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## Introduction

Release: 1.0001

IFC Import of Coordination View in Dlubal Software

The import of IFC Coordination View files in Dlubal Software allow the users to view and reference to the imported models in the Dlubal Software environment.

When viewing the imported models they can be explored by IFC layers (if present), IFC Element type (automatically generated), IFC Project->Site->Building->Storey (if present) or IFC Groups (if present). Users have the option to use a tree control to hide or show objects or to explore object parameters.

The imported models can be used as a reference for manual input of the analytical model inside RSTAB/RFEM. Vertices of the coordination view model can be used as magnetic snap points for native analytical model generation in RSTAB/RFEM.

Further it is possible to generate native analytical RSTAB/RFEM objects from IFC coordination view objects like walls, slabs, beams, columns and solids by automatic conversion. During this conversion it is possible to place the center lines and planes of the analytical model depending on reference points.

Because of the nature of a structural analysis application, Dlubal Software does not deal with some IFC objects that are not of relevance for structural design or where no design capability exists at this time in Dlubal Software.

In further updates of Dlubal Software procedures will be optimized and new entities may be supported.

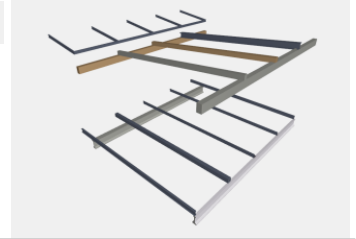
For further information please see [www.dlubal.com](http://www.dlubal.com).

## Testlist

Name test	concepts total	manually checked		
				
BeamColumn 04 / 2x3	47	32		3
Beam_01 / 2x3	10	7	2	1
Beam_03 / 2x3	6	4		2
Column 01 / 2x3	11	9	2	
Column_02 / 2x3	6	5		
RampRailing-01 / 2x3	28	12		15
RampSlab-01 / 2x3	18	15	2	1
RandomArch-X1 Allplan2013 / 2x3	16	11		5
RandomArch-X2 AC16 / 2x3	12	9		3
RandomArch-X3 RAC / 2x3	9	9		
RandomStruc-X1 Scia / 2x3	9	6		3
RandomStruc-X2 TS / 2x3	9	1		8
RandomStruc-X5 RST / 2x3	26	22		4
Roof 01 / 2x3	15	11	2	2
Roof 02 / 2x3	12	12		
Slab 01A / 2x3	9	9		
Slab 02A / 2x3	24	17		3
Slab 02S / 2x3	22	21		1
UnitTest-01S / 2x3	3	3		
Wall 01 / 2x3	19	12	2	5
Wall 02 / 2x3	14	13		1
WallSlab 03 / 2x3	32	25		5
WallStandardCase 01A / 2x3	15	11	2	2
WallStandardCase 02S / 2x3	11	9	1	1
WallStandardCase 03A / 2x3	9	8		1
WallStandardCase 04S / 2x3	7	6		1

Concepts

Beam\_01 / 2x3



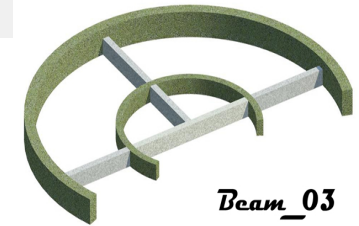
103 IfcBeam	<i>company statement</i>		<i>Beam_01 / 2x3</i>
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
030-6-2 Geometry Clipping	■	There is an issue in the Vectorworks file.	
040 Presentation			
040-1 Geometric Presentation	■	Only color of the surface is supported, the rest is ignored.	
040-2 Material Presentation	■	Only color of the material is taken, the rest is ignored. Also if geometric color is defined, material's color is ignored too.	
120 Spatial Containment	■		
200 Material			
200-1 Single Material	■		
210 Property Set			
210-1 Property Set IFC Common	■		
General	<i>company statement</i>		<i>Beam_01 / 2x3</i>

