Introduction

TRICAD-MS is the leading CAD software solution for building services engineering, plant design, digital factory, and Traffic design.
<table>
<thead>
<tr>
<th>Name test</th>
<th>concepts total</th>
<th>manually checked</th>
</tr>
</thead>
<tbody>
<tr>
<td>[CharsetTest-01MEP / 2x3]</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>DuplexHouse_Electrical / 2x3</td>
<td>65</td>
<td>30 1 34</td>
</tr>
<tr>
<td>DuplexHouse_Heating / 2x3</td>
<td>56</td>
<td>43 1 12</td>
</tr>
<tr>
<td>DuplexHouse_Sanitary / 2x3</td>
<td>52</td>
<td>39 3 10</td>
</tr>
<tr>
<td>DuplexHouse_Ventilation / 2x3</td>
<td>44</td>
<td>38 3 6</td>
</tr>
<tr>
<td>RandomMEP-X1 / 2x3</td>
<td>46</td>
<td>45 1</td>
</tr>
<tr>
<td>RandomMEP-X2 / 2x3</td>
<td>62</td>
<td>49 1 13</td>
</tr>
<tr>
<td>RandomMEP-X3 / 2x3</td>
<td>56</td>
<td>54 2</td>
</tr>
<tr>
<td>RandomMEP-X4 / 2x3</td>
<td>42</td>
<td>41 1</td>
</tr>
<tr>
<td>RandomMEP-X5 / 2x3</td>
<td>17</td>
<td>17</td>
</tr>
<tr>
<td>Space_01MEP / 2x3</td>
<td>15</td>
<td>14 1</td>
</tr>
<tr>
<td>UnitTest-01MEP / 2x3</td>
<td>3</td>
<td>1 1 1</td>
</tr>
</tbody>
</table>
# Concepts

## CharSetTest-01MEP / 2x3

<table>
<thead>
<tr>
<th>General</th>
<th>company statement</th>
<th>CharSetTest-01MEP / 2x3</th>
</tr>
</thead>
<tbody>
<tr>
<td>_G1 Character sets</td>
<td>Supported</td>
<td></td>
</tr>
<tr>
<td>_G4 Remarks</td>
<td>Supported</td>
<td></td>
</tr>
</tbody>
</table>
## DuplexHouse_Electrical / 2x3

### 204 IfcEnergyConversionDevice

<table>
<thead>
<tr>
<th></th>
<th>company statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>010 Naming</td>
<td>![Supported]</td>
</tr>
<tr>
<td>020 Placement</td>
<td>![Supported]</td>
</tr>
<tr>
<td>020-2 Placement Relative</td>
<td>![Supported]</td>
</tr>
<tr>
<td>030 Geometry</td>
<td>![Supported]</td>
</tr>
<tr>
<td>030-6 Geometry Body</td>
<td>![Supported]</td>
</tr>
<tr>
<td>030-6-5 Geometry Explicit</td>
<td>![Supported]</td>
</tr>
<tr>
<td>030-6-9 Geometry Mapped</td>
<td>![Restricted] Mapped items are only used for reducers</td>
</tr>
<tr>
<td>100 Element Aggregation</td>
<td>![Restricted] Not all elements have connection ports</td>
</tr>
<tr>
<td>100-4 Port Assignment</td>
<td>![Restricted] Not all elements have connection ports</td>
</tr>
<tr>
<td>110 Connectivity</td>
<td>![Supported]</td>
</tr>
<tr>
<td>110-5 Connectivity by Ports</td>
<td>![Restricted] Not all elements have connection ports</td>
</tr>
<tr>
<td>120 Spatial Containment</td>
<td>![Supported]</td>
</tr>
<tr>
<td>130 Grouping</td>
<td>![Supported]</td>
</tr>
<tr>
<td>130-2 Grouping to Systems</td>
<td>![Restricted] Not supported</td>
</tr>
<tr>
<td>300 Type</td>
<td>![Restricted] Not supported</td>
</tr>
<tr>
<td>300-1 Type Geometry</td>
<td>![Restricted] Not supported</td>
</tr>
<tr>
<td>300-2 Type Naming</td>
<td>![Restricted] Not supported</td>
</tr>
</tbody>
</table>

