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Introduction




Glodon Takeoff for Architecture and Structure (TAS) is an efficient, professional, accurate and easy BIM application for quantity takeoff, built on the independent R&D platform of Glodon. With 3D models and built-in calculation methods of various countries and regions, it can calculate quickly and automatically the quantities of earthwork, masonry, concrete, formwork, scaffolds, steel structures, finishes, etc. and provide quantity surveyors with accurate calculation results.

TAS supports the import of IFC2x3 files. After the IFC files of drawings from the designers are imported into TAS, the quantities of the related projects can be calculated and obtained directly, making it convenient for quantity surveyors and cost estimators to determine bid prices.

TAS supports the export of IFC2x3 files. The files can be delivered to the downstream participants of AEC industry and used by contractors, constructors and so on directly.

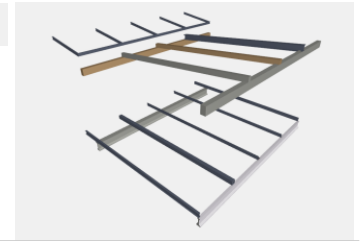
Testlist

| Name test | concepts total | manually checked | | |
|-----------------------------|----------------|---|---|---|
| | |  |  |  |
| BeamColumn 04 / 2x3 | 47 | 36 | | 11 |
| Beam_01 / 2x3 | 10 | 8 | | 2 |
| Beam_02 / 2x3 | 12 | 9 | | 3 |
| Beam_03 / 2x3 | 6 | 3 | | 3 |
| CharsetTest-01A / 2x3 | 2 | 2 | | |
| CharsetTest-01S / 2x3 | 2 | 2 | | |
| Column 01 / 2x3 | 11 | 9 | | 2 |
| Column_02 / 2x3 | 6 | 4 | | 2 |
| CoveringFurnishing-01 / 2x3 | 57 | 42 | | 15 |
| CurtainWall-01 / 2x3 | 29 | 23 | 1 | 5 |
| Door 01 / 2x3 | 22 | 14 | | 8 |
| DoorWindow-02 / 2x3 | 11 | 9 | | 2 |
| Grid 01 / 2x3 | 11 | 10 | 1 | |
| Member 01A / 2x3 | 10 | 5 | 1 | 4 |
| Pile 01 / 2x3 | 19 | 10 | | 9 |
| RampRailing-01 / 2x3 | 28 | 20 | 2 | 6 |
| RandomArch-X1 / 2x3 | 85 | 64 | | 21 |
| RandomArch-X2 / 2x3 | 187 | 121 | | 66 |
| RandomArch-X3 / 2x3 | 75 | 59 | | 16 |
| RandomArch-X4 / 2x3 | 118 | 72 | | 46 |
| RandomArch-X5 / 2x3 | 100 | 64 | | 36 |
| Roof 01 / 2x3 | 15 | 6 | | 9 |
| Roof 02 / 2x3 | 12 | 10 | | 2 |
| Site 01 / 2x3 | 14 | 12 | | 2 |
| Site 02 / 2x3 | 13 | 12 | | 1 |
| Slab 01A / 2x3 | 9 | 7 | | 2 |

| Name test | concepts total | manually checked | | |
|----------------------------|----------------|---|---|---|
| | |  |  |  |
| Slab 02A / 2x3 | 24 | 17 | | 7 |
| Space 01A / 2x3 | 12 | 10 | | 2 |
| StairSlab-01 / 2x3 | 19 | 18 | | 1 |
| UnitTest-01A / 2x3 | 3 | 3 | | |
| UnitTest-01S / 2x3 | 3 | 3 | | |
| Wall 01 / 2x3 | 19 | 13 | | 6 |
| Wall 02 / 2x3 | 14 | 10 | | 4 |
| WallSlab 03 / 2x3 | 32 | 25 | | 7 |
| WallStandardCase 01A / 2x3 | 15 | 8 | | 7 |
| WallStandardCase 02A / 2x3 | 11 | 8 | 1 | 2 |
| WallStandardCase 03A / 2x3 | 9 | 7 | | 2 |
| WallStandardCase 04A / 2x3 | 8 | 7 | | 1 |
| Window 01 / 2x3 | 22 | 17 | 1 | 4 |

Concepts

Beam_01 / 2x3

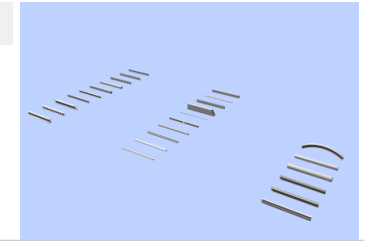


| 103 IfcBeam | company statement | | Beam_01 / 2x3 |
|-------------------------------|-------------------|---|---------------|
| 010 Naming | ■ | | |
| 020 Placement | | | |
| 020-2 Placement Relative | ■ | | |
| 030 Geometry | | | |
| 030-6 Geometry Body | | | |
| 030-6-1 Geometry SweptSolid | ■ | | |
| 030-6-2 Geometry Clipping | ■ | The Beams with Clipping Geometry in this test case are exported as BReps. | |
| 040 Presentation | | | |
| 040-1 Geometric Presentation | ■ | | |
| 040-2 Material Presentation | ■ | This concept was optional for this test case, and not supported in TAS. | |
| 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

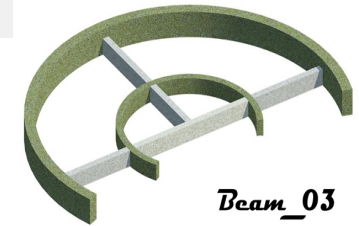


Beam_02 / 2x3



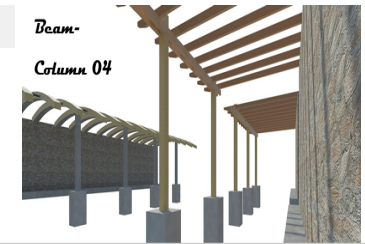
| 103 IfcBeam | company statement | | Beam_02 / 2x3 |
|-----------------------------------|-------------------|---|---------------|
| 010 Naming | ■ | | |
| 030 Geometry | | | |
| 030-2 Geometry Axis | ■ | This concept was optional for this test case, and not supported in TAS. | |
| 030-6 Geometry Body | | | |
| 030-6-1 Geometry SweptSolid | ■ | | |
| 030-6-2 Geometry Clipping | ■ | The Beams with Clipping Geometry in this test case are exported as BReps. | |
| 030-6-5 Geometry Explicit | ■ | | |
| 050 CAD Layer | ■ | | |
| 070 Voiding | | | |
| 070-1 Voiding Geometry Explicit | ■ | | |
| 070-2 Voiding Geometry Mapped | ■ | The Beams with Mapped Geometry in this test case are exported as BReps. | |
| 070-3 Voiding Geometry SweptSolid | ■ | | |
| 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 | <div><div></div></div> | This concept was optional for this test case, and not supported in TAS. | |
| 030-2 Geometry Axis | <div><div></div></div> | This concept was optional for this test case, and not supported in TAS. | |
| 030-6 Geometry Body | | | |
| 030-6-1 Geometry SweptSolid | <div><div></div></div> | | |
| 030-6-2 Geometry Clipping | <div><div></div></div> | The Beams with Clipping Geometry in this test case are exported as BReps. | |
| 300 Type | | | |
| 300-5 Type Property Set | <div><div></div></div> | | |
| General | company statement | | Beam_03 / 2x3 |
| _G4 Remarks | <div><div></div></div> | | |

BeamColumn 04 / 2x3



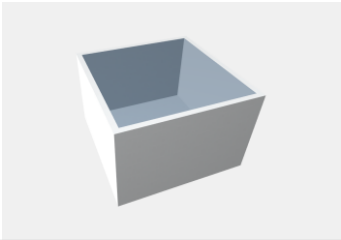
| 103 IfcBeam | company statement | | BeamColumn 04 / 2x3 |
|-----------------------------------|-------------------|---|---|
| 001 GUIDs | | ■ | |
| 002 History | | ■ | |
| 010 Naming | | ■ | |
| 020 Placement | | | |
| 020-2 Placement Relative | | ■ | |
| 030 Geometry | | | |
| 030-6 Geometry Body | | | |
| 030-6-1 Geometry SweptSolid | | ■ | |
| 030-6-9 Geometry Mapped | | ■ | The Beams with Mapped Geometry in this test case are exported as BReps. |
| | | | |
| 070 Voiding | | | |
| 070-1 Voiding Geometry Explicit | | ■ | |
| 070-2 Voiding Geometry Mapped | | ■ | This concept was optional for this test case, and not supported in TAS. |
| 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 | <div></div> | |
| 210-3 Property Set User Defined | <div></div> | |
| 300 Type | | |
| 300-1 Type Geometry | <div></div> | This concept was optional for this test case, and not supported in TAS. |
| 300-2 Type Naming | <div></div> | |
| 300-3 Type Material | <div></div> | This concept was optional for this test case, and not supported in TAS. |
| 300-5 Type Property Set | <div></div> | |
| 104 IfcColumn | company statementBeamColumn 04 / 2x3 | |
| 001 GUIDs | <div></div> | |
| 002 History | <div></div> | |
| 010 Naming | <div></div> | |
| 020 Placement | | |
| 020-2 Placement Relative | <div></div> | |
| 030 Geometry | | |
| 030-6 Geometry Body | | |
| 030-6-1 Geometry SweptSolid | <div></div> | |
| 030-6-9 Geometry Mapped | <div></div> | The columns with Mapped Geometry in this test case are exported as BReps. |
| 070 Voiding | | |
| 070-1 Voiding Geometry Explicit | <div></div> | |
| 070-2 Voiding Geometry Mapped | <div></div> | The columns with openings in this test case are exported as BReps |
| 070-3 Voiding Geometry SweptSolid | <div></div> | |
| 130 Grouping | | |
| 130-1 Grouping General | <div></div> | |

| | | |
|-----------------------------|--|---|
| 200 Material | | |
| 200-1 Single Material | <div></div> | |
| 210 Property Set | | |
| 210-2 Property Set IFC any | <div></div> | |
| 300 Type | | |
| 300-1 Type Geometry | <div></div> | This concept was optional for this test case, and not supported in TAS. |
| 300-2 Type Naming | <div></div> | |
| 300-3 Type Material | <div></div> | This concept was optional for this test case, and not supported in TAS. |
| 300-5 Type Property Set | <div></div> | |
| 403 IfcFooting | company statement <div>BeamColumn 04 / 2x3</div> | |
| 001 GUIDs | <div></div> | |
| 002 History | <div></div> | |
| 010 Naming | <div></div> | |
| 020 Placement | | |
| 020-1 Placement Relative | <div></div> | |
| 030 Geometry | | |
| 030-6 Geometry Body | | |
| 030-6-1 Geometry SweptSolid | <div></div> | |
| 030-6-9 Geometry Mapped | <div></div> | The Footing with Mapped Geometry in this test case are exported as BReps. |
| | | |
| 130 Grouping | | |
| 130-1 Grouping General | <div></div> | |
| 200 Material | | |
| 200-1 Single Material | <div></div> | |

| | | |
|----------------------------|-------------------|---|
| 210 Property Set | | |
| 210-2 Property Set IFC any | <div></div> | |
| 300 Type | | |
| 300-1 Type Geometry | <div></div> | This concept was optional for this test case, and not supported in TAS. |
| 300-2 Type Naming | <div></div> | |
| 300-3 Type Material | <div></div> | This concept was optional for this test case, and not supported in TAS. |
| 300-5 Type Property Set | <div></div> | |
| General | company statement | |
| _G4 Remarks | <div></div> | |

