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Introduction

cadwork Lexocad is available as a standalone system, as well as part of the cadwork 3D CAD/CAM suite. Since Version 24 the certified release of the IFC Import is available. Updates are done continuously and will be offered as a download service.

cadwork Lexocad is designed to guide you through the BIM process with emphasis to OPEN BIM. In an easy way you can browse through all information exchanged from other BIM-compliant software, using IFC format files (IFC2X3 schema in formats .ifc and .ifcZIP is supported).

The program allows you to see all types of geometry presented in 3D, either full production visualization or just schematic simplification. In cadwork Lexocad you can natively work with several aspects of BIM philosophy like spatial structure containment, material assignments, custom property definitions, grouping, relative/absolute placements, voiding/filling relationships etc. Other concepts are obtainable by referencing information stored in IFC file.

Testlist

Name test	concepts total	manually checked
BeamColumn 04 / 2x3	47	47
Beam_02 / 2x3	12	12
Column 01 / 2x3	11	11
CoveringFurnishing-01 / 2x3	57	56 1
CurtainWall-01 / 2x3	29	29
Door 01 / 2x3	22	22
DoorWindow-02 / 2x3	11	11
DuplexHouse_Electrical / 2x3	65	65
DuplexHouse_Heating / 2x3	56	56
Grid 01 / 2x3	11	11
Member 01A / 2x3	10	10
Pile 01 / 2x3	19	19
PlateFastener-01 / 2x3	67	67
RampRailing-01 / 2x3	28	28
RampSlab-01 / 2x3	18	18
RandomArch-X1 RAC / 2x3	17	17
RandomArch-X2 Allplan2013 / 2x3	11	11
Reinforcement-01 / 2x3	94	94
Roof 02 / 2x3	12	12
Site 01 / 2x3	14	14
Slab 01A / 2x3	9	9
Slab 01S / 2x3	11	11
Slab 02A / 2x3	24	24
Space 01A / 2x3	12	12
StairSlab-01 / 2x3	19	19
UnitTest-01A / 2x3	3	3



Supported



Restricted

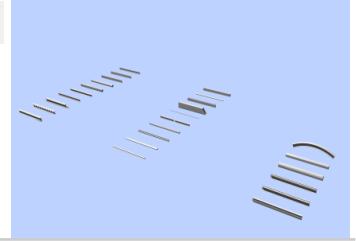


Not Supported

Name test	concepts total	manually checked
Wall 02 / 2x3	14	14
WallSlab 03 / 2x3	32	32
WallStandardCase 01A / 2x3	15	15
WallStandardCase 02S / 2x3	11	11
WallStandardCase 04A / 2x3	8	8
Window 01 / 2x3	22	22

Concepts

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		■	
070-2 Voiding Geometry Mapped		■	
070-3 Voiding Geometry SweptSolid		■	
120 Spatial Containment		■	
200 Material			
200-1 Single Material		■	
General	company statement		Beam_02 / 2x3
_G4 Remarks		■	

BeamColumn 04 / 2x3



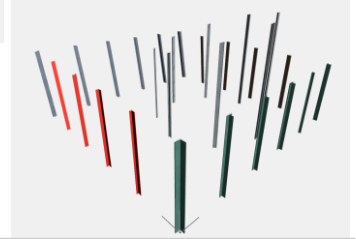
103 IfcBeam	company statement		BeamColumn 04 / 2x3
001 GUIDs		■	
002 History		■	
010 Naming		■	
020 Placement			
020-2 Placement Relative		■	
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid		■	
030-6-9 Geometry Mapped		■	
070 Voiding			
070-1 Voiding Geometry Explicit		■	
070-2 Voiding 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> <i>BeamColumn 04 / 2x3</i>
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	■
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>
	<i>BeamColumn 04 / 2x3</i>
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	■

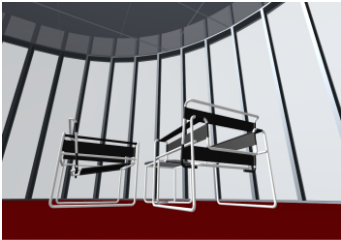
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300-1 Type Geometry	■
300-2 Type Naming	■
300-3 Type Material	■
300-5 Type Property Set	■
General	company statement
_G4 Remarks	■