### 205 IfcFlowController

<table>
<thead>
<tr>
<th></th>
<th>company statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>010 Naming</td>
<td>![Supported]</td>
</tr>
<tr>
<td>020 Placement</td>
<td>020-2 Placement Relative</td>
</tr>
<tr>
<td>----------------------------</td>
<td>--------------------------</td>
</tr>
<tr>
<td>030 Geometry</td>
<td>030-6 Geometry Body</td>
</tr>
<tr>
<td></td>
<td>030-6-5 Geometry Explicit</td>
</tr>
<tr>
<td></td>
<td>030-6-9 Geometry Mapped</td>
</tr>
<tr>
<td>100 Element Aggregation</td>
<td>100-4 Port Assignment</td>
</tr>
<tr>
<td>110 Connectivity</td>
<td>110-5 Connectivity by Ports</td>
</tr>
<tr>
<td>120 Spatial Containment</td>
<td>130 Grouping</td>
</tr>
<tr>
<td></td>
<td>130-2 Grouping to Systems</td>
</tr>
<tr>
<td>300 Type</td>
<td>300-1 Type Geometry</td>
</tr>
<tr>
<td></td>
<td>300-2 Type Naming</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Support</th>
<th>206 IfcFlowFitting</th>
<th>Company statement</th>
<th>DuplexHouse_Electrical / 2x3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Supported</td>
<td>010 Naming</td>
<td>No IfcFlowController in the provided mode</td>
<td>DuplexHouse_Electrical / 2x3</td>
</tr>
<tr>
<td></td>
<td>020 Placement</td>
<td>No IfcFlowController in the provided mode</td>
<td>DuplexHouse_Electrical / 2x3</td>
</tr>
<tr>
<td></td>
<td>020-2 Placement Relative</td>
<td>No IfcFlowController in the provided mode</td>
<td>DuplexHouse_Electrical / 2x3</td>
</tr>
<tr>
<td></td>
<td>030 Geometry</td>
<td>No IfcFlowController in the provided mode</td>
<td>DuplexHouse_Electrical / 2x3</td>
</tr>
<tr>
<td></td>
<td>030-6 Geometry Body</td>
<td>No IfcFlowController in the provided mode</td>
<td>DuplexHouse_Electrical / 2x3</td>
</tr>
<tr>
<td></td>
<td>030-6-5 Geometry Explicit</td>
<td>No IfcFlowController in the provided mode</td>
<td>DuplexHouse_Electrical / 2x3</td>
</tr>
<tr>
<td></td>
<td>030-6-9 Geometry Mapped</td>
<td>No IfcFlowController in the provided mode</td>
<td>DuplexHouse_Electrical / 2x3</td>
</tr>
<tr>
<td>100 Element Aggregation</td>
<td>![Supported] No IfcFlowController in the provided modele</td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------------------------------</td>
<td>--------------------------------------------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>100-4 Port Assignment</td>
<td>![Not Supported] Not all elements have connection ports</td>
<td></td>
<td></td>
</tr>
<tr>
<td>110 Connectivity</td>
<td>![Not Supported] Not all elements have connection ports</td>
<td></td>
<td></td>
</tr>
<tr>
<td>110-5 Connectivity by Ports</td>
<td>![Not Supported] Not all elements have connection ports</td>
<td></td>
<td></td>
</tr>
<tr>
<td>120 Spatial Containment</td>
<td>![Not Supported] Not all elements have connection ports</td>
<td></td>
<td></td>
</tr>
<tr>
<td>130 Grouping</td>
<td>![Not Supported] Not all elements have connection ports</td>
<td></td>
<td></td>
</tr>
<tr>
<td>130-2 Grouping to Systems</td>
<td>![Not Supported] Not all elements have connection ports</td>
<td></td>
<td></td>
</tr>
<tr>
<td>300 Type</td>
<td>![Not Supported] Not all elements have connection ports</td>
<td></td>
<td></td>
</tr>
<tr>
<td>300-1 Type Geometry</td>
<td>![Not Supported] Not all elements have connection ports</td>
<td></td>
<td></td>
</tr>
<tr>
<td>300-2 Type Naming</td>
<td>![Not Supported] Not all elements have connection ports</td>
<td></td>
<td></td>
</tr>
<tr>
<td>208 IfcFlowSegment</td>
<td>![Supported] DuplexHouse_Electrical / 2x3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>010 Naming</td>
<td>![Supported] company statement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>020 Placement</td>
<td>![Supported]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>020-2 Placement Relative</td>
<td>![Supported]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>030 Geometry</td>
<td>![Supported]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>030-6 Geometry Body</td>
<td>![Supported]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>030-6-5 Geometry Explicit</td>
<td>![Supported]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>030-6-9 Geometry Mapped</td>
<td>![Supported] Mapped items are only used for reducers</td>
<td></td>
<td></td>
</tr>
<tr>
<td>040 Presentation</td>
<td>![Supported]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>040-1 Geometric Presentation</td>
<td>![Supported]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>100 Element Aggregation</td>
<td>![Supported]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>100-4 Port Assignment</td>
<td>![Supported]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>110 Connectivity</td>
<td>![Supported]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>110-5 Connectivity by Ports</td>
<td>![Supported]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>120 Spatial Containment</td>
<td>![Supported]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>130 Grouping</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td></td>
<td></td>
</tr>
<tr>
<td>130-2 Grouping to Systems</td>
<td>Not in the provided model</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| 300 Type |  
| --- | --- |
| 300-1 Type Geometry | Not supported |
| 300-2 Type Naming | Not supported |