CharsetTest-01A / 2x3



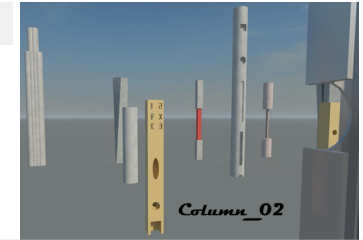
| | | | |
|--------------------|-------------------|---|-----------------------|
| General | company statement | | CharsetTest-01A / 2x3 |
| _G1 Character sets | | ■ | |
| _G4 Remarks | | ■ | |

CharsetTest-01S / 2x3



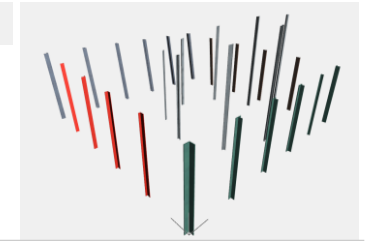
| | | | |
|--------------------|-------------------|---|-----------------------|
| General | company statement | | CharsetTest-01S / 2x3 |
| _G1 Character sets | | ■ | |
| _G4 Remarks | | ■ | |

Column_02 / 2x3



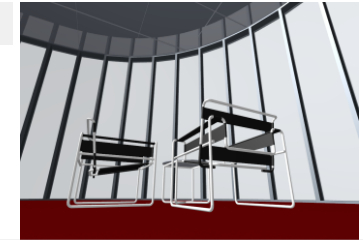
| 104 IfcColumn | company statement | | Column_02 / 2x3 |
|--|---|---|-----------------|
| 030 Geometry 030-6 Geometry Body 030-6-1 Geometry SweptSolid 030-6-5 Geometry Explicit | <div></div> <div></div> <div></div> <div></div> | | |
| 070 Voiding 070-1 Voiding Geometry Explicit 070-2 Voiding Geometry Mapped 070-3 Voiding Geometry SweptSolid | <div></div> <div></div> <div></div> | <p>The columns with openings in this test case are exported as BReps.</p> <p>The columns with openings in this test case are exported as BReps.</p> | |
| General | company statement | | Column_02 / 2x3 |
| _G4 Remarks | <div></div> | | |

Column 01 / 2x3



| 104 IfcColumn | company statement | | Column 01 / 2x3 |
|-------------------------------|-------------------|---|-----------------|
| 010 Naming | ■ | | |
| 020 Placement | | | |
| 020-2 Placement Relative | ■ | | |
| 030 Geometry | | | |
| 030-6 Geometry Body | | | |
| 030-6-1 Geometry SweptSolid | ■ | | |
| 030-6-2 Geometry Clipping | ■ | The columns with Clipping Geometry in this test case are exported as BReps. | |
| 040 Presentation | | | |
| 040-1 Geometric Presentation | ■ | | |
| 040-2 Material Presentation | ■ | This concept was optional for this test case, and not supported in TAS. | |
| 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 | ■ | In this test case, the IfcFlowTerminal were exported as BReps. | |
| 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 | ■ | | |

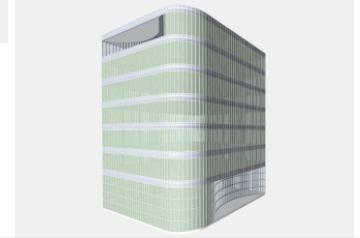
| | |
|------------------------------|--|
| 300 Type | |
| 300-1 Type Geometry | <div></div> <p>Type Geometry is not supported in TAS, since there is no space left to show the geometry shape.</p> |
| 300-2 Type Naming | <div></div> |
| 300-3 Type Material | <div></div> <p>Type Material is not supported in TAS.</p> |
| 300-5 Type Property Set | <div></div> |
| 303 IfcCovering | <div>company statement</div> <div>CoveringFurnishing-01 / 2x3</div> |
| 010 Naming | <div></div> |
| 020 Placement | |
| 020-2 Placement Relative | <div></div> |
| 030 Geometry | |
| 030-6 Geometry Body | |
| 030-6-1 Geometry SweptSolid | <div></div> <p>In this test case, the Covering were exported as BReps.</p> <p>Openings cannot be laid out on coverings in TAS, so the openings are missing in both export and import. We have fixed it, now they are exported as breps with voids.</p> |
| 030-6-9 Geometry Mapped | <div></div> <p>In this test case, the Covering were exported as BReps.</p> |
| 040 Presentation | |
| 040-1 Geometric Presentation | <div></div> |
| 050 CAD Layer | <div></div> |
| 070 Voiding | |
| 120 Spatial Containment | <div></div> |
| 200 Material | |
| 200-1 Single Material | <div></div> |
| 200-3 Material Layer Set | <div></div> |

| | |
|-------------------------------|--|
| 210 Property Set | |
| 210-1 Property Set IFC Common | ■ |
| 300 Type | |
| 300-1 Type Geometry | ■ Type Geometry is not supported in TAS, since there is no space left to show the geometry shape. |
| 300-2 Type Naming | ■ |
| 300-3 Type Material | ■ Type Material is not supported in TAS export. |
| 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 | ■ In this test case, the FurnishingElement were exported as BReps. |
| 040 Presentation | |
| 040-1 Geometric Presentation | ■ |
| 050 CAD Layer | ■ |
| 120 Spatial Containment | ■ |
| 200 Material | |
| 200-1 Single Material | ■ |
| 200-5 Material List | ■ |
















| | | |
|---------------------------------|---|---|
| 210 Property Set | | |
| 210-6 Property Set IFC any |  | |
| 210-9 Property Set User Defined |  | |
| 300 Type | | |
| 300-1 Type Geometry |  | Type Geometry is not supported in TAS, since there is no space left to show the geometry shape. |
| 300-2 Type Naming |  | |
| 300-3 Type Material |  | Type Material is not supported in TAS. |
| 300-5 Type Property Set |  | |
| 505 IfcSpace | company statement | |
| 030 Geometry | | |
| 030-3 Geometry FootPrint |  | Access to FootPrint is irrelevant to quantity takeoff. |
| 030-6 Geometry Body | | |
| 030-6-1 Geometry SweptSolid |  | In this test case, the IfcSpace were exported as BReps. |
| 120 Spatial Containment |  | |
| 130 Grouping | | |
| 130-3 Grouping to Zones |  | |
| 230 Classification |  | Access to Classification is irrelevant to quantity takeoff. |
| 508 IfcZone | company statement | |
| 001 GUIDs |  | |
| 002 History |  | |
| 010 Naming |  | |

| | |
|---------------------------------|--|
| 130 Grouping | |
| 130-5 Is Group | ■ |
| 210 Property Set | |
| 210-1 Property Set IFC Common | ■ Zone property is not supported in TAS export. |
| 210-9 Property Set User Defined | ■ Zone property is not supported in TAS export. |
| General | <i>company statement</i> CoveringFurnishing-01 / 2x3 |
| _G4 Remarks | ■ We imported CoveringFurnishing-01_ABD.ifc to generate this file. |

CurtainWall-01 / 2x3

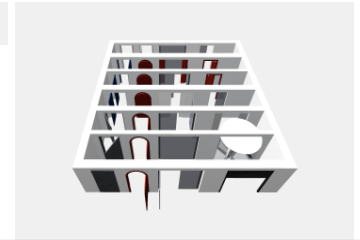


| 109 IfcCurtainWall | company statement | | CurtainWall-01 / 2x3 |
|------------------------------|-------------------|---|----------------------|
| 001 GUIDs | ■ | | |
| 002 History | ■ | | |
| 010 Naming | ■ | | |
| 020 Placement | | | |
| 020-1 Placement Relative | ■ | | |
| 030 Geometry | | | |
| 030-6 Geometry Body | | | |
| 030-6-5 Geometry Explicit | ■ | | |
| 030-9 Geometry By Components | ■ | the curtain wall is stored with complete geometry in TAS and exported this way. | |
| 040 Presentation | | | |
| 040-1 Geometric Presentation | ■ | | |
| 050 CAD Layer | ■ | | |
| 100 Element Aggregation | | | |
| 100-2 Element Decomposition | ■ | the curtain wall is stored with complete geometry in TAS and exported this way. | |
| 120 Spatial Containment | ■ | | |
| 200 Material | | | |
| 200-1 Single Material | ■ | | |
| 200-5 Material List | ■ | This concept was optional for this test case, and not supported in TAS. | |

| | | |
|---------------------------------|---|---|
| 210 Property Set | | |
| 210-1 Property Set IFC Common |  | |
| 210-3 Property Set User Defined |  | |
| 300 Type | | |
| 300-1 Type Geometry |  | This concept was optional for this test case, and not supported in TAS. |
| 300-2 Type Naming |  | |
| 300-3 Type Material |  | |
| 300-5 Type Property Set |  | |
| 501 IfcProject | | company statement CurtainWall-01 / 2x3 |
| 010 Naming |  | |
| 502 IfcSite | | company statement CurtainWall-01 / 2x3 |
| 010 Naming |  | |
| 060 Location | | |
| 060-1 Geographic Location |  | |
| 060-2 Address |  | |
| 503 IfcBuilding | | company statement CurtainWall-01 / 2x3 |
| 010 Naming |  | |
| 020 Placement | | |
| 020-2 Placement Relative |  | |
| 504 IfcBuildingStorey | | company statement CurtainWall-01 / 2x3 |
| 010 Naming |  | |
| 020 Placement | | |
| 020-2 Placement Relative |  | |
| 060 Location | | |
| 060-4 Storey Elevation |  | |

| | |
|-------------------------------|--|
| 210 Property Set | |
| 210-1 Property Set IFC Common | ■ |
| General | <i>company statement</i> CurtainWall-01 / 2x3 |
| _G4 Remarks | ■ We imported CurtainWall-01_ABD.ifc into TAS to generate this file. |

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 | ■ | Our doors and windows are represented by the BRep, it does not support. | |
| 030-6 Geometry Body | | | |
| 030-6-5 Geometry Explicit | ■ | | |
| 030-6-9 Geometry Mapped | ■ | Our doors and windows are represented by the BRep, it does not support. | |
| 040 Presentation | | | |
| 040-1 Geometric Presentation | ■ | | |
| 050 CAD Layer | ■ | | |
| 080 Filling | | | |
| 080-2 Is Filling | ■ | | |
| 120 Spatial Containment | ■ | | |

| | |
|--|--|
| 200 Material <i>200-1 Single Material</i> <i>200-5 Material List</i> | <div></div> <div>This concept is optional for this test case, and not included in the TAS export.</div> <div></div> <div>This concept is optional for this test case, and not included in the TAS export.</div> |
| 210 Property Set 210-1 Property Set IFC Common 210-2 Property Set IFC any 210-3 Property Set User Defined | <div></div> <div></div> <div>This concept is not supported in TAS export.</div> <div></div> |
| 300 Type <i>300-1 Type Geometry</i> <i>300-2 Type Naming</i> <i>300-3 Type Material</i> <i>300-5 Type Property Set</i> 300-6 Type Predefined Properties 300-6-1 Type Predefined Properties Door | <div></div> <div>Type Geometry is not supported in TAS, since there is no space left to show the geometry shape.</div> <div></div> <div></div> <div>Type Material is not supported in TAS.</div> <div></div> <div>This concept is optional for this test case, and not included in the TAS export.</div> <div></div> |
| General | <i>company statement</i> |
| <i>_G4 Remarks</i> | <div></div> |