Column 01 / 2x3



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

CoveringFurnishing-01 / 2x3



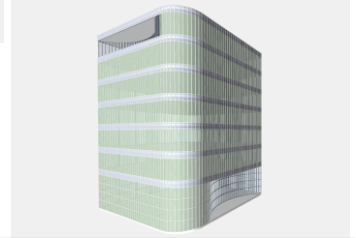
210 IfcFlowTerminal	company statement		CoveringFurnishing-01 / 2x3
001 GUIDs		■	
010 Naming		■	
020 Placement			
020-2 Placement Relative		■	
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit		■	
030-6-9 Geometry Mapped		■	
040 Presentation			
040-1 Geometric Presentation		■	
050 CAD Layer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

300 Type	
300-1 Type Geometry	■
300-2 Type Naming	■
300-3 Type Material	■
300-5 Type Property Set	■
303 IfcCovering	<i>company statement</i> 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	■
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	■
300-2 Type Naming	■
300-3 Type Material	■
300-5 Type Property Set	■
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	■
030-6-9 Geometry Mapped	■
040 Presentation	
040-1 Geometric Presentation	■
050 CAD Layer	■
120 Spatial Containment	■
200 Material	
200-1 Single Material	■
200-5 Material List	■
210 Property Set	
210-6 Property Set IFC any	■
210-9 Property Set User Defined	■

300 Type		
300-1 Type Geometry	■	
300-2 Type Naming	■	
300-3 Type Material	■	
300-5 Type Property Set	■	
505 IfcSpace	company statement	CoveringFurnishing-01 / 2x3
030 Geometry		
030-3 Geometry FootPrint	■	
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
120 Spatial Containment	■	
130 Grouping		
130-3 Grouping to Zones	■	
230 Classification	■	
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	■	
210-9 Property Set User Defined	■	
General	company statement	CoveringFurnishing-01 / 2x3
_G4 Remarks	■	

CurtainWall-01 / 2x3

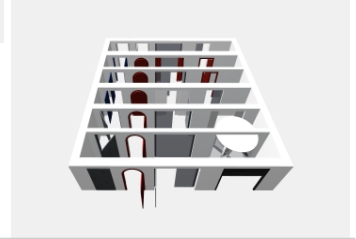


109 IfcCurtainWall	company statement		CurtainWall-01 / 2x3
001 GUIDs		■	
002 History		■	
010 Naming		■	
020 Placement			
020-1 Placement Relative		■	
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit		■	
030-9 Geometry By Components		■	
040 Presentation			
040-1 Geometric Presentation		■	
050 CAD Layer		■	
100 Element Aggregation			
100-2 Element Decomposition		■	
120 Spatial Containment		■	
200 Material			
200-1 Single Material		■	
200-5 Material List		■	

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	■	
501 IfcProject		<i>company statement</i> CurtainWall-01 / 2x3
010 Naming	■	
502 IfcSite		<i>company statement</i> CurtainWall-01 / 2x3
010 Naming	■	
060 Location		
060-1 Geographic Location	■	
060-2 Address	■	
503 IfcBuilding		<i>company statement</i> CurtainWall-01 / 2x3
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
504 IfcBuildingStorey		<i>company statement</i> 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
_G4 Remarks	■	

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		■	
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	■
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	■

Door 01 / 2x3

DoorWindow-02 / 2x3



301 IfcWindow	company statement		DoorWindow-02 / 2x3
001 GUIDs	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit	■		
080 Filling			
080-2 Is Filling	■		
300 Type			
300-1 Type Geometry	■		
302 IfcDoor	company statement		DoorWindow-02 / 2x3
001 GUIDs	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit	■		
080 Filling			
080-2 Is Filling	■		

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

DuplexHouse_Electrical / 2x3



204 IfcEnergyConversionDevice	company statement		DuplexHouse_Electrical / 2x3
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit	■		
030-6-9 Geometry Mapped	■		
100 Element Aggregation			
100-4 Port Assignment	■		
110 Connectivity			
110-5 Connectivity by Ports	■		
120 Spatial Containment	■		
130 Grouping			
130-2 Grouping to Systems	■		
300 Type			
300-1 Type Geometry	■		
300-2 Type Naming	■		
205 IfcFlowController	company statement		DuplexHouse_Electrical / 2x3
010 Naming	■		