<table>
<thead>
<tr>
<th>210 IfcFlowTerminal</th>
<th>company statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>010 Naming</td>
<td></td>
</tr>
<tr>
<td>020 Placement</td>
<td></td>
</tr>
<tr>
<td>020-2 Placement Relative</td>
<td></td>
</tr>
<tr>
<td>030 Geometry</td>
<td></td>
</tr>
<tr>
<td>030-6 Geometry Body</td>
<td></td>
</tr>
<tr>
<td>030-6-5 Geometry Explicit</td>
<td></td>
</tr>
<tr>
<td>030-6-9 Geometry Mapped</td>
<td>Mapped items are only used for reducers</td>
</tr>
<tr>
<td>040 Presentation</td>
<td></td>
</tr>
<tr>
<td>040-1 Geometric Presentation</td>
<td></td>
</tr>
<tr>
<td>050 CAD Layer</td>
<td></td>
</tr>
<tr>
<td>100 Element Aggregation</td>
<td></td>
</tr>
<tr>
<td>100-4 Port Assignment</td>
<td>Not all elements have connection ports</td>
</tr>
<tr>
<td>110 Connectivity</td>
<td></td>
</tr>
<tr>
<td>110-5 Connectivity by Ports</td>
<td>Not all elements have connection ports</td>
</tr>
<tr>
<td>120 Spatial Containment</td>
<td></td>
</tr>
<tr>
<td>130 Grouping</td>
<td></td>
</tr>
<tr>
<td>130-2 Grouping to Systems</td>
<td>Some elements are grouped other not</td>
</tr>
<tr>
<td>Property Set</td>
<td>Description</td>
</tr>
<tr>
<td>----------------------</td>
<td>------------------------------------</td>
</tr>
<tr>
<td>210 Property Set</td>
<td></td>
</tr>
<tr>
<td>210-1 Property Set</td>
<td>IFC Common</td>
</tr>
<tr>
<td>210-6 Property Set</td>
<td>IFC any</td>
</tr>
<tr>
<td>210-9 Property Set</td>
<td>User Defined</td>
</tr>
<tr>
<td>300 Type</td>
<td></td>
</tr>
<tr>
<td>300-1 Type Geometry</td>
<td></td>
</tr>
<tr>
<td>300-2 Type Naming</td>
<td></td>
</tr>
<tr>
<td>501 IfcProject</td>
<td>company statement</td>
</tr>
<tr>
<td>010 Naming</td>
<td></td>
</tr>
<tr>
<td>503 IfcBuilding</td>
<td>company statement</td>
</tr>
<tr>
<td>010 Naming</td>
<td></td>
</tr>
<tr>
<td>504 IfcBuildingStorey</td>
<td>company statement</td>
</tr>
<tr>
<td>010 Naming</td>
<td></td>
</tr>
<tr>
<td>020 Placement</td>
<td></td>
</tr>
<tr>
<td>020-2 Placement Relative</td>
<td></td>
</tr>
<tr>
<td>150 Spatial Aggregation</td>
<td></td>
</tr>
<tr>
<td>150-1 Spatial Composition</td>
<td></td>
</tr>
<tr>
<td>507 IfcSystem</td>
<td>company statement</td>
</tr>
<tr>
<td>010 Naming</td>
<td></td>
</tr>
<tr>
<td>130 Grouping</td>
<td></td>
</tr>
<tr>
<td>130-2 Grouping to Systems</td>