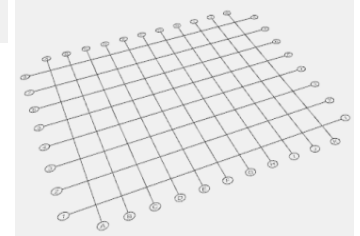
DoorWindow-02 / 2x3



| 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 | ■ | Type Geometry is not supported in TAS, since there is no space left to show the geometry shape. | |
| 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 | ■ | | |

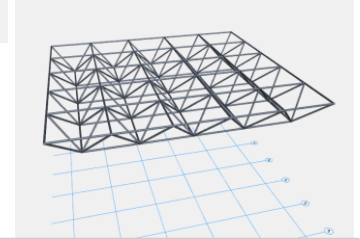
| | |
|---------------------|--|
| 080 Filling | |
| 080-2 Is Filling | <div></div> |
| 300 Type | |
| 300-1 Type Geometry | <div></div> <div>Type Geometry is not supported in TAS, since there is no space left to show the geometry shape.</div> |
| General | <div>company statement</div> <div>DoorWindow-02 / 2x3</div> |
| _G4 Remarks | <div></div> <div>We imported DoorWindow-02-ACA.ifc into TAS to generate this file.</div> |

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 | ■ | duplex rectangular grid and triangular grid are not supported in TAS. | |

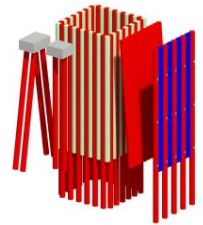
Member 01A / 2x3



| 401 IfcMember | company statement | | Member 01A / 2x3 |
|------------------------------|-------------------|--|------------------|
| 010 Naming | ■ | | |
| 020 Placement | | | |
| 020-2 Placement Relative | ■ | We export Geometry with Brep representations, so member's local placements are Floor. concept -> restricted | |
| 030 Geometry | | | |
| 030-6 Geometry Body | | | |
| 030-6-1 Geometry SweptSolid | ■ | we export it as Breps | |
| 030-6-2 Geometry Clipping | ■ | Only Breps. we export it as Breps Only Breps. | |
| 040 Presentation | | | |
| 040-1 Geometric Presentation | ■ | | |
| 040-2 Material Presentation | ■ | Material Presentation has been transported into Geometric Presentation while exporting from TAS. | |
| 120 Spatial Containment | ■ | | |
| 200 Material | | | |
| 200-1 Single Material | ■ | | |

| | |
|---------------------|--|
| 300 Type | |
| 300-1 Type Geometry | <div></div> Type Geometry is not supported in TAS. |
| General | company statementMember 01A / 2x3 |
| _G4 Remarks | <div></div> |

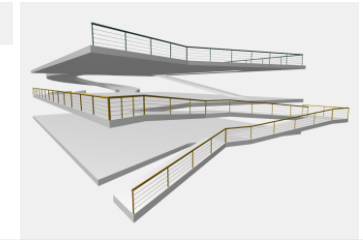
Pile 01 / 2x3



| 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 | company statement |
| _G4 Remarks | ■ |

RampRailing-01 / 2x3

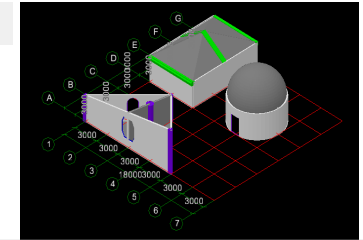


| 107 IfcRamp | company statement | | RampRailing-01 / 2x3 |
|------------------------------|-------------------|--|----------------------|
| 001 GUIDs | ■ | | |
| 002 History | ■ | | |
| 010 Naming | ■ | | |
| 020 Placement | | | |
| 020-1 Placement Relative | ■ | | |
| 030 Geometry | | | |
| 030-6 Geometry Body | | | |
| 030-6-5 Geometry Explicit | ■ | | |
| 030-9 Geometry By Components | ■ | Composition is lost, but elements can still be exported. | |
| 040 Presentation | | | |
| 040-1 Geometric Presentation | ■ | | |
| 050 CAD Layer | ■ | | |
| 100 Element Aggregation | | | |
| 100-2 Element Decomposition | ■ | Composition is lost, but elements can still be exported. | |
| 120 Spatial Containment | ■ | | |
| 200 Material | | | |
| 200-1 Single Material | ■ | This Single Material of ramp is not stored in our application. | |

| | | |
|---------------------------------|-------------------|---|
| 210 Property Set | | |
| 210-1 Property Set IFC Common | ■ | In this test case,we are not supported property sets export in TAS. |
| 210-3 Property Set User Defined | ■ | In this test case,we are not supported property sets export in TAS. |
| 108 IfcRailing | company statement | |
| 001 GUIDs | ■ | |
| 002 History | ■ | |
| 010 Naming | ■ | |
| 020 Placement | | |
| 020-2 Placement Relative | ■ | |
| 030 Geometry | | |
| 030-6 Geometry Body | | |
| 030-6-1 Geometry SweptSolid | ■ | The Railing with Geometry SweptSolid in this test case are exported as BReps. |
| 030-6-5 Geometry Explicit | ■ | |
| 030-6-9 Geometry Mapped | ■ | The Railing with Mapped Geometry in this test case are exported as BReps. |
| 040 Presentation | | |
| 040-1 Geometric Presentation | ■ | |
| 050 CAD Layer | ■ | |
| 120 Spatial Containment | ■ | |
| 200 Material | | |
| 200-1 Single Material | ■ | |
| 200-5 Material List | ■ | |
| 210 Property Set | | |
| 210-1 Property Set IFC Common | ■ | |
| 210-3 Property Set User Defined | ■ | |

| | | |
|-------------|-------------------|----------------------|
| General | company statement | RampRailing-01 / 2x3 |
| _G4 Remarks | <div></div> | |













RandomArch-X1 / 2x3



| 101 IfcWallStandardCase | company statement | | RandomArch-X1 / 2x3 |
|-----------------------------------|-------------------|--|---------------------|
| 002 History | ■ | | |
| 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 | ■ | In this test case, the Geometry Clipping were exported as BReps. This concept was not supported in TAS. | |
| 050 CAD Layer | ■ | | |
| 070 Voiding | | | |
| 070-1 Voiding Geometry SweptSolid | ■ | | |
| 070-2 Voiding Geometry Explicit | ■ | In this test case, the Geometry Clipping were exported as SweptSolid | |
| 080 Filling | | | |
| 081 Has Filling | | | |
| 081-1 Has Filling Door | ■ | | |
| 081-2 Has Filling Window | ■ | | |

| | | |
|-----------------------------------|---|--|
| 200 Material | | |
| 200-4 Material Layer Usage | ■ | |
| 210 Property Set | | |
| 210-3 Property Set User Defined | ■ | |
| 300 Type | | |
| 300-2 Type Naming | ■ | |
| 102 IfcWall | | company statement RandomArch-X1 / 2x3 |
| 002 History | ■ | |
| 010 Naming | ■ | |
| 020 Placement | | |
| 020-2 Placement Relative | ■ | |
| 030 Geometry | | |
| 030-2 Geometry Axis | ■ | This concept was not included in the TAS export. |
| 030-6 Geometry Body | | |
| 030-6-1 Geometry SweptSolid | ■ | |
| 030-6-2 Geometry Clipping | ■ | In this test case, the Geometry Clipping were exported as BReps. |
| 040 Presentation | | |
| 050 CAD Layer | ■ | |
| 070 Voiding | | |
| 070-1 Voiding Geometry Explicit | ■ | |
| 070-3 Voiding Geometry SweptSolid | ■ | |

| | |
|-------------------------------|---|
| 080 Filling | |
| 080-1 Has Filling | |
| 080-1-1 Has Filling Door | ■ |
| 080-1-2 Has Filling Window | ■ |
| 100 Element Aggregation | |
| 100-1 Element Composition | ■ This concept was not supported. |
| 100-2 Element Decomposition | ■ This concept was optional for this test case, and not included in the TAS export. |
| 200 Material | |
| 200-1 Single Material | ■ |
| 200-3 Material Layer Set | ■ This concept was not supported. |
| 210 Property Set | |
| 210-1 Property Set IFC Common | ■ |
| 300 Type | |
| 300-2 Type Naming | ■ |
| 103 IfcBeam | company statement RandomArch-X1 / 2x3 |
| 030 Geometry | |
| 030-6 Geometry Body | |
| 030-6-5 Geometry Explicit | ■ |
| 040 Presentation | |
| 040-2 Material Presentation | ■ This concept was optional for this test case, and not included in the TAS export. |
| 200 Material | |
| 200-1 Single Material | ■ |
| 210 Property Set | |
| 210-1 Property Set IFC Common | ■ |

| 104 IfcColumn | company statement | | RandomArch-X1 / 2x3 |
|-------------------------------|---|---|---------------------|
| 002 History |  | | |
| 010 Naming |  | | |
| 030 Geometry | | | |
| 030-6 Geometry Body | | | |
| 030-6-1 Geometry SweptSolid |  | | |
| 030-6-5 Geometry Explicit |  | In this test case, the Geometry Explicit were not supported by Tas. | |
| 040 Presentation | | | |
| 040-2 Material Presentation |  | This concept was optional for this test case, and not included in the TAS export. | |
| 050 CAD Layer |  | | |
| 200 Material | | | |
| 200-1 Single Material |  | | |
| 210 Property Set | | | |
| 210-1 Property Set IFC Common |  | | |
| 300 Type | | | |
| 300-2 Type Naming |  | | |
| 105 IfcSlab | company statement | | RandomArch-X1 / 2x3 |
| 002 History |  | | |
| 010 Naming |  | | |
| 030 Geometry | | | |
| 030-6 Geometry Body | | | |
| 030-6-1 Geometry SweptSolid |  | | |
| 040 Presentation | | | |
| 040-2 Material Presentation |  | Only Geometry Presentation was supported in TAS. | |

| | | |
|-----------------------------------|---|---|
| 050 CAD Layer |  | |
| 070 Voiding | | |
| 070-3 Voiding Geometry SweptSolid |  | |
| 100 Element Aggregation | | |
| 100-1 Element Composition |  | This concept was optional for this test case, and not included in the TAS export. |
| 100-2 Element Decomposition |  | This concept was optional for this test case, and not included in the TAS export. |
| 200 Material | | |
| 200-1 Single Material |  | |
| 200-2 Material Layer Set |  | This concept was not included in the TAS export. |
| 200-3 Material Layer Usage |  | |
| 210 Property Set | | |
| 210-1 Property Set IFC Common |  | |
| 110 IfcRoof | company statement RandomArch-X1 / 2x3 | |
| 040 Presentation | | |
| 100 Element Aggregation | | |
| 100-1 Element Composition |  | IfcRoof is not supported in TAS. |
| 100-2 Element Decomposition |  | IfcRoof is not supported in TAS. |
| 200 Material | | |
| 200-1 Single Material |  | IfcRoof is not supported in TAS. |
| 210 Property Set | | |
| 210-1 Property Set IFC Common |  | IfcRoof is not supported in TAS. |
| 301 IfcWindow | company statement RandomArch-X1 / 2x3 | |
| 001 GUIDs |  | |