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\_G4 Remarks

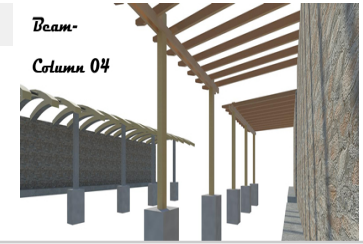


**Beam\_03 / 2x3**



















103 IfcBeam	<i>company statement</i>	<i>Beam_03 / 2x3</i>
030 Geometry 030-1 Geometry Box 030-2 Geometry Axis 030-6 Geometry Body 030-6-1 Geometry SweptSolid 030-6-2 Geometry Clipping	 <div style="display: flex; align-items: center; margin-bottom: 5px;"> <span style="width: 15px; height: 15px; background-color: red; margin-right: 5px;"></span> <span>IfcShapeRepresentation of this type is not supported.</span> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <span style="width: 15px; height: 15px; background-color: red; margin-right: 5px;"></span> <span>IfcShapeRepresentation 'Axis' is not supported.</span> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <span style="width: 15px; height: 15px; background-color: green; margin-right: 5px;"></span> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <span style="width: 15px; height: 15px; background-color: green; margin-right: 5px;"></span> </div>	
300 Type 300-5 Type Property Set	 <div style="display: flex; align-items: center; margin-bottom: 5px;"> <span style="width: 15px; height: 15px; background-color: green; margin-right: 5px;"></span> </div>	
<b>General</b>	<i>company statement</i>	<i>Beam_03 / 2x3</i>
_G4 Remarks	<div style="display: flex; align-items: center; margin-bottom: 5px;"> <span style="width: 15px; height: 15px; background-color: green; margin-right: 5px;"></span> </div>	
















## BeamColumn 04 / 2x3



BeamColumn 04 / 2x3

103 IfcBeam	<i>company statement</i>	
001 GUIDs	■	
002 History	■	The history of objects is not supported.
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
030-6-9 Geometry Mapped	■	
070 Voiding		
070-1 Voiding Geometry Explicit	■	
070-2 Voiding Geometry Mapped	■	
070-3 Voiding Geometry SweptSolid	■	
130 Grouping		
130-1 Grouping General	■	
200 Material		
200-1 Single Material	■	

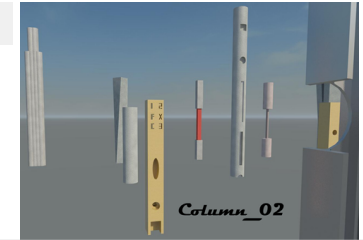
210 Property Set		
210-1 Property Set IFC Common		
210-3 Property Set User Defined		
300 Type		
300-1 Type Geometry		
300-2 Type Naming		
300-3 Type Material		
300-5 Type Property Set		
104 IfcColumn		<i>company statement</i> <span style="float: right;"><i>BeamColumn 04 / 2x3</i></span>
001 GUIDs		
002 History		The history of objects is not supported.
010 Naming		
020 Placement		
020-2 Placement Relative		
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid		
030-6-9 Geometry Mapped		
070 Voiding		
070-1 Voiding Geometry Explicit		
070-2 Voiding Geometry Mapped		
070-3 Voiding Geometry SweptSolid		
130 Grouping		
130-1 Grouping General		

200 Material		
200-1 Single Material		
210 Property Set		
210-2 Property Set IFC any		
300 Type		
300-1 Type Geometry		
300-2 Type Naming		
300-3 Type Material		
300-5 Type Property Set		
403 IfcFooting		<i>company statement</i> <span style="float: right;"><i>BeamColumn 04 / 2x3</i></span>
001 GUIDs		
002 History		The history of objects is not supported.
010 Naming		
020 Placement		
020-1 Placement Relative		
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid		
030-6-9 Geometry Mapped		
130 Grouping		
130-1 Grouping General		
200 Material		
200-1 Single Material		
210 Property Set		
210-2 Property Set IFC any		



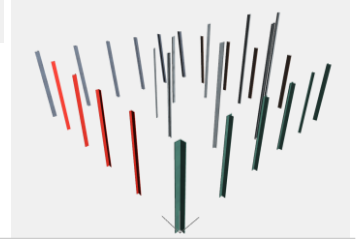
300 Type		
300-1 Type Geometry	■	
300-2 Type Naming	■	
300-3 Type Material	■	
300-5 Type Property Set	■	
General		<i>company statement</i>
<i>_G4 Remarks</i>	■	