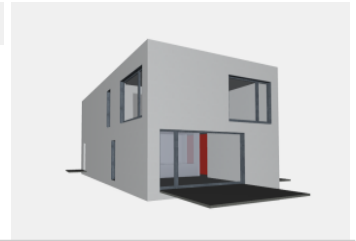
020 Placement	
020-2 Placement Relative	■
030 Geometry	
030-6 Geometry Body	
030-6-5 Geometry Explicit	■
030-6-9 Geometry Mapped	■
100 Element Aggregation	
100-4 Port Assignment	■
110 Connectivity	
110-5 Connectivity by Ports	■
120 Spatial Containment	■
130 Grouping	
130-2 Grouping to Systems	■
300 Type	
300-1 Type Geometry	■
300-2 Type Naming	■
206 IfcFlowFitting	<i>company statement</i>
	<i>DuplexHouse_Electrical / 2x3</i>
010 Naming	■
020 Placement	
020-2 Placement Relative	■
030 Geometry	
030-6 Geometry Body	
030-6-5 Geometry Explicit	■
030-6-9 Geometry Mapped	■

100 Element Aggregation	
100-4 Port Assignment	■
110 Connectivity	
110-5 Connectivity by Ports	■
120 Spatial Containment	■
130 Grouping	
130-2 Grouping to Systems	■
300 Type	
300-1 Type Geometry	■
300-2 Type Naming	■
208 IfcFlowSegment	<i>company statement</i>
	<i>DuplexHouse_Electrical / 2x3</i>
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	■
100 Element Aggregation	
100-4 Port Assignment	■
110 Connectivity	
110-5 Connectivity by Ports	■
120 Spatial Containment	■

130 Grouping	
130-2 Grouping to Systems	■
300 Type	
300-1 Type Geometry	■
300-2 Type Naming	■
210 IfcFlowTerminal	<i>company statement</i> DuplexHouse_Electrical / 2x3
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	■
100 Element Aggregation	
100-4 Port Assignment	■
110 Connectivity	
110-5 Connectivity by Ports	■
120 Spatial Containment	■
130 Grouping	
130-2 Grouping to Systems	■

210 Property Set			
210-1 Property Set IFC Common		■	
210-6 Property Set IFC any		■	
210-9 Property Set User Defined		■	
300 Type			
300-1 Type Geometry		■	
300-2 Type Naming		■	
501 IfcProject		<i>company statement</i>	<i>DuplexHouse_Electrical / 2x3</i>
010 Naming		■	
503 IfcBuilding		<i>company statement</i>	<i>DuplexHouse_Electrical / 2x3</i>
010 Naming		■	
504 IfcBuildingStorey		<i>company statement</i>	<i>DuplexHouse_Electrical / 2x3</i>
010 Naming		■	
020 Placement			
020-2 Placement Relative		■	
150 Spatial Aggregation			
150-1 Spatial Composition		■	
507 IfcSystem		<i>company statement</i>	<i>DuplexHouse_Electrical / 2x3</i>
010 Naming		■	
130 Grouping			
130-2 Grouping to Systems		■	
130-5 Is Group		■	
General		<i>company statement</i>	<i>DuplexHouse_Electrical / 2x3</i>
_G4 Remarks		■	

DuplexHouse_Heating / 2x3



204 IfcEnergyConversionDevice	company statement		DuplexHouse_Heating / 2x3
010 Naming		■	
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit		■	
030-6-9 Geometry Mapped		■	
040 Presentation			
040-1 Geometric Presentation		■	
100 Element Aggregation			
100-4 Port Assignment		■	
110 Connectivity			
110-5 Connectivity by Ports		■	
130 Grouping			
130-2 Grouping to Systems		■	
300 Type			
300-1 Type Geometry		■	
300-5 Type Property Set		■	
205 IfcFlowController	company statement		DuplexHouse_Heating / 2x3
010 Naming		■	