| | | |
|----------------------------------|------------------------|---|
| 002 History | <div><div></div></div> | |
| 010 Naming | <div><div></div></div> | |
| 020 Placement | | |
| 020-2 Placement Relative | <div><div></div></div> | |
| 030 Geometry | | |
| 030-6 Geometry Body | | |
| 030-6-5 Geometry Explicit | <div><div></div></div> | |
| 040 Presentation | | |
| 040-1 Geometric Presentation | <div><div></div></div> | |
| 050 CAD Layer | <div><div></div></div> | |
| 080 Filling | | |
| 080-2 Is Filling | <div><div></div></div> | |
| 120 Spatial Containment | <div><div></div></div> | |
| 200 Material | | |
| 200-1 Single Material | <div><div></div></div> | |
| 210 Property Set | | |
| 210-1 Property Set IFC Common | <div><div></div></div> | |
| 210-2 Property Set IFC any | <div><div></div></div> | |
| 300 Type | | |
| 300-1 Type Geometry | <div><div></div></div> | This concept was optional for this test case, and not supported in TAS. |
| 300-2 Type Naming | <div><div></div></div> | |
| 300-6 Type Predefined Properties | | |
| 302 IfcDoor | company statement | |
| 002 History | <div><div></div></div> | |
| 010 Naming | <div><div></div></div> | |













| | | |
|---|---|---|
| 030 Geometry | | |
| 030-6 Geometry Body | | |
| 030-6-5 Geometry Explicit | ■ | |
| 050 CAD Layer | ■ | |
| 200 Material | | |
| 200-1 Single Material | ■ | This concept was optional for this test case, and not included in the TAS export. |
| 300 Type | | |
| 300-2 Type Naming | ■ | |
| 300-6 Type Predefined Properties | | |
| 300-6-1 Type Predefined Properties Door | ■ | |
| 503 IfcBuilding | | company statement RandomArch-X1 / 2x3 |
| 210 Property Set | | |
| 210-1 Property Set IFC Common | ■ | |
| 509 IfcGrid | | company statement RandomArch-X1 / 2x3 |
| 030 Geometry | | |
| 030-3 Geometry FootPrint | ■ | |
| 270 Grid Usage | | |
| 270-1 Grid Axes | ■ | |
| General | | company statement RandomArch-X1 / 2x3 |
| _G4 Remarks | ■ | |

RandomArch-X2 / 2x3
















| 101 IfcWallStandardCase | company statement | | RandomArch-X2 / 2x3 |
|-----------------------------|---|---|---------------------|
| 001 GUIDs |  | | |
| 002 History |  | | |
| 010 Naming |  | | |
| 030 Geometry | | | |
| 030-1 Geometry Box |  | This concept was not supported in TAS. | |
| 030-2 Geometry Axis |  | | |
| 030-6 Geometry Body | | | |
| 030-6-1 Geometry SweptSolid |  | | |
| 030-6-2 Geometry Clipping |  | This concept was not supported. | |
| 050 CAD Layer |  | | |
| 080 Filling | | | |
| 081 Has Filling | | | |
| 081-1 Has Filling Door |  | | |
| 081-2 Has Filling Window |  | | |
| 120 Spatial Containment |  | | |
| 130 Grouping | | | |
| Grouping General |  | This concept was optional for this test case, and not supported in TAS. | |

| | | |
|---------------------------------|---|---|
| 200 Material | | |
| 200-4 Material Layer Usage | ■ | |
| 210 Property Set | | |
| 210-1 Property Set IFC Common | ■ | |
| 210-2 Property Set IFC any | ■ | |
| 210-3 Property Set User Defined | ■ | |
| 230 Classification | ■ | This concept was optional for this test case, and not supported in TAS. |
| 300 Type | | |
| 300-1 Type Geometry | ■ | This concept was not supported. |
| 300-3 Type Material | ■ | |
| 300-5 Type Property Set | ■ | This concept was not supported in TAS. |
| 102 IfcWall | | company statement RandomArch-X2 / 2x3 |
| 001 GUIDs | ■ | |
| 002 History | ■ | |
| 010 Naming | ■ | |
| 030 Geometry | | |
| 030-2 Geometry Axis | ■ | |
| 030-9 Geometry By Components | ■ | In this test case, the Geometry By Components were exported as BReps. |
| 103 IfcBeam | | company statement RandomArch-X2 / 2x3 |
| 001 GUIDs | ■ | |
| 002 History | ■ | |
| 010 Naming | ■ | |
| 020 Placement | | |
| 020-2 Placement Relative | ■ | |

| | | |
|-------------------------------|---------------------------------------|---|
| 030 Geometry | | |
| 030-1 Geometry Box | ■ | This concept was optional for this test case, and not included in the TAS export. |
| 030-2 Geometry Axis | ■ | This concept was optional for this test case, and not included in the TAS export. |
| 030-6 Geometry Body | | |
| 030-6-1 Geometry SweptSolid | ■ | |
| 030-6-2 Geometry Clipping | ■ | In this test case, the Geometry Clipping were exported as BReps. |
| 030-6-5 Geometry Explicit | ■ | |
| 030-6-9 Geometry Mapped | ■ | In this test case, the Geometry Mapped were exported as BReps. |
| 040 Presentation | | |
| 040-1 Geometric Presentation | ■ | |
| 040-2 Material Presentation | ■ | This concept was optional for this test case, and not included in the TAS export. |
| 050 CAD Layer | ■ | |
| 120 Spatial Containment | ■ | |
| 200 Material | | |
| 200-1 Single Material | ■ | |
| 210 Property Set | | |
| 210-1 Property Set IFC Common | ■ | |
| 104 IfcColumn | company statement RandomArch-X2 / 2x3 | |
| 001 GUIDs | ■ | |
| 002 History | ■ | |
| 010 Naming | ■ | |
| 020 Placement | | |
| 020-2 Placement Relative | ■ | |













| | | |
|-------------------------------|---|---|
| 030 Geometry | | |
| 030-1 Geometry Box |  | This concept was not supported. |
| 030-6 Geometry Body | | |
| 030-6-1 Geometry SweptSolid |  | |
| 030-6-5 Geometry Explicit |  | |
| 040 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 |  | |
| 105 IfcSlab | | <i>company statement</i> RandomArch-X2 / 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 |  |
| 030-6-9 Geometry Mapped |  In this test case, the Geometry Mapped were exported as BReps. |
| 030-9 Geometry By Components |  In this test case, the Geometry By Components were exported as BReps. |
| 040 Presentation | |
| 040-2 Material Presentation |  This concept was optional for this test case, and not included in the TAS export. |
| 050 CAD Layer |  |
| 070 Voiding | |
| 070-1 Voiding Geometry Explicit |  This concept was not supported. |
| 070-2 Voiding Geometry Mapped |  In this test case, the Geometry Clipping were exported as BReps. |
| 070-3 Voiding Geometry SweptSolid |  We have fixed it. |
| 080 Filling | |
| 080-2 Is Filling |  This concept was optional for this test case, and not supported in TAS. |
| 120 Spatial Containment |  |
| 200 Material | |
| 200-1 Single Material |  |
| 200-2 Material Layer Set |  |
| 200-3 Material Layer Usage |  Only single material was supported. |









| | | |
|-------------------------------|---|---|
| 210 Property Set | | |
| 210-1 Property Set IFC Common |  | |
| 106 IfcStair | | <i>company statement</i> RandomArch-X2 / 2x3 |
| 001 GUIDs |  | |
| 002 History |  | |
| 010 Naming |  | |
| 020 Placement | | |
| 020-1 Placement Relative |  | |
| 030 Geometry | | |
| 030-6 Geometry Body | | |
| 030-6-5 Geometry Explicit |  | |
| 040 Presentation | | |
| 040-2 Material Presentation |  | This concept was optional for this test case, and not supported in TAS. |
| 050 CAD Layer |  | |
| 120 Spatial Containment |  | |
| 200 Material | | |
| 200-1 Single Material |  | |
| 210 Property Set | | |
| 210-1 Property Set IFC Common |  | |
| 108 IfcRailing | | <i>company statement</i> RandomArch-X2 / 2x3 |
| 001 GUIDs |  | |
| 002 History |  | |
| 010 Naming |  | |
| 020 Placement | | |
| 020-2 Placement Relative |  | |











| | |
|-------------------------------|---------------------------------------|
| 030 Geometry | |
| 030-6 Geometry Body | |
| 030-6-5 Geometry Explicit | ■ |
| 040 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 | ■ |
| 301 IfcWindow | company statement RandomArch-X2 / 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 | ■ This concept was not supported. |
| 040 Presentation | |
| 040-1 Geometric Presentation | ■ |
| 050 CAD Layer | ■ |
| 080 Filling | |
| 080-2 Is Filling | ■ |














| | | |
|-------------------------------|---|---|
| 120 Spatial Containment |  | |
| 210 Property Set | | |
| 210-1 Property Set IFC Common |  | |
| 210-2 Property Set IFC any |  | |
| 300 Type | | |
| 300-2 Type Naming |  | |
| 303 IfcCovering | | <i>company statement</i> RandomArch-X2 / 2x3 |
| 001 GUIDs |  | This concept was not supported in TAS. |
| 002 History |  | This concept was not supported in TAS. |
| 010 Naming |  | This concept was not supported in TAS. |
| 020 Placement | | |
| 020-2 Placement Relative |  | This concept was not supported in TAS. |
| 030 Geometry | | |
| 030-6 Geometry Body | | |
| 030-6-1 Geometry SweptSolid |  | This concept was not supported in TAS. |
| 040 Presentation | | |
| 040-2 Material Presentation |  | This concept was not supported in TAS. |
| 050 CAD Layer |  | This concept was not supported in TAS. |
| 120 Spatial Containment |  | This concept was not supported in TAS. |
| 200 Material | | |
| 200-1 Single Material |  | This concept was not supported in TAS. |
| 200-3 Material Layer Set |  | This concept was not supported in TAS. |

| | |
|-------------------------------|--|
| 210 Property Set | |
| 210-1 Property Set IFC Common |  This concept was not supported in TAS. |
| 401 IfcMember | <i>company statement</i> RandomArch-X2 / 2x3 |
| 001 GUIDs |  This concept was not supported in TAS. |
| 002 History |  This concept was not supported in TAS. |
| 010 Naming |  This concept was not supported in TAS. |
| 020 Placement | |
| 020-2 Placement Relative |  This concept was not supported in TAS. |
| 030 Geometry | |
| 030-6 Geometry Body | |
| 030-6-1 Geometry SweptSolid |  This concepts was not supported in TAS. |
| 030-6-5 Geometry Explicit |  This concept was not supported in TAS. |
| 040 Presentation | |
| 040-2 Material Presentation |  This concept was not supported in TAS. |
| 050 CAD Layer |  This concept was not supported in TAS. |
| 120 Spatial Containment |  This concept was not supported in TAS. |
| 200 Material | |
| 200-1 Single Material |  This concept was not supported in TAS. |
| 210 Property Set | |
| 210-1 Property Set IFC Common |  This concept was not supported in TAS. |
| 403 IfcFooting | <i>company statement</i> RandomArch-X2 / 2x3 |

| | | |
|-------------------------------|---|---|
| 001 GUIDs |  | |
| 002 History |  | |
| 010 Naming |  | |
| 020 Placement | | |
| 020-1 Placement Relative |  | |
| 030 Geometry | | |
| 030-6 Geometry Body | | |
| 030-6-1 Geometry SweptSolid |  | |
| 040 Presentation | | |
| 040-2 Material Presentation |  | This concept was optional for this test case, and not included in the TAS export. |
| 050 CAD Layer |  | |
| 120 Spatial Containment |  | |
| 200 Material | | |
| 200-1 Single Material |  | |
| 210 Property Set | | |
| 210-1 Property Set IFC Common |  | |
| 404 IfcPile | | <i>company statement</i> |
| 001 GUIDs |  | |
| 002 History |  | |
| 010 Naming |  | |
| 020 Placement | | |
| 020-1 Placement Relative |  | |
| 030 Geometry | | |
| 030-6 Geometry Body | | |
| 030-6-5 Geometry Explicit |  | |