Column\_02 / 2x3



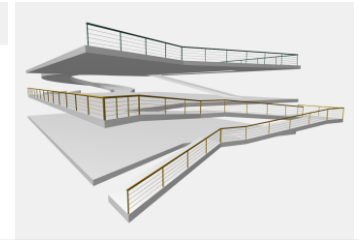
104 IfcColumn		<i>company statement</i>	Column_02 / 2x3
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
030-6-5 Geometry Explicit	■		
070 Voiding			
070-1 Voiding Geometry Explicit	■		
070-2 Voiding Geometry Mapped	■		
070-3 Voiding Geometry SweptSolid	■		
General		<i>company statement</i>	Column_02 / 2x3
_G4 Remarks	■		

**Column 01 / 2x3**



















104 IfcColumn	<i>company statement</i>		<i>Column 01 / 2x3</i>
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	■	Only color of the surface is supported, the rest is ignored.	
040-2 Material Presentation	■	Only color of the material is taken, the rest is ignored. Also if geometric color is defined, material's color is ignored too.	
050 CAD Layer	■		
120 Spatial Containment	■		
200 Material			
200-1 Single Material	■		
210 Property Set			
210-1 Property Set IFC Common	■		
General	<i>company statement</i>		<i>Column 01 / 2x3</i>
_G4 Remarks	■		

## RampRailing-01 / 2x3



107 IfcRamp	<i>company statement</i>		<i>RampRailing-01 / 2x3</i>
001 GUIDs	■		
<i>002 History</i>	■	History of objects is not supported.	
010 Naming	■		
020 Placement 020-1 Placement Relative	■		
030 Geometry 030-6 Geometry Body 030-6-5 Geometry Explicit 030-9 Geometry By Components	■ ■ ■		
040 Presentation 040-1 Geometric Presentation	■		
050 CAD Layer	■		
100 Element Aggregation 100-2 Element Decomposition	■		
120 Spatial Containment	■		
200 Material 200-1 Single Material	■		

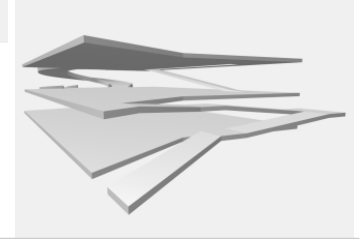
210 Property Set		
210-1 Property Set IFC Common		
210-3 Property Set User Defined		
108 IfcRailing		<i>company statement</i> <span style="float: right;"><i>RampRailing-01 / 2x3</i></span>
001 GUIDs		Entity IfcRailing is not supported.
002 History		Entity IfcRailing is not supported.
010 Naming		Entity IfcRailing is not supported.
020 Placement		
020-2 Placement Relative		Entity IfcRailing is not supported.
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid		Entity IfcRailing is not supported.
030-6-5 Geometry Explicit		Entity IfcRailing is not supported.
030-6-9 Geometry Mapped		Entity IfcRailing is not supported.
040 Presentation		
040-1 Geometric Presentation		Entity IfcRailing is not supported.
050 CAD Layer		Entity IfcRailing is not supported.
120 Spatial Containment		Entity IfcRailing is not supported.
200 Material		
200-1 Single Material		Entity IfcRailing is not supported.
200-5 Material List		Entity IfcRailing is not supported.
210 Property Set		
210-1 Property Set IFC Common		Entity IfcRailing is not supported.
210-3 Property Set User Defined		Entity IfcRailing is not supported.
General		<i>company statement</i> <span style="float: right;"><i>RampRailing-01 / 2x3</i></span>











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\_G4 Remarks

 Entity IfcRailing is not supported.

## RampSlab-01 / 2x3



105 IfcSlab	<i>company statement</i>		<i>RampSlab-01 / 2x3</i>
030 Geometry 030-6 Geometry Body 030-6-1 Geometry SweptSolid			
040 Presentation 040-1 Geometric Presentation 040-2 Material Presentation		 Only color of the surface is taken, the rest is ignored.  Only color of the material is taken, the rest is ignored. Also if geometric color is defined, material's color is ignored too.	
070 Voiding 070-3 Voiding Geometry SweptSolid			
107 IfcRamp	<i>company statement</i>		<i>RampSlab-01 / 2x3</i>
001 GUIDs			
002 History		 History of objects is not supported.	
010 Naming			
020 Placement 020-1 Placement Relative			
030 Geometry 030-6 Geometry Body 030-6-5 Geometry Explicit 030-9 Geometry By Components		 	