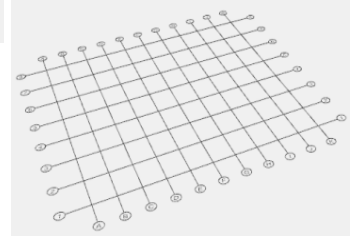
030 Geometry	
030-6 Geometry Body	
030-6-5 Geometry Explicit	■
030-6-9 Geometry Mapped	■
040 Presentation	
040-1 Geometric Presentation	■
100 Element Aggregation	
100-4 Port Assignment	■
110 Connectivity	
110-5 Connectivity by Ports	■
130 Grouping	
130-2 Grouping to Systems	■
300 Type	
300-1 Type Geometry	■
300-5 Type Property Set	■
206 IfcFlowFitting	<i>company statement</i>
010 Naming	■
030 Geometry	
030-6 Geometry Body	
030-6-5 Geometry Explicit	■
030-6-9 Geometry Mapped	■
040 Presentation	
040-1 Geometric Presentation	■
100 Element Aggregation	
100-4 Port Assignment	■

110 Connectivity		
110-5 Connectivity by Ports	■	
130 Grouping		
130-2 Grouping to Systems	■	
300 Type		
300-1 Type Geometry	■	
300-5 Type Property Set	■	
207 IfcFlowMovingDevice	company statement DuplexHouse_Heating / 2x3	
010 Naming	■	
030 Geometry		
030-6 Geometry Body		
030-6-5 Geometry Explicit	■	
030-6-9 Geometry Mapped	■	
040 Presentation		
040-1 Geometric Presentation	■	
100 Element Aggregation		
100-4 Port Assignment	■	
110 Connectivity		
110-5 Connectivity by Ports	■	
130 Grouping		
130-2 Grouping to Systems	■	
300 Type		
300-1 Type Geometry	■	
300-5 Type Property Set	■	
208 IfcFlowSegment	company statement DuplexHouse_Heating / 2x3	

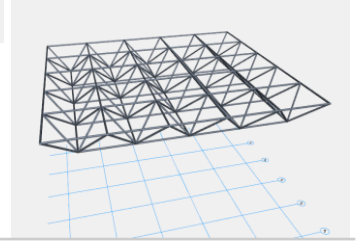
010 Naming	■
030 Geometry	
030-6 Geometry Body	
030-6-1 Geometry SweptSolid	■
030-6-5 Geometry Explicit	■
030-6-9 Geometry Mapped	■
040 Presentation	
040-1 Geometric Presentation	■
100 Element Aggregation	
100-4 Port Assignment	■
110 Connectivity	
110-5 Connectivity by Ports	■
130 Grouping	
130-2 Grouping to Systems	■
300 Type	
300-1 Type Geometry	■
300-5 Type Property Set	■
210 IfcFlowTerminal	<i>company statement</i>
010 Naming	■
030 Geometry	
030-6 Geometry Body	
030-6-5 Geometry Explicit	■
030-6-9 Geometry Mapped	■
040 Presentation	
040-1 Geometric Presentation	■

100 Element Aggregation	
100-4 Port Assignment	■
110 Connectivity	
110-5 Connectivity by Ports	■
130 Grouping	
130-2 Grouping to Systems	■
300 Type	
300-1 Type Geometry	■
300-5 Type Property Set	■
General	<i>company statement</i>
<i>_G4 Remarks</i>	■

Grid 01 / 2x3

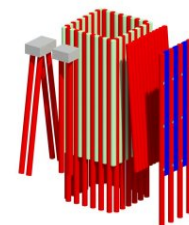


509 IfcGrid	company statement		Grid 01 / 2x3
001 GUIDs	■		
002 History	■		
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-3 Geometry FootPrint	■		
040 Presentation			
040-1 Geometric Presentation	■		
050 CAD Layer	■		
120 Spatial Containment	■		
210 Property Set			
210-3 Property Set User Defined	■		
270 Grid Usage			
270-1 Grid Axes	■		
General	company statement		Grid 01 / 2x3
_G4 Remarks	■		

Member 01A / 2x3

401 IfcMember	company statement		Member 01A / 2x3
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
030-6-2 Geometry Clipping	■		
040 Presentation			
040-1 Geometric Presentation	■		
040-2 Material Presentation	■		
120 Spatial Containment	■		
200 Material			
200-1 Single Material	■		
300 Type			
300-1 Type Geometry	■		
General	company statement		Member 01A / 2x3
_G4 Remarks	■		

