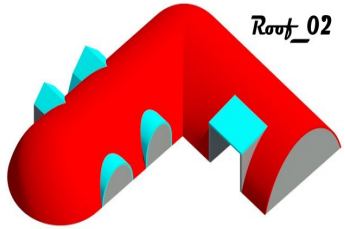
Roof 01 / 2x3

101 IfcWallStandardCase		company statement	Roof 01 / 2x3
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
030-6-2 Geometry Clipping	■		
105 IfcSlab		company statement	Roof 01 / 2x3
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
030-6-2 Geometry Clipping	■		
030-6-9 Geometry Mapped	■	This concept is not yet supported.	
070 Voiding			
070-3 Voiding Geometry SweptSolid	■		
080 Filling			
080-1 Has Filling			
080-1-2 Has Filling Window	■	This concept is not yet supported.	
200 Material			
200-2 Material Layer Set	■		
110 IfcRoof		company statement	Roof 01 / 2x3
030 Geometry			
030-1 Geometry Box	■		

■ Supported ■ Restricted ■ Not Supported

040 Presentation		
040-1 Geometric Presentation	■	
040-2 Material Presentation	■	
100 Element Aggregation		
100-2 Element Decomposition	■	This concept is not yet supported.
120 Spatial Containment	■	
200 Material		
200-1 Single Material	■	
General	*company statement*	*Roof 01 / 2x3*
_G4 Remarks	■	

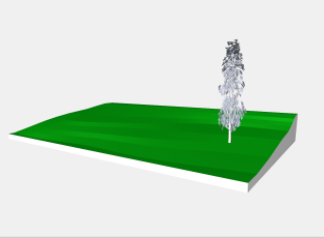
Roof 02 / 2x3



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	This concept is not yet supported.	
210 Property Set		
210-1 Property Set IFC Common		
210-3 Property Set User Defined		

General	company statement	Roof 02 / 2x3
_G4 Remarks		

Site 01 / 2x3

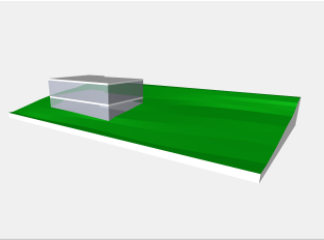


502 IfcSite	company statement	Site 01 / 2x3
001 GUIDs	■	
002 History	■	
010 Naming	■	
020 Placement		
020-1 Placement Absolute	■	
030 Geometry		
030-1 Geometry Box	■	
030-3 Geometry FootPrint	■	
030-6 Geometry Body		
030-6-5 Geometry Explicit	■	
040 Presentation		
040-1 Geometric Presentation	■	
050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

■ Supported ■ Restricted ■ Not Supported

General	company statement	Site 01 / 2x3
_G4 Remarks		

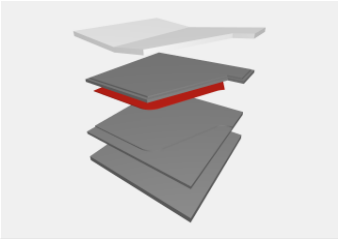
Site 02 / 2x3



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

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

Slab 01S / 2x3

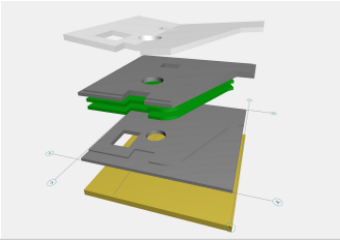


105 IfcSlab	company statement	Slab 01S / 2x3
010 Naming		
020 Placement		
020-2 Placement Relative		
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid		
030-6-2 Geometry Clipping		
040 Presentation		
040-1 Geometric Presentation		
040-2 Material Presentation		
050 CAD Layer		
200 Material		
200-2 Material Layer Set	EdiLus exports one layer of material.	
200-3 Material Layer Usage	EdiLus exports one layer of material.	
210 Property Set		
210-1 Property Set IFC Common		

General	company statement	Slab 01S / 2x3
_G4 Remarks		

Supported Restricted Not Supported

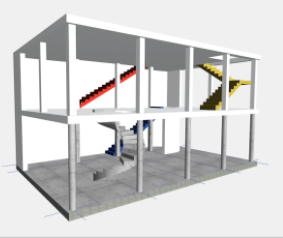
Slab 02S / 2x3



105 IfcSlab	company statement	Slab 02S / 2x3
010 Naming		
020 Placement		
020-2 Placement Relative		
030 Geometry		
030-1 Geometry Box		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid		
030-6-2 Geometry Clipping		
030-6-5 Geometry Explicit		
030-6-9 Geometry Mapped	This concept is not yet supported.	
070 Voiding		
070-1 Voiding Geometry Explicit		
070-2 Voiding Geometry Mapped	This concept is not yet supported.	
070-3 Voiding Geometry SweptSolid		
120 Spatial Containment		
130 Grouping		
130-1 Grouping General		

200 Material		
200-1 Single Material		
200-2 Material Layer Set		One material is exported as Layer Set.
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		This concept is not yet supported.
300-2 Type Naming		
300-3 Type Material		This concept is not yet supported.
300-5 Type Property Set		This concept is not yet supported.
General	*company statement*	*Slab 02S / 2x3*
_G4 Remarks		

StairSlab-01 / 2x3



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

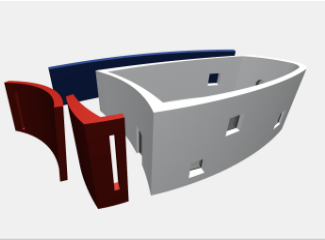
106 IfcStair	company statement	StairSlab-01 / 2x3
001 GUIDs	■	
002 History	■	
010 Naming	■	
020 Placement		
020-1 Placement Relative	■	