040 Presentation			
040-1 Geometric Presentation		■	
050 CAD Layer		■	
100 Element Aggregation			
100-2 Element Decomposition		■	
120 Spatial Containment		■	
200 Material			
200-1 Single Material		■	
210 Property Set			
210-1 Property Set IFC Common		■	
210-3 Property Set User Defined		■	
General			<i>company statement</i>
_G4 Remarks		■	

RampSlab-01 / 2x3



**RandomArch-X1 Allplan2013 / 2x3**

101 IfcWallStandardCase	<i>company statement</i>	<i>RandomArch-X1 Allplan2013 / 2x3</i>
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	  	
070 Voiding 070-2 Voiding Geometry Explicit		
080 Filling 081 Has Filling 081-1 Has Filling Door		
200 Material 200-4 Material Layer Usage		
210 Property Set 210-3 Property Set User Defined		
102 IfcWall	<i>company statement</i>	<i>RandomArch-X1 Allplan2013 / 2x3</i>
020 Placement 020-2 Placement Relative		

<p>030 Geometry</p> <p>    030-2 Geometry Axis</p> <p>    030-6 Geometry Body</p> <p>        030-6-1 Geometry SweptSolid</p> <p>        030-6-2 Geometry Clipping</p>	<p> IfcShapeRepresentation 'Axis' is not supported.</p> <p></p> <p></p>
<p>070 Voiding</p> <p>    070-1 Voiding Geometry Explicit</p>	<p></p>
<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> Entity IfcDoor is not supported.</p> <p> Entity IfcWindow is not supported.</p>
<p>General</p>	<p><i>company statement</i> <span style="float: right;"><i>RandomArch-X1 Allplan2013 / 2x3</i></span></p>
<p>_G4 Remarks</p>	<p></p>

## RandomArch-X2 AC16 / 2x3

101 IfcWallStandardCase		<i>company statement</i>	<i>RandomArch-X2 AC16 / 2x3</i>
001 GUIDs			
002 History		History of objects is not supported.	
010 Naming			
030 Geometry			
030-2 Geometry Axis		IfcShapeRepresentation 'Axis' is not supported.	
030-6 Geometry Body			
030-6-1 Geometry SweptSolid			
210 Property Set			
210-2 Property Set IFC any			
105 IfcSlab		<i>company statement</i>	<i>RandomArch-X2 AC16 / 2x3</i>
001 GUIDs			
002 History		History of objects is not supported.	
010 Naming			
050 CAD Layer			
200 Material			
200-1 Single Material			
General		<i>company statement</i>	<i>RandomArch-X2 AC16 / 2x3</i>
_G4 Remarks			

## RandomArch-X3 RAC / 2x3

101 IfcWallStandardCase		<i>company statement</i>	<i>RandomArch-X3 RAC / 2x3</i>
020 Placement			
020-2 Placement Relative	■		
102 IfcWall		<i>company statement</i>	<i>RandomArch-X3 RAC / 2x3</i>
020 Placement			
020-2 Placement Relative	■		
105 IfcSlab		<i>company statement</i>	<i>RandomArch-X3 RAC / 2x3</i>
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
110 IfcRoof		<i>company statement</i>	<i>RandomArch-X3 RAC / 2x3</i>
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
111 IfcBuildingElementProxy		<i>company statement</i>	<i>RandomArch-X3 RAC / 2x3</i>
010 Naming	■		
503 IfcBuilding		<i>company statement</i>	<i>RandomArch-X3 RAC / 2x3</i>
010 Naming	■		
General		<i>company statement</i>	<i>RandomArch-X3 RAC / 2x3</i>
_G4 Remarks	■		

## RandomStruc-X1 Scia / 2x3

<b>103 IfcBeam</b>	<i>company statement</i>	<i>RandomStruc-X1 Scia / 2x3</i>
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
030-6-5 Geometry Explicit	■	
200 Material		
200-1 Single Material	■	
<b>104 IfcColumn</b>	<i>company statement</i>	<i>RandomStruc-X1 Scia / 2x3</i>
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
030-6-5 Geometry Explicit	■	
<b>402 IfcPlate</b>	<i>company statement</i>	<i>RandomStruc-X1 Scia / 2x3</i>
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■ Entity IfcPlate is not supported.	
<b>406 IfcMechanicalFastener</b>	<i>company statement</i>	<i>RandomStruc-X1 Scia / 2x3</i>
010 Naming	■	
030 Geometry		
030-6 Geometry Body		
030-6-5 Geometry Explicit	■ Entity IfcMechanicalFastener is not supported.	