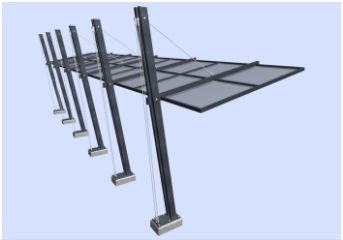
Pile 01 / 2x3



404 IfcPile	company statement		Pile 01 / 2x3
001 GUIDs		■	
002 History		■	
010 Naming		■	
020 Placement			
020-1 Placement Relative		■	
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid		■	
030-6-2 Geometry Clipping		■	
030-6-9 Geometry Mapped		■	
040 Presentation			
040-1 Geometric Presentation		■	
040-2 Material Presentation		■	
050 CAD Layer		■	
070 Voiding			
070-3 Voiding Geometry SweptSolid		■	
100 Element Aggregation			
100-2 Element Decomposition		■	
120 Spatial Containment		■	

200 Material	
200-1 Single Material	■
210 Property Set	
210-3 Property Set User Defined	■
300 Type	
300-1 Type Geometry	■
300-3 Type Material	■
300-5 Type Property Set	■
General	<i>company statement</i>
_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		■	
210 Property Set			
210-3 Property Set User Defined		■	

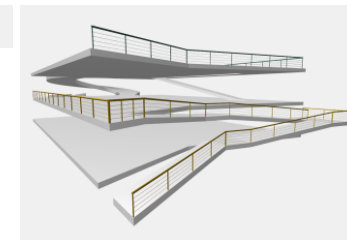
300 Type		
300-1 Type Geometry	■	
300-2 Type Naming	■	
300-3 Type Material	■	
300-5 Type Property Set	■	
401 IfcMember	company statement PlateFastener-01 / 2x3	
001 GUIDs	■	
002 History	■	
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-6 Geometry Body		
030-6-1 Geometry SweptSolid	■	
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	■	
300-5 Type Property Set	■	
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	■
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	■	
300-2 Type Naming	■	
300-3 Type Material	■	
300-5 Type Property Set	■	
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	■
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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	■
300-2 Type Naming	■
300-3 Type Material	■
300-5 Type Property Set	■
General	company statement
_G4 Remarks	■

RampRailing-01 / 2x3

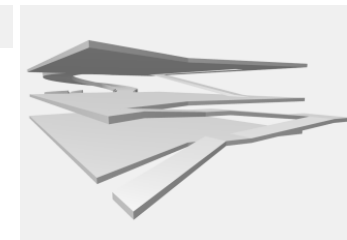


107 IfcRamp	company statement		RampRailing-01 / 2x3
001 GUIDs		■	
002 History		■	
010 Naming		■	
020 Placement			
020-1 Placement Relative		■	
030 Geometry			
030-6 Geometry Body			
030-6-5 Geometry Explicit		■	
030-9 Geometry By Components		■	
040 Presentation			
040-1 Geometric Presentation		■	
050 CAD Layer		■	
100 Element Aggregation			
100-2 Element Decomposition		■	
120 Spatial Containment		■	
200 Material			
200-1 Single Material		■	

210 Property Set		
210-1 Property Set IFC Common	■	
210-3 Property Set User Defined	■	
108 IfcRailing	company statement	RampRailing-01 / 2x3
001 GUIDs	■	
002 History	■	
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	■	
200-5 Material List	■	
210 Property Set		
210-1 Property Set IFC Common	■	
210-3 Property Set User Defined	■	
General	company statement	RampRailing-01 / 2x3

<i>_G4 Remarks</i>	
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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		■	

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	company statement
_G4 Remarks	■

RandomArch-X1 RAC / 2x3

102 IfcWall	company statement		RandomArch-X1 RAC / 2x3
040 Presentation			
070 Voiding			
070-3 Voiding Geometry SweptSolid		■	
080 Filling			
080-1 Has Filling			
080-1-1 Has Filling Door		■	
080-1-2 Has Filling Window		■	
100 Element Aggregation			
100-1 Element Composition		■	
100-2 Element Decomposition		■	
200 Material			
200-1 Single Material		■	
200-3 Material Layer Set		■	
210 Property Set			
210-1 Property Set IFC Common		■	
105 IfcSlab	company statement		RandomArch-X1 RAC / 2x3
040 Presentation			