<td></td>
</tr>
<tr>
<td>130-5 Is Group</td>
<td></td>
</tr>
<tr>
<td>General</td>
<td></td>
</tr>
<tr>
<td>_G4 Remarks</td>
<td></td>
</tr>
<tr>
<td>IFC Type</td>
<td>Documentation</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>------------------------</td>
</tr>
<tr>
<td><strong>IfcEnergyConversionDevice</strong></td>
<td><strong>company statement</strong></td>
</tr>
<tr>
<td>010 Naming</td>
<td>Supported</td>
</tr>
<tr>
<td>030 Geometry</td>
<td></td>
</tr>
<tr>
<td>030-6 Geometry Body</td>
<td></td>
</tr>
<tr>
<td>030-6-5 Geometry Explicit</td>
<td>Supported</td>
</tr>
<tr>
<td>030-6-9 Geometry Mapped</td>
<td>Restricted</td>
</tr>
<tr>
<td>040 Presentation</td>
<td></td>
</tr>
<tr>
<td>040-1 Geometric Presentation</td>
<td>Supported</td>
</tr>
<tr>
<td>100 Element Aggregation</td>
<td></td>
</tr>
<tr>
<td>100-4 Port Assignment</td>
<td>Supported</td>
</tr>
<tr>
<td>110 Connectivity</td>
<td></td>
</tr>
<tr>
<td>110-5 Connectivity by Ports</td>
<td>Supported</td>
</tr>
<tr>
<td>130 Grouping</td>
<td></td>
</tr>
<tr>
<td>130-2 Grouping to Systems</td>
<td>Supported</td>
</tr>
<tr>
<td>300 Type</td>
<td></td>
</tr>
<tr>
<td>300-1 Type Geometry</td>
<td>Not supported</td>
</tr>
<tr>
<td>300-5 Type Property Set</td>
<td>Supported</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>IFC Type</th>
<th>Documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>IfcFlowController</strong></td>
<td><strong>company statement</strong></td>
</tr>
<tr>
<td>010 Naming</td>
<td>Supported</td>
</tr>
<tr>
<td>Section</td>
<td>Subsection</td>
</tr>
<tr>
<td>------------------</td>
<td>------------</td>
</tr>
<tr>
<td>030 Geometry</td>
<td></td>
</tr>
<tr>
<td>030-6 Geometry Body</td>
<td></td>
</tr>
<tr>
<td>030-6-5 Geometry Explicit</td>
<td></td>
</tr>
<tr>
<td>030-6-9 Geometry Mapped</td>
<td></td>
</tr>
<tr>
<td>040 Presentation</td>
<td></td>
</tr>
<tr>
<td>040-1 Geometric Presentation</td>
<td></td>
</tr>
<tr>
<td>100 Element Aggregation</td>
<td></td>
</tr>
<tr>
<td>100-4 Port Assignment</td>
<td></td>
</tr>
<tr>
<td>110 Connectivity</td>
<td></td>
</tr>
<tr>
<td>110-5 Connectivity by Ports</td>
<td></td>
</tr>
<tr>
<td>130 Grouping</td>
<td></td>
</tr>
<tr>
<td>130-2 Grouping to Systems</td>
<td></td>
</tr>
<tr>
<td>300 Type</td>
<td></td>
</tr>
<tr>
<td>300-1 Type Geometry</td>