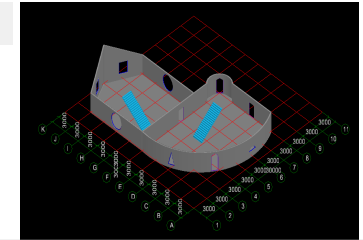
| | | |
|------------------------------|---|---|
| 040 Presentation | | |
| 040-2 Material Presentation |  | This concept was optional for this test case, and not included in the TAS export. |
| 050 CAD Layer |  | |
| 120 Spatial Containment |  | |
| 200 Material | | |
| 200-1 Single Material |  | |
| 408 IfcElementAssembly | company statement RandomArch-X2 / 2x3 | |
| 001 GUIDs |  | This concept was not supported in TAS. |
| 010 Naming |  | This concepts was not supported in TAS. |
| 020 Placement | | |
| 020-2 Placement Relative |  | This concept was not supported in TAS. |
| 030 Geometry | | |
| 030-1 Geometry Box |  | This concept was not supported in TAS. |
| 030-2 Geometry Axis |  | This concept was not supported in TAS. |
| 100 Element Aggregation | | |
| 100-1 Element Composition |  | This concept was not supported in TAS. |
| 501 IfcProject | company statement RandomArch-X2 / 2x3 | |
| 001 GUIDs |  | |
| 002 History |  | |
| 005 Project Units | | |
| 005-2 Project Imperial Units |  | |
| 010 Naming |  | |

| | | |
|---|--|--|
| 210 Property Set 210-1 Property Set IFC Common |  | This concept was optional for this test case, and not supported in TAS. |
| 502 IfcSite | company statement RandomArch-X2 / 2x3 | |
| 001 GUIDs |  | This concept was not supported in TAS. |
| 002 History |  | This concept was not supported in TAS. |
| 010 Naming |  | This concept was not supported in TAS. |
| 020 Placement 020-1 Placement Absolute |  | This concept was not supported in TAS. |
| 150 Spatial Aggregation 150-1 Spatial Composition 150-2 Spatial Decomposition |   | This concept was not supported in TAS. This concept was not supported in TAS. |
| 503 IfcBuilding | company statement RandomArch-X2 / 2x3 | |
| 001 GUIDs |  | |
| 002 History |  | |
| 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 |  | This concept was not supported. |
| 504 IfcBuildingStorey | company statement RandomArch-X2 / 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 | <i>company statement</i> RandomArch-X2 / 2x3 | |
| 010 Naming |  | This concept was not supported in TAS. |
| 020 Placement | | |
| 020-2 Placement Relative |  | This concept was not supported in TAS. |
| 030 Geometry | | |
| 030-6 Geometry Body | | |
| 030-6-2 Geometry Clipping |  | This concept was not supported in TAS. |
| 509 IfcGrid | <i>company statement</i> RandomArch-X2 / 2x3 | |
| 001 GUIDs |  | |
| 002 History |  | |
| 010 Naming |  | |
| 020 Placement | | |
| 020-2 Placement Relative |  | |
| 030 Geometry | | |
| 030-3 Geometry FootPrint |  | This concept was not supported. |
| 050 CAD Layer |  | |












| | |
|-----------------|---|
| 270 Grid Usage | |
| 270-1 Grid Axes | <div></div> |
| General | <div>company statement</div> <div>RandomArch-X2 / 2x3</div> |
| _G4 Remarks | <div></div> |






RandomArch-X3 / 2x3



| 101 IfcWallStandardCase | company statement | | RandomArch-X3 / 2x3 |
|-----------------------------------|-------------------|---|---|
| 001 GUIDs | | ■ | |
| 002 History | | ■ | |
| 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 | | ■ | In this test case, the Geometry Clipping were exported as BReps. This concept was not supported. |
| 050 CAD Layer | | ■ | |
| 070 Voiding | | | |
| 070-1 Voiding Geometry SweptSolid | | ■ | |
| 200 Material | | | |
| 200-4 Material Layer Usage | | ■ | |
| 300 Type | | | |
| 300-2 Type Naming | | ■ | |
| 102 IfcWall | company statement | | RandomArch-X3 / 2x3 |

| | | |
|-----------------------------------|---|--|
| 001 GUIDs |  | |
| 002 History |  | |
| 010 Naming |  | |
| 020 Placement | | |
| 020-2 Placement Relative |  | |
| 030 Geometry | | |
| 030-2 Geometry Axis |  | Geometry Axis was not supported. |
| 030-6 Geometry Body | | |
| 030-6-1 Geometry SweptSolid |  | |
| 050 CAD Layer |  | |
| 070 Voiding | | |
| 070-1 Voiding Geometry Explicit |  | |
| 070-3 Voiding Geometry SweptSolid |  | This concept was not supported in TAS. |
| 200 Material | | |
| 200-1 Single Material |  | |
| 300 Type | | |
| 300-2 Type Naming |  | |
| 105 IfcSlab | | company statement RandomArch-X3 / 2x3 |
| 001 GUIDs |  | |
| 002 History |  | |
| 010 Naming |  | |
| 020 Placement | | |
| 020-2 Placement Relative |  | |
| 050 CAD Layer |  | |

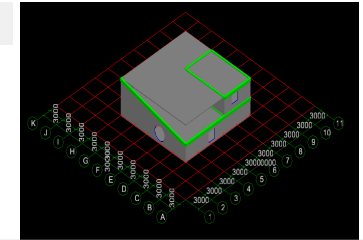
| | | |
|-------------------------------|---|--|
| 200 Material | | |
| 200-3 Material Layer Usage |  | Material Layer Usage was not supported. |
| 106 IfcStair | company statement RandomArch-X3 / 2x3 | |
| 020 Placement | | |
| 020-1 Placement Relative |  | |
| 030 Geometry | | |
| 030-2 Geometry Axis |  | Geometry Axis was not supported. |
| 030-6 Geometry Body | | |
| 030-6-5 Geometry Explicit |  | |
| 120 Spatial Containment |  | |
| 200 Material | | |
| 200-1 Single Material |  | |
| 210 Property Set | | |
| 210-1 Property Set IFC Common |  | Common property set of stair flight was supported. |
| 107 IfcRamp | company statement RandomArch-X3 / 2x3 | |
| 020 Placement | | |
| 020-1 Placement Relative |  | This concept was not supported in TAS. |
| 030 Geometry | | |
| 030-2 Geometry Axis |  | This concept was not supported in TAS. |
| 030-6 Geometry Body | | |
| 030-6-5 Geometry Explicit |  | This concept was not supported in TAS. |
| 120 Spatial Containment |  | This concept was not supported in TAS. |

| | | |
|-------------------------------|---|--|
| 200 Material | | |
| 200-1 Single Material |  | This concept was not supported in TAS. |
| 210 Property Set | | |
| 210-1 Property Set IFC Common |  | This concept was not supported in TAS. |
| 110 IfcRoof | | <i>company statement</i> RandomArch-X3 / 2x3 |
| 010 Naming |  | This concept was not supported in TAS. |
| 020 Placement | | |
| 020-2 Placement Relative |  | This concept was not supported in TAS. |
| 111 IfcBuildingElementProxy | | <i>company statement</i> RandomArch-X3 / 2x3 |
| 010 Naming |  | This concept was not supported in TAS. |
| 301 IfcWindow | | <i>company statement</i> RandomArch-X3 / 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 |  | In this test case, the Geometry Mapped were exported as BReps. |
| 040 Presentation | | |
| 040-1 Geometric Presentation |  | |
| 050 CAD Layer |  | |














| | |
|---|--|
| 080 Filling | |
| 080-2 Is Filling | ■ |
| 120 Spatial Containment | ■ |
| 200 Material | |
| 200-1 Single Material | ■ |
| 210 Property Set | |
| 210-1 Property Set IFC Common | ■ |
| 210-2 Property Set IFC any | ■ |
| 300 Type | |
| 300-6 Type Predefined Properties | |
| 300-6-1 Type Predefined Properties Window | ■ Type Predefined Properties was not supported. |
| 302 IfcDoor | company statement RandomArch-X3 / 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 | ■ In this test case, the Geometry Mapped were exported as BReps. |
| 040 Presentation | |
| 040-1 Geometric Presentation | ■ |
| 050 CAD Layer | ■ |
















| | | |
|---|---|--|
| 080 Filling | | |
| 080-2 Is Filling | ■ | |
| 120 Spatial Containment | ■ | |
| 200 Material | | |
| 200-1 Single Material | ■ | |
| 210 Property Set | | |
| 210-1 Property Set IFC Common | ■ | |
| 210-2 Property Set IFC any | ■ | |
| 300 Type | | |
| 300-2 Type Naming | ■ | |
| 300-6 Type Predefined Properties | | |
| 300-6-1 Type Predefined Properties Door | ■ | |
| 501 IfcProject | | company statement RandomArch-X3 / 2x3 |
| 005 Project Units | | |
| 005-1 Project Metric Units | ■ | |
| 503 IfcBuilding | | company statement RandomArch-X3 / 2x3 |
| 010 Naming | ■ | |
| General | | company statement RandomArch-X3 / 2x3 |
| _G4 Remarks | ■ | Ramp cannot be drawn in TAS, and roof is exported as slab. |



RandomArch-X4 / 2x3


















| 101 IfcWallStandardCase | company statement | | RandomArch-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 | | ■ | |
| 050 CAD Layer | | ■ | |
| 070 Voiding | | | |
| 070-1 Voiding Geometry SweptSolid | | ■ | In this test case, the Voiding Geometry SweptSolid were exported as BReps. |
| 080 Filling | | | |
| 081 Has Filling | | | |
| 081-1 Has Filling Door | | ■ | |
| 081-2 Has Filling Window | | ■ | |
| 120 Spatial Containment | | ■ | |
| 210 Property Set | | | |
| 210-1 Property Set IFC Common | | ■ | |
| 102 IfcWall | company statement | | RandomArch-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 |  | This concept was not supported. |
| 030-6-5 Geometry Explicit |  | |
| 040 Presentation | | |
| 040-2 Material Presentation |  | This concept was not supported. |
| 050 CAD Layer |  | |
| 120 Spatial Containment |  | |
| 200 Material | | |
| 200-1 Single Material |  | |
| 103 IfcBeam | company statement RandomArch-X4 / 2x3 | |
| 001 GUIDs |  | |
| 010 Naming |  | |
| 020 Placement | | |
| 020-2 Placement Relative |  | |
| 030 Geometry | | |
| 030-6 Geometry Body | | |
| 030-6-1 Geometry SweptSolid |  | |
| 030-6-9 Geometry Mapped |  | This concept was not supported. |













| | | |
|-------------------------------|---|--|
| 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 | | <i>company statement</i> RandomArch-X4 / 2x3 |
| 001 GUIDs |  | |
| 010 Naming |  | |
| 020 Placement | | |
| 020-2 Placement Relative |  | |
| 030 Geometry | | |
| 030-6 Geometry Body | | |
| 030-6-1 Geometry SweptSolid |  | |
| 030-6-2 Geometry Clipping |  | In this test case, the Geometry Clipping were exported as BReps. |
| 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 |  | |

| | |
|-----------------------------------|---|
| 300 Type | |
| 300-2 Type Naming |  |
| 105 IfcSlab | company statement RandomArch-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 |  |
| 040 Presentation | |
| 040-2 Material Presentation |  This concept was optional for this test case, and not supported in TAS. |
| 050 CAD Layer |  |
| 070 Voiding | |
| 070-1 Voiding Geometry Explicit |  This concept was not supported. |
| 070-3 Voiding Geometry SweptSolid |  This concept was not supported. |
| 080 Filling | |
| 080-1 Has Filling | |
| 080-1-2 Has Filling Window |  This concept was not supported. |
| 120 Spatial Containment |  |