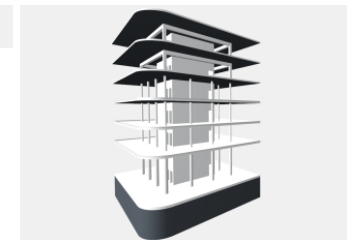
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100-1 Element Composition	■	
100-2 Element Decomposition	■	
200 Material		
200-1 Single Material	■	
210 Property Set		
210-1 Property Set IFC Common	■	
110 IfcRoof	company statement RandomArch-X1 RAC / 2x3	
040 Presentation		
100 Element Aggregation		
100-1 Element Composition	■	
100-2 Element Decomposition	■	
200 Material		
200-1 Single Material	■	
210 Property Set		
210-1 Property Set IFC Common	■	
General	company statement RandomArch-X1 RAC / 2x3	
_G4 Remarks	■	

RandomArch-X2 Allplan2013 / 2x3

303 IfcCovering		company statement	RandomArch-X2 Allplan2013 / 2x3
010 Naming			
020 Placement			
020-2 Placement Relative			
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid			
040 Presentation			
040-2 Material Presentation			
050 CAD Layer			
120 Spatial Containment			
200 Material			
200-3 Material Layer Set			
505 IfcSpace		company statement	RandomArch-X2 Allplan2013 / 2x3
010 Naming			
020 Placement			
020-2 Placement Relative			
030 Geometry			
030-6 Geometry Body			
030-6-2 Geometry Clipping			

General	company statement	RandomArch-X2 Allplan2013 / 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		■	

120 Spatial Containment		
105 IfcSlab		<i>company statement</i> 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		<i>company statement</i> 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		<i>company statement</i> 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	■
120 Spatial Containment	■
200 Material	
200-1 Single Material	■
210 Property Set	
210-9 Property Set User Defined	■
300 Type	
300-1 Type Geometry	■
300-2 Type Naming	■
300-3 Type Material	■
300-5 Type Property Set	■
408 IfcElementAssembly	<i>company statement</i>
001 GUIDs	■
010 Naming	■
020 Placement	
020-2 Placement Relative	■
030 Geometry	
030-6 Geometry Body	
030-9 Geometry By Components	■

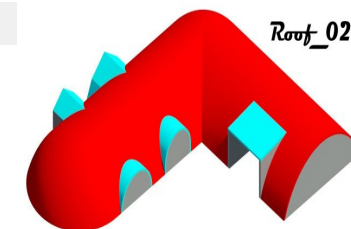
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040-1 Geometric Presentation	■	
050 CAD Layer	■	
100 Element Aggregation		
100-2 Element Decomposition	■	
120 Spatial Containment	■	
210 Property Set		
210-9 Property Set User Defined	■	
409 IfcReinforcingBar	company statement Reinforcement-01 / 2x3	
001 GUIDs	■	
010 Naming	■	
020 Placement		
020-2 Placement Relative	■	
030 Geometry		
030-6 Geometry Body		
030-6-4 Geometry AdvancedSweptSolid	■	
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	■
300-2 Type Naming	■
300-3 Type Material	■
300-5 Type Property Set	■
410 IfcReinforcingMesh	<i>company statement</i> Reinforcement-01 / 2x3
001 GUIDs	■
010 Naming	■
020 Placement	
020-2 Placement Relative	■
030 Geometry	
030-6 Geometry Body	
030-6-4 Geometry AdvancedSweptSolid	■
030-6-5 Geometry Explicit	■
030-6-9 Geometry Mapped	■
040 Presentation	
040-1 Geometric Presentation	■
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	■	
300-2 Type Naming	■	
300-3 Type Material	■	
300-5 Type Property Set	■	
501 IfcProject	<i>company statement</i>	<i>Reinforcement-01 / 2x3</i>
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>	<i>Reinforcement-01 / 2x3</i>
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		<i>company statement</i> 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	■	
General		<i>company statement</i> Reinforcement-01 / 2x3
_G4 Remarks	■	