General

*company statement*

*RandomStruc-X1 Scia / 2x3*















\_G4 Remarks



## RandomStruc-X2 TS / 2x3

409 IfcReinforcingBar	<i>company statement</i>		<i>RandomStruc-X2 TS / 2x3</i>
010 Naming	<span style="color: red;">■</span>	Entity IfcReinforcingBar is not supported.	
030 Geometry			
030-6 Geometry Body			
030-6-4 Geometry AdvancedSweptSolid	<span style="color: red;">■</span>	Entity IfcReinforcingBar is not supported.	
030-6-5 Geometry Explicit	<span style="color: red;">■</span>	Entity IfcReinforcingBar is not supported.	
030-6-9 Geometry Mapped	<span style="color: red;">■</span>	Entity IfcReinforcingBar is not supported.	
040 Presentation			
040-1 Geometric Presentation	<span style="color: red;">■</span>	Entity IfcReinforcingBar is not supported.	
050 CAD Layer	<span style="color: red;">■</span>	Entity IfcReinforcingBar is not supported.	
100 Element Aggregation			
100-1 Element Composition	<span style="color: red;">■</span>	Entity IfcReinforcingBar is not supported.	
200 Material			
200-1 Single Material	<span style="color: red;">■</span>	Entity IfcReinforcingBar is not supported.	
General	<i>company statement</i>		<i>RandomStruc-X2 TS / 2x3</i>
_G4 Remarks	<span style="color: green;">■</span>		

## RandomStruc-X5 RST / 2x3

103 IfcBeam	<i>company statement</i>		<i>RandomStruc-X5 RST / 2x3</i>
001 GUIDs			
002 History		History of objects is not supported in Dlubal Software.	
010 Naming			
020 Placement			
020-2 Placement Relative			
050 CAD Layer			
120 Spatial Containment			
200 Material			
200-1 Single Material			
104 IfcColumn	<i>company statement</i>		<i>RandomStruc-X5 RST / 2x3</i>
001 GUIDs			
002 History		History of objects is not supported in Dlubal Software.	
010 Naming			
020 Placement			
020-2 Placement Relative			
050 CAD Layer			
120 Spatial Containment			
200 Material			
200-1 Single Material			










403 IfcFooting	<i>company statement</i>		<i>RandomStruc-X5 RST / 2x3</i>
001 GUIDs			
002 History		History of objects is not supported in Dlubal Software.	
010 Naming			
020 Placement			
020-1 Placement Relative			
050 CAD Layer			
120 Spatial Containment			
200 Material			
200-1 Single Material			
408 IfcElementAssembly	<i>company statement</i>		<i>RandomStruc-X5 RST / 2x3</i>
001 GUIDs			
002 History		History of objects is not supported in Dlubal Software.	
010 Naming			
020 Placement			
020-2 Placement Relative			
General	<i>company statement</i>		<i>RandomStruc-X5 RST / 2x3</i>
_G4 Remarks			

**Roof 01 / 2x3**

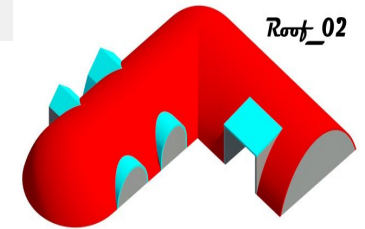


101 IfcWallStandardCase	<i>company statement</i>		<i>Roof 01 / 2x3</i>
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
030-6-2 Geometry Clipping	■		
105 IfcSlab	<i>company statement</i>		<i>Roof 01 / 2x3</i>
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
030-6-2 Geometry Clipping	■		
030-6-9 Geometry Mapped	■		
070 Voiding			
070-3 Voiding Geometry SweptSolid	■		
080 Filling			
080-1 Has Filling			
080-1-2 Has Filling Window	■	Entity IfcWindow is not relevant for a structural analysis software and is not supported.	
200 Material			
200-2 Material Layer Set	■		
110 IfcRoof	<i>company statement</i>		<i>Roof 01 / 2x3</i>

030 Geometry <i>030-1 Geometry Box</i>	 IfcShapeRepresentation of this type is not supported.
040 Presentation 040-1 Geometric Presentation 040-2 Material Presentation	 Only color of the surface is taken, the rest is ignored.  Only color of the material is taken, the rest is ignored. Also if geometric color is defined, material's color is ignored too.
100 Element Aggregation 100-2 Element Decomposition	 The roof components are imported correctly, but cannot be selected individually.
120 Spatial Containment	
200 Material 200-1 Single Material	
General	<i>company statement</i>
<i>_G4 Remarks</i>	