| | | |
|-----------------------------|---|--|
| 200 Material | | |
| 200-1 Single Material |  | |
| 200-2 Material Layer Set |  | This concept was not supported. |
| 109 IfcCurtainWall | company statement RandomArch-X4 / 2x3 | |
| 001 GUIDs |  | This concept was not supported. |
| 002 History |  | This concept was not supported. |
| 010 Naming |  | This concept was not supported. |
| 020 Placement | | |
| 020-1 Placement Relative |  | This concept was not supported. |
| 030 Geometry | | |
| 030-6 Geometry Body | | |
| 030-6-9 Geometry Mapped |  | In this test case, the Geometry Mapped were exported as BReps. |
| 100 Element Aggregation | | |
| 100-1 Element Composition |  | This concept was not supported. |
| 100-2 Element Decomposition |  | This concept was not supported. |
| 200 Material | | |
| 200-1 Single Material |  | This concept was not supported. |
| 111 IfcBuildingElementProxy | company statement RandomArch-X4 / 2x3 | |
| 001 GUIDs |  | This concept was not supported. |
| 002 History |  | This concept was not supported. |
| 010 Naming |  | This concept was not supported. |

| | | |
|---------------------------------|---|--|
| 020 Placement | | |
| 020-2 Placement Relative |  | This concept was not supported. |
| 030 Geometry | | |
| 030-6 Geometry Body | | |
| 030-6-5 Geometry Explicit |  | This concept was not supported. |
| 040 Presentation | | |
| 040-2 Material Presentation |  | This concept was not supported. |
| 050 CAD Layer |  | This concept was not supported. |
| 120 Spatial Containment |  | This concept was not supported. |
| 200 Material | | |
| 200-1 Single Material |  | This concept was not supported. |
| 210 Property Set | | |
| 210-3 Property Set User Defined |  | This concept was not supported. |
| 301 IfcWindow | | <i>company statement</i> RandomArch-X4 / 2x3 |
| 001 GUIDs |  | |
| 002 History |  | |
| 010 Naming |  | |
| 030 Geometry | | |
| 030-6 Geometry Body | | |
| 030-6-9 Geometry Mapped |  | In this test case, the Geometry Mapped were exported as BReps. |
| 050 CAD Layer |  | |

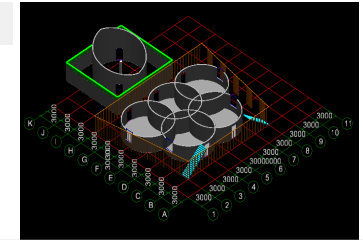
| | | |
|-----------------------------|---|---|
| 300 Type | | |
| 300-2 Type Naming |  | |
| 302 IfcDoor | company statement | RandomArch-X4 / 2x3 |
| 001 GUIDs |  | |
| 002 History |  | |
| 010 Naming |  | |
| 030 Geometry | | |
| 030-6 Geometry Body | | |
| 030-6-9 Geometry Mapped |  | |
| 050 CAD Layer |  | |
| 080 Filling | | |
| 080-2 Is Filling |  | |
| 300 Type | | |
| 300-2 Type Naming |  | |
| 403 IfcFooting | company statement | RandomArch-X4 / 2x3 |
| 001 GUIDs |  | |
| 002 History |  | |
| 010 Naming |  | |
| 020 Placement | | |
| 020-1 Placement Relative |  | |
| 030 Geometry | | |
| 030-2 Geometry Axis |  | This concept was optional for this test case, and not supported in TAS. |
| 030-6 Geometry Body | | |
| 030-6-1 Geometry SweptSolid |  | |
| 030-6-5 Geometry Explicit |  | |

| | | |
|-----------------------------|---|---|
| 040 Presentation | | |
| 040-2 Material Presentation |  | This concept was optional for this test case, and not supported in TAS. |
| 050 CAD Layer |  | |
| 120 Spatial Containment |  | |
| 200 Material | | |
| 200-1 Single Material |  | |
| 501 IfcProject | | <i>company statement</i> RandomArch-X4 / 2x3 |
| 001 GUIDs |  | |
| 002 History |  | |
| 005 Project Units | | |
| 005-1 Project Metric Units |  | We have fixed it. |
| 010 Naming |  | |
| 150 Spatial Aggregation | | |
| 150-1 Spatial Composition |  | |
| 150-2 Spatial Decomposition |  | This concept was optional for this test case, and not supported in TAS. |
| 502 IfcSite | | <i>company statement</i> RandomArch-X4 / 2x3 |
| 001 GUIDs |  | This concept was not supported. |
| 002 History |  | This concept was not supported. |
| 010 Naming |  | This concept was not supported. |
| 020 Placement | | |
| 020-1 Placement Absolute |  | This concept was not supported. |

| | |
|---------------------------------|---|
| 030 Geometry | |
| 030-1 Geometry Box |  This concept was not supported. |
| 030-6 Geometry Body | |
| 030-6-5 Geometry Explicit |  This concept was not supported. |
| 040 Presentation | |
| 040-1 Geometric Presentation |  This concept was not supported. |
| 050 CAD Layer |  This concept was not supported. |
| 060 Location | |
| 060-1 Geographic Location |  This concept was not supported. |
| 120 Spatial Containment |  This concept was not supported. |
| 150 Spatial Aggregation | |
| 150-1 Spatial Composition |  This concept was not supported. |
| 150-2 Spatial Decomposition |  This concept was not supported. |
| 210 Property Set | |
| 210-9 Property Set User Defined |  This concept was not supported. |
| General | <i>company statement</i> |
| _G4 Remarks |  |

















RandomArch-X4 / 2x3




RandomArch-X5 / 2x3




























| 101 IfcWallStandardCase | company statement | | RandomArch-X5 / 2x3 |
|-----------------------------|-------------------|---------------------------------|---------------------|
| 010 Naming | ■ | | |
| 030 Geometry | | | |
| 030-6 Geometry Body | | | |
| 030-6-2 Geometry Clipping | ■ | This concept was not supported. | |
| 050 CAD Layer | ■ | | |
| 080 Filling | | | |
| 081 Has Filling | | | |
| 081-2 Has Filling Window | ■ | | |
| 120 Spatial Containment | ■ | | |
| 102 IfcWall | company statement | | RandomArch-X5 / 2x3 |
| 001 GUIDs | ■ | | |
| 002 History | ■ | | |
| 010 Naming | ■ | | |
| 020 Placement | | | |
| 020-2 Placement Relative | ■ | | |
| 100 Element Aggregation | | | |
| 100-2 Element Decomposition | ■ | This concept was not supported. | |
| 120 Spatial Containment | ■ | | |
| 103 IfcBeam | company statement | | RandomArch-X5 / 2x3 |




| | | |
|-------------------------------|---|---|
| 010 Naming |  | |
| 020 Placement | | |
| 020-2 Placement Relative |  | |
| 030 Geometry | | |
| 030-6 Geometry Body | | |
| 030-6-5 Geometry Explicit |  | This concept was not supported in TAS export. |
| 050 CAD Layer |  | |
| 120 Spatial Containment |  | |
| 200 Material | | |
| 200-1 Single Material |  | |
| 210 Property Set | | |
| 210-1 Property Set IFC Common |  | |
| 105 IfcSlab | company statement RandomArch-X5 / 2x3 | |
| 030 Geometry | | |
| 030-9 Geometry By Components |  | This concept was not supported. |
| 050 CAD Layer |  | |
| 100 Element Aggregation | | |
| 100-1 Element Composition |  | This concept was not supported. |
| 100-2 Element Decomposition |  | This concept was not supported. |
| 200 Material | | |
| 200-1 Single Material |  | |
| 106 IfcStair | company statement RandomArch-X5 / 2x3 | |
| 001 GUIDs |  | |
| 002 History |  | |

| | | |
|------------------------------|---|--|
| 010 Naming |  | |
| 020 Placement | | |
| 020-1 Placement Relative |  | |
| 030 Geometry | | |
| 030-9 Geometry By Components |  | This concept was not supported. |
| 040 Presentation | | |
| 040-1 Geometric Presentation |  | |
| 040-2 Material Presentation |  | This concept was not supported. |
| 120 Spatial Containment |  | |
| 108 IfcRailing | | <i>company statement</i> RandomArch-X5 / 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 |  | This concept was not supported in TAS export. |
| 030-6-9 Geometry Mapped |  | In this test case, the Geometry Mapped were exported as BReps. |
| 040 Presentation | | |
| 040-1 Geometric Presentation |  | |
| 050 CAD Layer |  | |
| 120 Spatial Containment |  | |

| | | |
|---------------------------------|---|---------------------------------|
| 200 Material | | |
| 200-1 Single Material |  | |
| 200-5 Material List |  | This concept was not supported. |
| 210 Property Set | | |
| 210-1 Property Set IFC Common |  | |
| 210-3 Property Set User Defined |  | |
| 109 IfcCurtainWall | company statement RandomArch-X5 / 2x3 | |
| 001 GUIDs |  | This concept was not supported. |
| 002 History |  | This concept was not supported. |
| 010 Naming |  | This concept was not supported. |
| 020 Placement | | |
| 020-1 Placement Relative |  | This concept was not supported. |
| 100 Element Aggregation | | |
| 100-2 Element Decomposition |  | This concept was not supported. |
| 120 Spatial Containment |  | This concept was not supported. |
| 110 IfcRoof | company statement RandomArch-X5 / 2x3 | |
| 010 Naming |  | This concept was not supported. |
| 100 Element Aggregation | | |
| 100-2 Element Decomposition |  | This concept was not supported. |
| 120 Spatial Containment |  | This concept was not supported. |

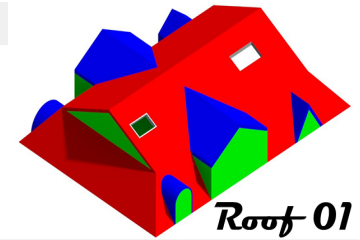
| | | |
|---|---|--|
| 210 Property Set | | |
| 210-1 Property Set IFC Common |  | This concept was not supported. |
| 111 IfcBuildingElementProxy | | <i>company statement</i> RandomArch-X5 / 2x3 |
| 001 GUIDs |  | |
| 002 History |  | |
| 010 Naming |  | |
| 020 Placement | | |
| 020-2 Placement Relative |  | |
| 030 Geometry | | |
| 030-6 Geometry Body | | |
| 030-6-5 Geometry Explicit |  | |
| 120 Spatial Containment |  | |
| 302 IfcDoor | | <i>company statement</i> RandomArch-X5 / 2x3 |
| 010 Naming |  | |
| 030 Geometry | | |
| 030-3 Geometry FootPrint |  | This concept was not supported. |
| 030-6 Geometry Body | | |
| 030-6-9 Geometry Mapped |  | This concept was not supported in TAS. |
| 050 CAD Layer |  | |
| 300 Type | | |
| 300-2 Type Naming |  | |
| 300-6 Type Predefined Properties | | |
| 300-6-1 Type Predefined Properties Door |  | |
| 401 IfcMember | | <i>company statement</i> RandomArch-X5 / 2x3 |