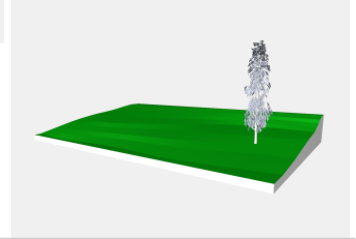
Roof 02 / 2x3



101 IfcWallStandardCase		<i>company statement</i>	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		<i>company statement</i>	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	■		
210 Property Set			
210-1 Property Set IFC Common	■		
210-3 Property Set User Defined	■		

General	company statement	Roof 02 / 2x3
_G4 Remarks		

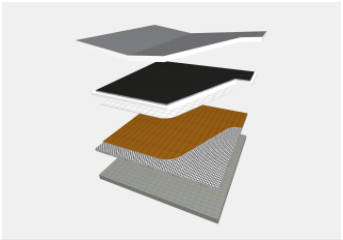
Site 01 / 2x3



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		■	

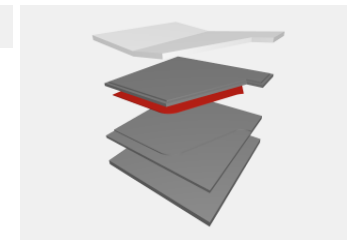
General	company statement	Site 01 / 2x3
_G4 Remarks		

Slab 01A / 2x3



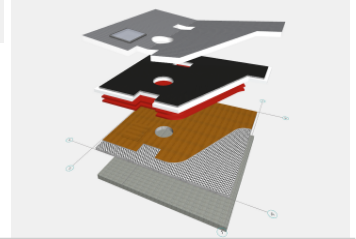
105 IfcSlab		company statement	Slab 01A / 2x3
010 Naming		■	
020 Placement			
020-2 Placement Relative		■	
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid		■	
030-6-2 Geometry Clipping		■	
050 CAD Layer		■	
200 Material			
200-2 Material Layer Set		■	
200-3 Material Layer Usage		■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

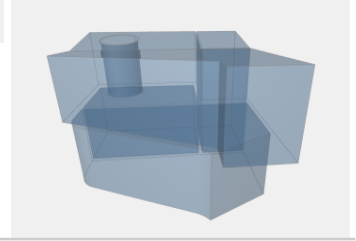
Slab 02A / 2x3



105 IfcSlab	company statement		Slab 02A / 2x3
010 Naming		■	
020 Placement			
020-2 Placement Relative		■	
030 Geometry			
030-1 Geometry Box		■	
030-6 Geometry Body			
030-6-1 Geometry SweptSolid		■	
030-6-2 Geometry Clipping		■	
030-6-5 Geometry Explicit		■	
030-6-9 Geometry Mapped		■	
070 Voiding			
070-1 Voiding Geometry Explicit		■	
070-2 Voiding Geometry Mapped		■	
070-3 Voiding Geometry SweptSolid		■	
080 Filling			
080-1 Has Filling			
080-1-1 Has Filling Door		■	
080-1-2 Has Filling Window		■	
120 Spatial Containment		■	

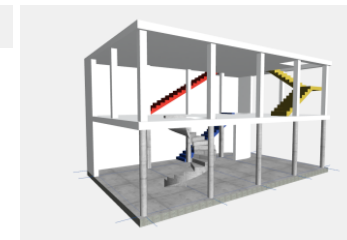
130 Grouping	
130-1 Grouping General	■
200 Material	
200-1 Single Material	■
200-2 Material Layer Set	■
210 Property Set	
210-1 Property Set IFC Common	■
210-2 Property Set IFC any	■
210-3 Property Set User Defined	■
300 Type	
300-1 Type Geometry	■
300-2 Type Naming	■
300-3 Type Material	■
300-5 Type Property Set	■
General	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	■		
040 Presentation			
040-1 Geometric Presentation	■		
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	■		