Roof 01 / 2x3

**Roof 02 / 2x3**



101 IfcWallStandardCase		<i>company statement</i>	<i>Roof 02 / 2x3</i>
010 Naming	■		
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
030-6-2 Geometry Clipping	■		
050 CAD Layer	■		
110 IfcRoof		<i>company statement</i>	<i>Roof 02 / 2x3</i>
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	■		
210 Property Set			
210-1 Property Set IFC Common	■		
210-3 Property Set User Defined	■		

General

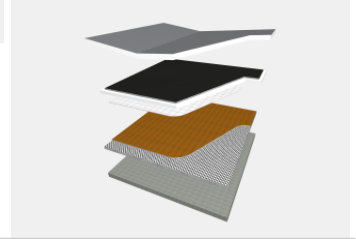
*company statement*

Roof 02 / 2x3

\_G4 Remarks

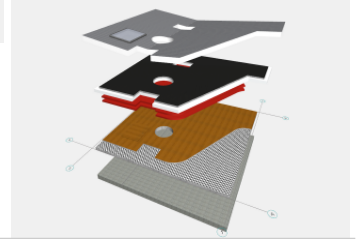


**Slab 01A / 2x3**



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

**Slab 02A / 2x3**

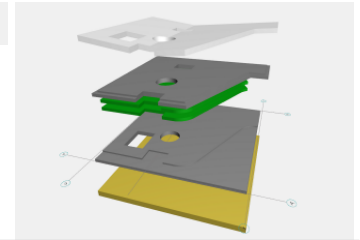


105 IfcSlab	<i>company statement</i>		<i>Slab 02A / 2x3</i>
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-1 Geometry Box	■	IfcShapeRepresentation of this type is not supported.	
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
030-6-2 Geometry Clipping	■		
030-6-5 Geometry Explicit	■		
030-6-9 Geometry Mapped	■		
070 Voiding			
070-1 Voiding Geometry Explicit	■		
070-2 Voiding Geometry Mapped	■		
070-3 Voiding Geometry SweptSolid	■		
080 Filling			
080-1 Has Filling			
080-1-1 Has Filling Door	■	Entity IfcDoor is not relevant for a structural analysis software and not supported.	
080-1-2 Has Filling Window	■	Entity IfcWindow is not relevant for a structural analysis software and not supported.	
120 Spatial Containment	■		

130 Grouping			
130-1 Grouping General		■	
200 Material			
200-1 Single Material		■	
200-2 Material 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		■	
300-2 Type Naming		■	
300-3 Type Material		■	
300-5 Type Property Set		■	
General			<i>company statement</i>
_G4 Remarks		■	
			<i>Slab 02A / 2x3</i>



## Slab 02S / 2x3



Slab 02S / 2x3

105 IfcSlab	<i>company statement</i>	
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-1 Geometry Box	■	IfcShapeRepresentation of this type is not supported.
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
030-6-2 Geometry Clipping	■	
030-6-5 Geometry Explicit	■	
030-6-9 Geometry Mapped	■	
070 Voiding		
070-1 Voiding Geometry Explicit	■	
070-2 Voiding Geometry Mapped	■	
070-3 Voiding Geometry SweptSolid	■	
120 Spatial Containment	■	
130 Grouping		
130-1 Grouping General	■	

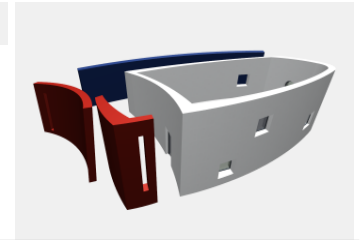
200 Material			
200-1 Single Material	■		
200-2 Material Layer Set	■		
210 Property Set			
210-1 Property Set IFC Common	■		
210-2 Property Set IFC any	■		
210-3 Property Set User Defined	■		
300 Type			
300-1 Type Geometry	■		
300-2 Type Naming	■		
300-3 Type Material	■		
300-5 Type Property Set	■		
General		<i>company statement</i>	<i>Slab 02S / 2x3</i>
_G4 Remarks	■		