| | | |
|---------------------------|---|---------------------------------|
| 001 GUIDs |  | This concept was not supported. |
| 002 History |  | This concept was not supported. |
| 020 Placement | | |
| 020-2 Placement Relative |  | This concept was not supported. |
| 030 Geometry | | |
| 030-6 Geometry Body | | |
| 030-6-5 Geometry Explicit |  | This concept was not supported. |
| 120 Spatial Containment |  | This concept was not supported. |
| 402 IfcPlate | company statement RandomArch-X5 / 2x3 | |
| 001 GUIDs |  | This concept was not supported. |
| 002 History |  | This concept was not supported. |
| 020 Placement | | |
| 020-2 Placement Relative |  | This concept was not supported. |
| 030 Geometry | | |
| 030-6 Geometry Body | | |
| 030-6-5 Geometry Explicit |  | This concept was not supported. |
| 120 Spatial Containment |  | This concept was not supported. |
| 501 IfcProject | company statement RandomArch-X5 / 2x3 | |
| 001 GUIDs |  | |
| 002 History |  | |
| 010 Naming |  | |
| 502 IfcSite | company statement RandomArch-X5 / 2x3 | |








| | | |
|-----------------------------|---|---------------------------------|
| 001 GUIDs |  | This concept was not supported. |
| 002 History |  | This concept was not supported. |
| 503 IfcBuilding | company statement RandomArch-X5 / 2x3 | |
| 001 GUIDs |  | |
| 002 History |  | |
| 010 Naming |  | |
| 020 Placement | | |
| 020-2 Placement Relative |  | |
| 504 IfcBuildingStorey | company statement RandomArch-X5 / 2x3 | |
| 001 GUIDs |  | |
| 002 History |  | |
| 010 Naming |  | |
| 020 Placement | | |
| 020-2 Placement Relative |  | |
| 150 Spatial Aggregation | | |
| 150-1 Spatial Composition |  | |
| 150-2 Spatial Decomposition |  | |
| 509 IfcGrid | company statement RandomArch-X5 / 2x3 | |
| 001 GUIDs |  | |
| 002 History |  | |
| 010 Naming |  | |
| 020 Placement | | |
| 020-2 Placement Relative |  | |

| | |
|--------------------------|---|
| 030 Geometry | |
| 030-3 Geometry FootPrint | ■ |
| 050 CAD Layer | ■ |
| 270 Grid Usage | |
| 270-1 Grid Axes | ■ |
| General | <i>company statement</i> <i>RandomArch-X5 / 2x3</i> |
| _G4 Remarks | ■ Member, CurtainWall, Roof, Site and plate cannot be drawn in TAS. |

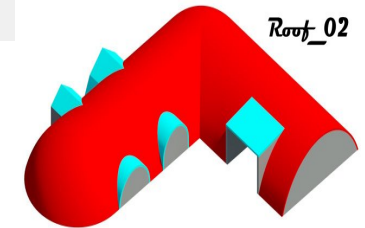
Roof 01 / 2x3



| 101 IfcWallStandardCase | company statement | Roof 01 / 2x3 |
|--|--|---------------|
| 030 Geometry 030-6 Geometry Body 030-6-1 Geometry SweptSolid 030-6-2 Geometry Clipping | <div> <div>■</div> <div>SweptSolid are converted to breps.</div> </div> <div> <div>■</div> <div>Clippings are converted to breps.</div> </div> | |
| 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 | <div> <div>■</div> <div>SweptSolid are converted to breps.</div> </div> <div> <div>■</div> <div>Clippings are converted to breps.</div> </div> <div> <div>■</div> <div>Mapped are converted to breps.</div> </div> | |
| 070 Voiding 070-3 Voiding Geometry SweptSolid | <div> <div>■</div> </div> | |
| 080 Filling 080-1 Has Filling 080-1-2 Has Filling Window | <div> <div>■</div> </div> | |
| 200 Material 200-2 Material Layer Set | <div> <div>■</div> <div>Only Single material is supported here.</div> </div> | |
| 110 IfcRoof | company statement | Roof 01 / 2x3 |

| | | |
|------------------------------|---|---|
| 030 Geometry | | |
| 030-1 Geometry Box |  | Geometry Box of Roof is not supported by TAS. |
| 040 Presentation | | |
| 040-1 Geometric Presentation |  | |
| 040-2 Material Presentation |  | This concept was optional for this test case, and not included in the TAS export. |
| 100 Element Aggregation | | |
| 100-2 Element Decomposition |  | IfcRoof is separated and exported as several slabs. |
| 120 Spatial Containment |  | |
| 200 Material | | |
| 200-1 Single Material |  | |
| General | | <i>company statement</i> Roof 01 / 2x3 |
| _G4 Remarks |  | |

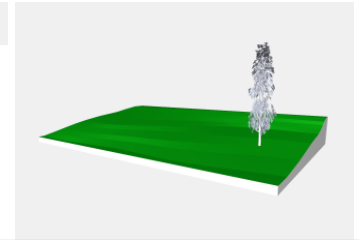
Roof 02 / 2x3



| | | | |
|---------------------------------|---|--------------------------|---------------|
| 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 |  | |

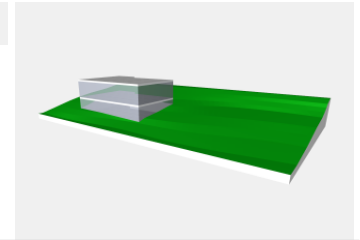
Site 01 / 2x3



| 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 | | ■ | This is optional. IfcBoundingBox is not applicable here. Each entity in TAS has its own box property. |
| 030-3 Geometry FootPrint | | ■ | Access to FootPrint is irrelevant to quantity takeoff. |
| 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 |
| _G4 Remarks | ■ | |

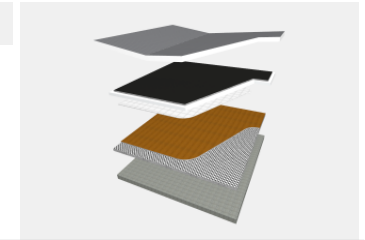
Site 02 / 2x3



| 502 IfcSite | company statement | | Site 02 / 2x3 |
|---------------------------------|-------------------|---|--|
| 010 Naming | | ■ | |
| 020 Placement | | | |
| 020-1 Placement Absolute | | ■ | |
| 030 Geometry | | | |
| 030-3 Geometry FootPrint | | ■ | Access to footprint is irrelevant to quantity takeoff. |
| 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 | | ■ | |

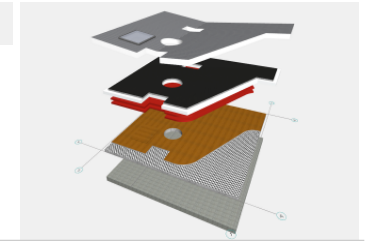
| | | |
|-------------------------------|-------------------|---------------|
| 210 Property Set | | |
| 210-1 Property Set IFC Common | <div></div> | |
| General | company statement | Site 02 / 2x3 |
| _G4 Remarks | <div></div> | |

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 | ■ | Slabs can be exported in brep format. | |
| 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 | ■ | | |

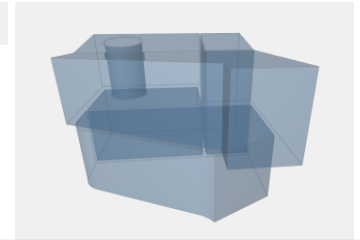
Slab 02A / 2x3



| 105 IfcSlab | company statement | | Slab 02A / 2x3 |
|-----------------------------------|-------------------|--|----------------|
| 010 Naming | ■ | | |
| 020 Placement | | | |
| 020-2 Placement Relative | ■ | | |
| 030 Geometry | | | |
| 030-1 Geometry Box | ■ | This concept was optional for this test case, and not supported in TAS. | |
| 030-6 Geometry Body | | | |
| 030-6-1 Geometry SweptSolid | ■ | | |
| 030-6-2 Geometry Clipping | ■ | The Slab with Clipping Geometry in this test case are exported as BReps. | |
| 030-6-5 Geometry Explicit | ■ | | |
| 030-6-9 Geometry Mapped | ■ | The Slab with Mapped Geometry in this test case are exported as BReps. | |
| 070 Voiding | | | |
| 070-1 Voiding Geometry Explicit | ■ | | |
| 070-2 Voiding Geometry Mapped | ■ | The Slabs with openings in this test case are exported as BReps. | |
| 070-3 Voiding Geometry SweptSolid | ■ | | |
| 080 Filling | | | |
| 080-1 Has Filling | | | |
| 080-1-1 Has Filling Door | ■ | Door can't lay out on slab in TAS. | |
| 080-1-2 Has Filling Window | ■ | | |

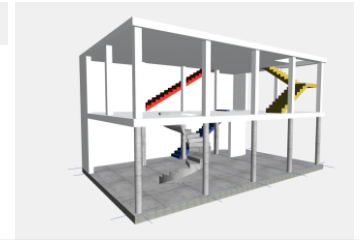
| | | |
|---------------------------------|-------------------|---|
| 120 Spatial Containment | <div></div> | |
| 130 Grouping | | |
| 130-1 Grouping General | <div></div> | |
| 200 Material | | |
| 200-1 Single Material | <div></div> | |
| 200-2 Material Layer Set | <div></div> | |
| 210 Property Set | | |
| 210-1 Property Set IFC Common | <div></div> | |
| 210-2 Property Set IFC any | <div></div> | |
| 210-3 Property Set User Defined | <div></div> | |
| 300 Type | | |
| 300-1 Type Geometry | <div></div> | This concept was optional for this test case, and not supported in TAS. |
| 300-2 Type Naming | <div></div> | |
| 300-3 Type Material | <div></div> | This concept was optional for this test case, and not supported in TAS. |
| 300-5 Type Property Set | <div></div> | |
| General | company statement | |
| _G4 Remarks | <div></div> | |

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 | ■ | In this test case, the spaces are exported as BReps. | |
| 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 | ■ | | |

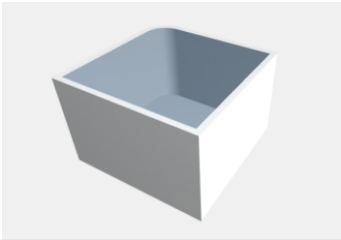
StairSlab-01 / 2x3



| 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 | ■ | This concept was optional for this test case, and not supported in TAS. | |
| 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 | ■ | | |

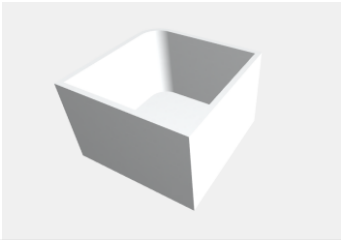
| | |
|-------------------------------|--|
| 030 Geometry | |
| 030-6 Geometry Body | |
| 030-6-5 Geometry Explicit | ■ |
| 030-9 Geometry By Components | ■ |
| 040 Presentation | |
| 040-1 Geometric Presentation | ■ |
| 050 CAD Layer | ■ |
| 100 Element Aggregation | |
| 100-2 Element Decomposition | ■ |
| 120 Spatial Containment | ■ |
| 200 Material | |
| 200-1 Single Material | ■ |
| 210 Property Set | |
| 210-1 Property Set IFC Common | ■ |
| General | <i>company statement</i> StairSlab-01 / 2x3 |
| _G4 Remarks | ■ We imported StairSlab-01_RAC.ifc into TAS and then export this file. |

UnitTest-01A / 2x3



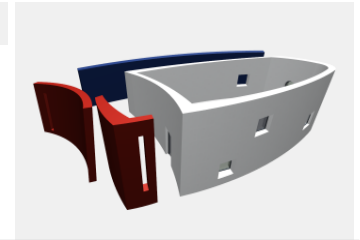
| | | | |
|------------------------------|-------------------|--|--------------------|
| 501 IfcProject | company statement | | UnitTest-01A / 2x3 |
| 005 Project Units | | | |
| 005-1 Project Metric Units | ■ | | |
| 005-2 Project Imperial Units | ■ | | |
| General | company statement | | UnitTest-01A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