StairSlab-01 / 2x3

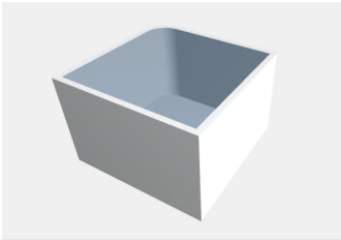


105 IfcSlab	company statement		StairSlab-01 / 2x3
001 GUIDs	■		
002 History	■		
030 Geometry			
030-6 Geometry Body			
030-6-1 Geometry SweptSolid	■		
040 Presentation			
040-1 Geometric Presentation	■		
040-2 Material Presentation	■		
070 Voiding			
070-3 Voiding Geometry SweptSolid	■		
106 IfcStair	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
_G4 Remarks	■

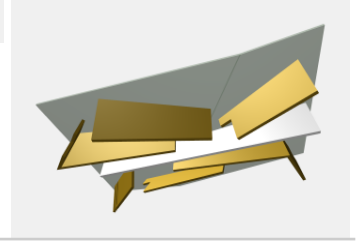
StairSlab-01 / 2x3

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	■		

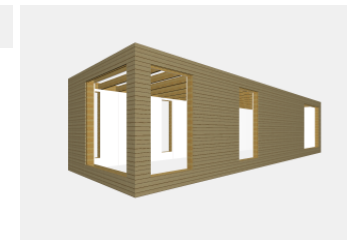
Wall 02 / 2x3



102 IfcWall	company statement		Wall 02 / 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		■	
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		company statement	Wall 02 / 2x3
_G4 Remarks	■		

WallSlab 03 / 2x3

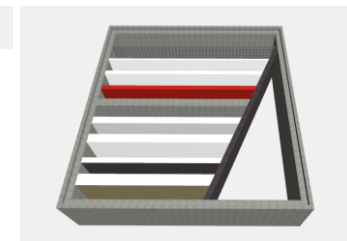


102 IfcWall	company statement		WallSlab 03 / 2x3
010 Naming	■		
020 Placement			
020-2 Placement Relative	■		
030 Geometry			
030-9 Geometry By Components	■		
070 Voiding			
070-3 Voiding Geometry SweptSolid	■		
100 Element Aggregation			
100-2 Element Decomposition	■		
210 Property Set			
210-1 Property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

501 IfcProject		company statement	WallSlab 03 / 2x3
001 GUIDs	■		
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	WallSlab 03 / 2x3
001 GUIDs	■		
002 History	■		
010 Naming	■		
020 Placement			
020-1 Placement Absolute	■		
150 Spatial Aggregation			
150-1 Spatial Composition	■		
150-2 Spatial Decomposition	■		
504 IfcBuildingStorey		company statement	WallSlab 03 / 2x3
001 GUIDs	■		
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	■	

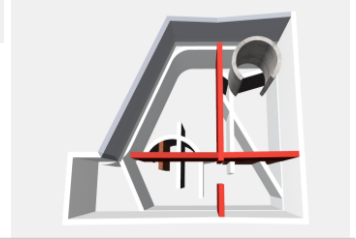
WallStandardCase 01A / 2x3



101 IfcWallStandardCase	company statement		WallStandardCase 01A / 2x3
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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		■	
210 Property Set			
210-3 Property Set User Defined		■	

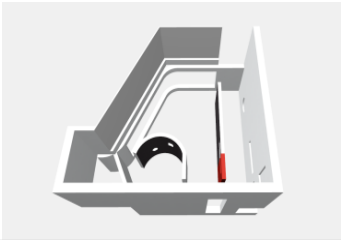
300 Type		
300-3 Type Material	■	
300-5 Type Property Set	■	
General	company statement	
WallStandardCase 01A / 2x3		
_G4 Remarks	■	

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		■	
210 Property Set			
210-1 Property Set IFC Common		■	
General	company statement		WallStandardCase 02S / 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	■		
070-2 Voiding Geometry Explicit	■		
070-3 Voiding Geometry Mapped	■		
120 Spatial Containment	■		
General	company statement		WallStandardCase 04A / 2x3
_G4 Remarks	■		

Window 01 / 2x3



301 IfcWindow	company statement		Window 01 / 2x3
001 GUIDs		■	
002 History		■	
010 Naming		■	
020 Placement			
020-2 Placement Relative		■	
030 Geometry			
030-5 Geometry Profile		■	
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	■
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 Window	■
General	company statement
_G4 Remarks	■