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

UnitTest-01S / 2x3

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

Wall 01 / 2x3

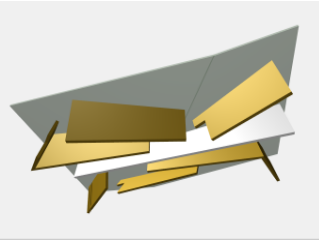


102 IfcWall	company statement	Wall 01 / 2x3
002 History		
010 Naming		
020 Placement		
020-2 Placement Relative		
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	None of the Walls in the test case can be evaluated as Swept Solid. Explicit Geometry is used instead.	
030-6-2 Geometry Clipping	None of the Walls in the test case can be evaluated as Swept Solid. Explicit Geometry is used instead.	
030-6-5 Geometry Explicit		
040 Presentation		
040-1 Geometric Presentation		
040-2 Material Presentation		
070 Voiding		
070-1 Voiding Geometry Explicit	All Walls in this test case are exported as Brep, so Openings are not exported	
070-3 Voiding Geometry SweptSolid	All Walls in this test case are exported as Brep, so Openings are not exported	
080 Filling		
080-1 Has Filling		
080-1-1 Has Filling Door	All Walls in this test case are exported as Brep, so Openings are not exported	
080-1-2 Has Filling Window	All Walls in this test case are exported as Brep, so Openings are not exported.	

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	■	Optional data not yet supported.	
300-5 Type Property Set	■	Optional data not yet supported.	
301 IfcWindow		*company statement*	*Wall 01 / 2x3*
020 Placement			
020-2 Placement Relative	■		
302 IfcDoor		*company statement*	*Wall 01 / 2x3*
020 Placement			
020-2 Placement Relative	■		
General		*company statement*	*Wall 01 / 2x3*
_G4 Remarks	■		

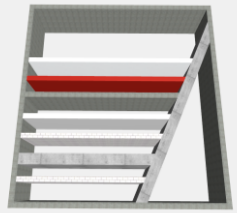
Wall 02 / 2x3



102 IfcWall	company statement	Wall 02 / 2x3
010 Naming		
020 Placement		
020-2 Placement Relative		
030 Geometry		
030-2 Geometry Axis	This concept is not exported for this particular test case.	
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	All walls are exported as Brep.	
030-6-2 Geometry Clipping	All walls are exported as Brep.	
030-6-5 Geometry Explicit		
050 CAD Layer		
070 Voiding		
070-1 Voiding Geometry Explicit	All walls are exported as Brep so no void is exported.	
070-3 Voiding Geometry SweptSolid	All walls are exported as Brep so no void is exported.	
120 Spatial Containment		
130 Grouping		
130-1 Grouping General		
200 Material		
200-3 Material Layer Set	For this test case only single material is exported.	

300 Type		
300-2 Type Naming		
General	*company statement*	*Wall 02 / 2x3*
_G4 Remarks		

WallStandardCase 01S / 2x3

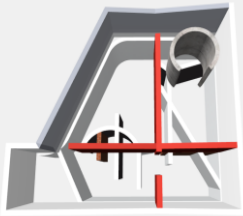


101 IfcWallStandardCase	company statement	WallStandardCase 01S / 2x3
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-2 Geometry Axis	■	
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
030-6-2 Geometry Clipping	■	
040 Presentation		
040-1 Geometric Presentation	■	
040-2 Material Presentation	■	
050 CAD Layer	■	
110 Connectivity		
110-2 Connectivity Path	■	
120 Spatial Containment	■	
200 Material		
200-4 Material Layer Usage	■	Material Layer Usage is presented but each wall can have assigned only one material becouse EdiLus does not support layered walls. Always only one layer of material is exported.

■ Supported ■ Restricted ■ Not Supported

210 Property Set			
210-3 Property Set User Defined			
300 Type			
300-3 Type Material		This concept is not yet supported.	
300-5 Type Property Set		This concept is not yet supported.	
General		*company statement*	*WallStandardCase 01S / 2x3*
_G4 Remarks			

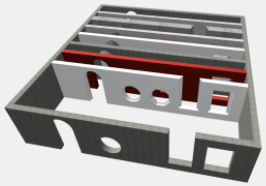
WallStandardCase 02S / 2x3



101 IfcWallStandardCase	company statement	WallStandardCase 02S / 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	Material Layer Usage is presented but each wall can have assigned only one material becouse EdiLus does not support layered walls. Always only one layer of material is exported.	
210 Property Set		
210-1 Property Set IFC Common		
General	company statement	WallStandardCase 02S / 2x3
_G4 Remarks		

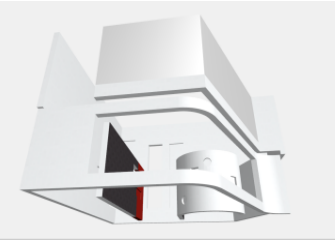
Supported Restricted Not Supported

WallStandardCase 03S / 2x3



101 IfcWallStandardCase	*company statement*	*WallStandardCase 03S / 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	■	
120 Spatial Containment	■	
General	*company statement*	*WallStandardCase 03S / 2x3*
_G4 Remarks	■	

WallStandardCase 04S / 2x3



101 IfcWallStandardCase	company statement	WallStandardCase 04S / 2x3
010 Naming	■	
030 Geometry		
030-2 Geometry Axis	■	
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
070 Voiding		
070-1 Voiding Geometry SweptSolid	■	
070-2 Voiding Geometry Explicit	■	
120 Spatial Containment	■	
General	company statement	WallStandardCase 04S / 2x3
_G4 Remarks	■	