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 | ■ | | |

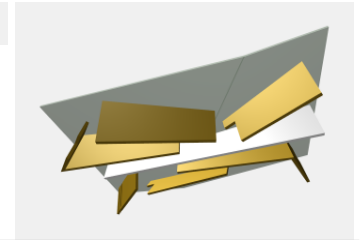
Wall 01 / 2x3



| 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 | ■ | In this test case, the Geometry SweptSolid were exported as BReps. | |
| 030-6-2 Geometry Clipping | ■ | In this test case, the Geometry Clipping were exported as BReps. | |
| 030-6-5 Geometry Explicit | ■ | | |
| 040 Presentation | | | |
| 040-1 Geometric Presentation | ■ | | |
| 040-2 Material Presentation | ■ | Only geometry representation is supported here. | |
| 070 Voiding | | | |
| 070-1 Voiding Geometry Explicit | ■ | | |
| 070-3 Voiding Geometry SweptSolid | ■ | In this test case, the Geometry SweptSolid were exported as BReps. | |

| | | |
|-------------------------------|---|--|
| 080 Filling | | |
| 080-1 Has Filling | | |
| 080-1-1 Has Filling Door | ■ | |
| 080-1-2 Has Filling Window | ■ | |
| 200 Material | | |
| 200-1 Single Material | ■ | |
| 210 Property Set | | |
| 210-1 Property Set IFC Common | ■ | |
| 300 Type | | |
| 300-3 Type Material | ■ | Only single material is supported here. |
| 300-5 Type Property Set | ■ | Type Property Set is not supported here. |
| 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 | ■ | |

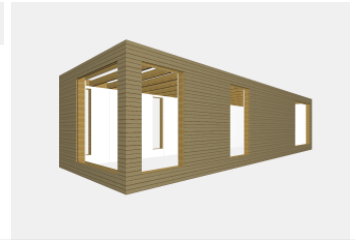
Wall 02 / 2x3



| 102 IfcWall | company statement | | Wall 02 / 2x3 |
|-----------------------------------|-------------------|---|---------------|
| 010 Naming | ■ | | |
| 020 Placement | | | |
| 020-2 Placement Relative | ■ | | |
| 030 Geometry | | | |
| 030-2 Geometry Axis | ■ | This concept was optional for this test case, and are not supported in TAS. | |
| 030-6 Geometry Body | | | |
| 030-6-1 Geometry SweptSolid | ■ | This case does not have SweptSolid. | |
| 030-6-2 Geometry Clipping | ■ | In this test case, the Geometry Clipping were exported as BReps. | |
| 030-6-5 Geometry Explicit | ■ | | |
| 050 CAD Layer | ■ | | |
| 070 Voiding | | | |
| 070-1 Voiding Geometry Explicit | ■ | | |
| 070-3 Voiding Geometry SweptSolid | ■ | This case does not have an opening with SweptSolid geometry | |
| 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 |
| _G4 Remarks | ■ | |

WallSlab 03 / 2x3

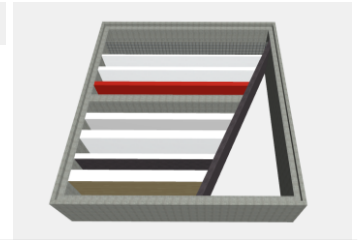


| 102 IfcWall | company statement | WallSlab 03 / 2x3 |
|--|--|-------------------|
| 010 Naming | ■ | |
| 020 Placement 020-2 Placement Relative | ■ | |
| 030 Geometry 030-9 Geometry By Components | ■ This concept was optional for this test case, object is stored with complete geometry in TAS and exported this way. | |
| 070 Voiding 070-3 Voiding Geometry SweptSolid | ■ We exported it as Breps. | |
| 100 Element Aggregation 100-2 Element Decomposition | ■ This concept was optional for this test case, object is stored with complete geometry in TAS and exported this way. | |
| 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 |  | This concept was optional for this test case, object is stored with complete geometry in TAS and exported this way. |
| 100 Element Aggregation 100-2 Element Decomposition |  | This concept was optional for this test case, object is stored with complete geometry in TAS and exported this way. |
| 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 |  | Building is relative to site and site is 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 | ■ | |
| 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> WallSlab 03 / 2x3 |
| 010 Naming | ■ | |
| 030 Geometry | | |
| 030-6 Geometry Body | | |
| 030-6-1 Geometry SweptSolid | ■ | We exported it as Breps. |
| General | | <i>company statement</i> WallSlab 03 / 2x3 |
| _G4 Remarks | ■ | |

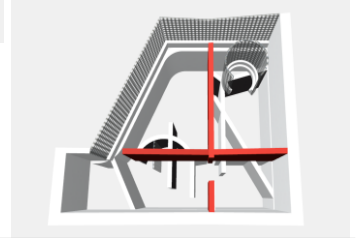
WallStandardCase 01A / 2x3



| 101 IfcWallStandardCase | company statement | | WallStandardCase 01A / 2x3 |
|------------------------------|-------------------|--|----------------------------|
| 010 Naming | ■ | | |
| 020 Placement | | | |
| 020-2 Placement Relative | ■ | | |
| 030 Geometry | | | |
| 030-2 Geometry Axis | ■ | All walls in IfcWallStandardCase of this test case are exported as IFCWall. Geometry Axis is not supported. | |
| 030-6 Geometry Body | | | |
| 030-6-1 Geometry SweptSolid | ■ | | |
| 030-6-2 Geometry Clipping | ■ | In this test case, the Geometry Clipping were exported as BReps | |
| 040 Presentation | | | |
| 040-1 Geometric Presentation | ■ | | |
| 040-2 Material Presentation | ■ | Material Presentation is not supported in the TAS export. | |
| 050 CAD Layer | ■ | | |
| 110 Connectivity | | | |
| 110-2 Connectivity Path | ■ | The application is mainly used to calculate project quantities and it is not necessary to show connectivity path, so the storage of connectivity path is not supported here. | |
| 120 Spatial Containment | ■ | | |

| | |
|---------------------------------|--|
| 200 Material | |
| 200-4 Material Layer Usage | <div></div> <div>All walls in IfcWallStandardCase of this test case are exported as IFCWall, so the Material Layer Usage is not support.</div> |
| 210 Property Set | |
| 210-3 Property Set User Defined | <div></div> |
| 300 Type | |
| 300-3 Type Material | <div></div> <div>Type Material is not support.</div> |
| 300-5 Type Property Set | <div></div> <div>This concept was optional for this test case, and not included in TAS.</div> |
| General | <div>company statement</div> <div>WallStandardCase 01A / 2x3</div> |
| _G4 Remarks | <div></div> |

WallStandardCase 02A / 2x3

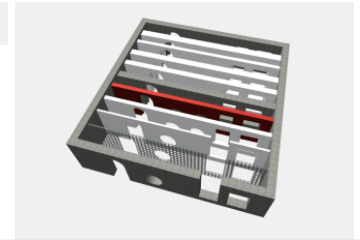


| 101 IfcWallStandardCase | company statement | | WallStandardCase 02A / 2x3 |
|-------------------------------|-------------------|---|----------------------------|
| 010 Naming | ■ | | |
| 020 Placement | | | |
| 020-2 Placement Relative | ■ | | |
| 030 Geometry | | | |
| 030-2 Geometry Axis | ■ | | |
| 030-6 Geometry Body | | | |
| 030-6-1 Geometry SweptSolid | ■ | | |
| 030-6-2 Geometry Clipping | ■ | In this test case, the Geometry Clipping were exported as BReps. | |
| 050 CAD Layer | ■ | | |
| 110 Connectivity | | | |
| 110-2 Connectivity Path | ■ | Access to connectivity path is irrelevant to quantity takeoff. | |
| 120 Spatial Containment | ■ | | |
| 200 Material | | | |
| 200-4 Material Layer Usage | ■ | Some walls in IfcWallStandardCase are exported as IfcWall in this test. In export, TAS supports the Material Layer Usage of IfcWallStandardCase, but not that of IfcWall. | |
| 210 Property Set | | | |
| 210-1 Property Set IFC Common | ■ | | |
| General | company statement | | WallStandardCase 02A / 2x3 |

_G4 Remarks

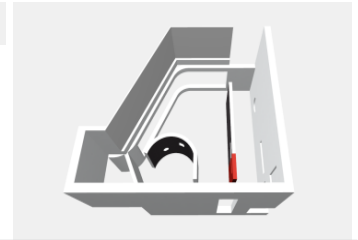


WallStandardCase 03A / 2x3



| 101 IfcWallStandardCase | company statement | | WallStandardCase 03A / 2x3 |
|-----------------------------------|-------------------|--|----------------------------|
| 010 Naming | ■ | | |
| 020 Placement | | | |
| 020-2 Placement Relative | ■ | | |
| 030 Geometry | | | |
| 030-2 Geometry Axis | ■ | | |
| 030-6 Geometry Body | | | |
| 030-6-1 Geometry SweptSolid | ■ | | |
| 070 Voiding | | | |
| 070-1 Voiding Geometry SweptSolid | ■ | | |
| 070-2 Voiding Geometry Explicit | ■ | This test case does not have Geometry Explicit | |
| 070-3 Voiding Geometry Mapped | ■ | In this test case, the Geometry Mapped were exported as BReps. | |
| 120 Spatial Containment | ■ | | |
| General | company statement | | WallStandardCase 03A / 2x3 |
| _G4 Remarks | ■ | | |

WallStandardCase 04A / 2x3



| 101 IfcWallStandardCase | company statement | | WallStandardCase 04A / 2x3 |
|-----------------------------------|-------------------|--|----------------------------|
| 010 Naming | ■ | | |
| 030 Geometry | | | |
| 030-2 Geometry Axis | ■ | | |
| 030-6 Geometry Body | | | |
| 030-6-1 Geometry SweptSolid | ■ | | |
| 070 Voiding | | | |
| 070-1 Voiding Geometry SweptSolid | ■ | | |
| 070-2 Voiding Geometry Explicit | ■ | | |
| 070-3 Voiding Geometry Mapped | ■ | In this test case, the Geometry Mapped were exported as BReps. | |
| 120 Spatial Containment | ■ | | |
| General | company statement | | WallStandardCase 04A / 2x3 |
| _G4 Remarks | ■ | | |

Window 01 / 2x3



| 301 IfcWindow | company statement | | Window 01 / 2x3 |
|------------------------------|-------------------|--|-----------------|
| 001 GUIDs | ■ | | |
| 002 History | ■ | | |
| 010 Naming | ■ | | |
| 020 Placement | | | |
| 020-2 Placement Relative | ■ | | |
| 030 Geometry | | | |
| 030-5 Geometry Profile | ■ | Our doors and windows are represented by the Brep, it does not support | |
| 030-6 Geometry Body | | | |
| 030-6-5 Geometry Explicit | ■ | | |
| 030-6-9 Geometry Mapped | ■ | Our doors and windows are represented by the Brep, it does not support | |
| 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 | ■ | Type Geometry is not supported in TAS |
| 300-2 Type Naming | ■ | |
| 300-3 Type Material | ■ | Type Material is not supported in TAS |
| 300-5 Type Property Set | ■ | |
| 300-6 Type Predefined Properties | | |
| 300-6-1 Type Predefined Properties Window | ■ | |
| General | company statement | |
| _G4 Remarks | ■ | |

Window 01 / 2x3