**UnitTest-01S / 2x3**



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

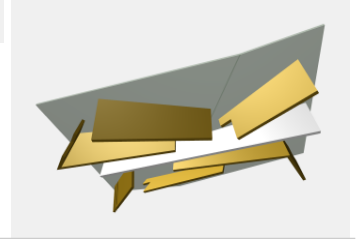
## Wall 01 / 2x3



102 IfcWall	<i>company statement</i>	Wall 01 / 2x3
002 History	<span style="color: red;">■</span> The history of objects is not supported.	
010 Naming	<span style="color: green;">■</span>	
020 Placement 020-2 Placement Relative	<span style="color: green;">■</span>	
030 Geometry 030-6 Geometry Body 030-6-1 Geometry SweptSolid 030-6-2 Geometry Clipping 030-6-5 Geometry Explicit	<span style="color: green;">■</span> <span style="color: green;">■</span> <span style="color: green;">■</span>	
040 Presentation 040-1 Geometric Presentation 040-2 Material Presentation	<span style="color: yellow;">■</span> Only color of the surface is supported, the rest is ignored. <span style="color: yellow;">■</span> Only color of the material is taken, the rest is ignored. Also if geometric color is defined, material's color is ignored too.	
070 Voiding 070-1 Voiding Geometry Explicit 070-3 Voiding Geometry SweptSolid	<span style="color: green;">■</span> <span style="color: green;">■</span>	
080 Filling 080-1 Has Filling 080-1-1 Has Filling Door 080-1-2 Has Filling Window	<span style="color: red;">■</span> IfcDoor is not relevant for a structural analysis software and not supported. <span style="color: red;">■</span> IfcWindow is not relevant for a structural analysis software and not supported.	

200 Material			
200-1 Single Material		■	
210 Property Set			
210-1 Property Set IFC Common		■	
300 Type			
300-3 Type Material		■	
300-5 Type Property Set		■	
301 IfcWindow			<i>company statement</i> <span style="float: right;"><i>Wall 01 / 2x3</i></span>
020 Placement			
020-2 Placement Relative		■	IfcWindow is not relevant for a structural analysis software and not supported.
302 IfcDoor			<i>company statement</i> <span style="float: right;"><i>Wall 01 / 2x3</i></span>
020 Placement			
020-2 Placement Relative		■	IfcDoor is not relevant for a structural analysis software and not supported.
General			<i>company statement</i> <span style="float: right;"><i>Wall 01 / 2x3</i></span>
_G4 Remarks		■	

Wall 02 / 2x3

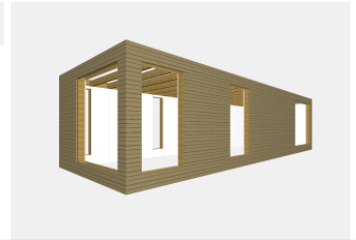


102 IfcWall	<i>company statement</i>		<i>Wall 02 / 2x3</i>
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-2 Geometry Axis	■	IfcShapeRepresentation 'Axis' is not supported.	
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
030-6-2 Geometry Clipping	■		
030-6-5 Geometry Explicit	■		
050 CAD Layer	■		
070 Voiding			
070-1 Voiding Geometry Explicit	■		
070-3 Voiding Geometry SweptSolid	■		
120 Spatial Containment	■		
130 Grouping			
130-1 Grouping General	■		
200 Material			
200-3 Material Layer Set	■		

300 Type		
300-2 Type Naming	■	
General		<i>company statement</i>
_G4 Remarks	■	













Wall 02 / 2x3





## WallSlab 03 / 2x3



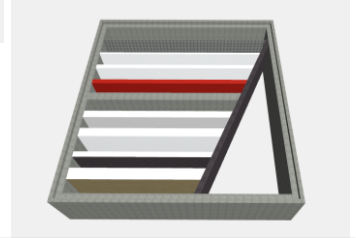
102 IfcWall	<i>company statement</i>		<i>WallSlab 03 / 2x3</i>
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-9 Geometry By Components	■		
070 Voiding			
070-3 Voiding Geometry SweptSolid	■		
100 Element Aggregation			
100-2 Element Decomposition	■		
210 Property Set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



501 IfcProject	<i>company statement</i>		WallSlab 03 / 2x3
001 GUIDs			
002 History		The history of objects is not supported.	
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		The history of objects is not supported.	
010 Naming			
020 Placement			
020-1 Placement Absolute			
150 Spatial Aggregation			
150-1 Spatial Composition			
150-2 Spatial Decomposition			
504 IfcBuildingStorey	<i>company statement</i>		WallSlab 03 / 2x3
001 GUIDs			
002 History		The history of objects is not supported.	
010 Naming			

020 Placement			
020-2 Placement Relative			
150 Spatial Aggregation			
150-1 Spatial Composition			
150-2 Spatial Decomposition			
505 IfcSpace		<i>company statement</i>	<i>WallSlab 03 / 2x3</i>
010 Naming		ifcSpace is not supported.	
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid		ifcSpace is not supported.	
General		<i>company statement</i>	<i>WallSlab 03 / 2x3</i>
_G4 Remarks			

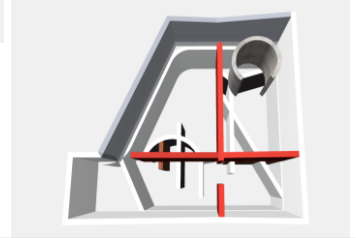
## WallStandardCase 01A / 2x3



101 IfcWallStandardCase	<i>company statement</i>	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 030-6-2 Geometry Clipping	<p>■ IfcShapeRepresentation 'Axis' is not supported.</p> <p>■</p> <p>■</p>	
040 Presentation 040-1 Geometric Presentation 040-2 Material Presentation	<p>■ Only color of the surface is supported, the rest is ignored.</p> <p>■ Only color of the material is supported, the rest is ignored. Also if geometric color is defined, material's color is ignored too.</p>	
050 CAD Layer	■	
110 Connectivity 110-2 Connectivity Path	■ IfcRelConnectsPathElements is not supported.	
120 Spatial Containment	■	
200 Material 200-4 Material Layer Usage	■	
210 Property Set 210-3 Property Set User Defined	■	

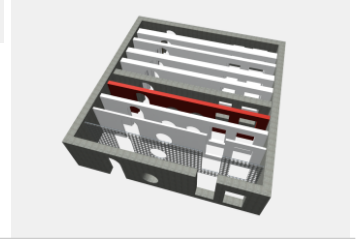
300 Type		
300-3 Type Material	■	
300-5 Type Property Set	■	
General		<i>company statement</i> <span style="float: right;"><i>WallStandardCase 01A / 2x3</i></span>
_G4 Remarks	■	

## WallStandardCase 02S / 2x3



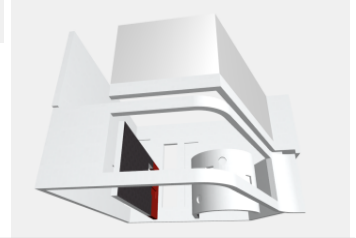
101 IfcWallStandardCase	<i>company statement</i>		<i>WallStandardCase 02S / 2x3</i>
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-2 Geometry Axis	■	IfcShapeRepresentation 'Axis' is not supported.	
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
030-6-2 Geometry Clipping	■		
050 CAD Layer	■		
110 Connectivity			
110-2 Connectivity Path	■	IfcRelConnectsPathElements is not supported.	
120 Spatial Containment	■		
200 Material			
200-4 Material Layer Usage	■		
210 Property Set			
210-1 Property Set IFC Common	■		
General	<i>company statement</i>		<i>WallStandardCase 02S / 2x3</i>
_G4 Remarks	■		

## WallStandardCase 03A / 2x3



101 IfcWallStandardCase	<i>company statement</i>		<i>WallStandardCase 03A / 2x3</i>
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-2 Geometry Axis	■	IfcShapeRepresentation 'Axis' is not supported.	
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
070 Voiding			
070-1 Voiding Geometry SweptSolid	■		
070-2 Voiding Geometry Explicit	■		
070-3 Voiding Geometry Mapped	■		
120 Spatial Containment	■		
General	<i>company statement</i>		<i>WallStandardCase 03A / 2x3</i>
_G4 Remarks	■		

WallStandardCase 04S / 2x3



101 IfcWallStandardCase	<i>company statement</i>		WallStandardCase 04S / 2x3
010 Naming	■		
030 Geometry			
030-2 Geometry Axis	■	IfcShapeRepresentation 'Axis' is not supported.	
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	<i>company statement</i>		WallStandardCase 04S / 2x3
_G4 Remarks	■		