<td></td>
</tr>
<tr>
<td>300-5 Type Property Set</td>
<td></td>
</tr>
<tr>
<td>206 IfcFlowFitting</td>
<td></td>
</tr>
<tr>
<td>010 Naming</td>
<td></td>
</tr>
<tr>
<td>030 Geometry</td>
<td></td>
</tr>
<tr>
<td>030-6 Geometry Body</td>
<td></td>
</tr>
<tr>
<td>030-6-5 Geometry Explicit</td>
<td></td>
</tr>
<tr>
<td>030-6-9 Geometry Mapped</td>
<td></td>
</tr>
<tr>
<td>040 Presentation</td>
<td></td>
</tr>
<tr>
<td>040-1 Geometric Presentation</td>
<td></td>
</tr>
<tr>
<td>100 Element Aggregation</td>
<td></td>
</tr>
<tr>
<td>100-4 Port Assignment</td>
<td></td>
</tr>
<tr>
<td>Category</td>
<td>Subcategory</td>
</tr>
<tr>
<td>--------------------------------</td>
<td>------------------------------------</td>
</tr>
<tr>
<td>110 Connectivity</td>
<td>110-5 Connectivity by Ports</td>
</tr>
<tr>
<td>130 Grouping</td>
<td>130-2 Grouping to Systems</td>
</tr>
<tr>
<td>300 Type</td>
<td>300-1 Type Geometry</td>
</tr>
<tr>
<td></td>
<td>300-5 Type Property Set</td>
</tr>
<tr>
<td>207 IfcFlowMovingDevice</td>
<td>company statement</td>
</tr>
<tr>
<td>010 Naming</td>
<td></td>
</tr>
<tr>
<td>030 Geometry</td>
<td>030-6 Geometry Body</td>
</tr>
<tr>
<td></td>
<td>030-6-5 Geometry Explicit</td>
</tr>
<tr>
<td></td>
<td>030-6-9 Geometry Mapped</td>
</tr>
<tr>
<td></td>
<td>Mapped items are only used for reducers</td>
</tr>
<tr>
<td>040 Presentation</td>
<td>040-1 Geometric Presentation</td>
</tr>
<tr>
<td>100 Element Aggregation</td>
<td>100-4 Port Assignment</td>
</tr>
<tr>
<td>110 Connectivity</td>
<td>110-5 Connectivity by Ports</td>
</tr>
<tr>
<td>130 Grouping</td>
<td>130-2 Grouping to Systems</td>
</tr>
<tr>
<td>300 Type</td>
<td>300-1 Type Geometry</td>
</tr>
<tr>
<td></td>
<td>300-5 Type Property Set</td>
</tr>
<tr>
<td>208 IfcFlowSegment</td>
<td>company statement</td>
</tr>
</tbody>
</table>

**Supported**, **Restricted**, **Not Supported**
<table>
<thead>
<tr>
<th>Section</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>010 Naming</td>
<td></td>
</tr>
<tr>
<td>030 Geometry</td>
<td></td>
</tr>
<tr>
<td>030-6 Geometry Body</td>
<td></td>
</tr>
<tr>
<td>030-6-1 Geometry SweptSolid</td>
<td></td>
</tr>
<tr>
<td>030-6-5 Geometry Explicit</td>
<td></td>
</tr>
<tr>
<td>030-6-9 Geometry Mapped</td>
<td>Mapped items are only used for reducers</td>
</tr>
<tr>
<td>040 Presentation</td>
<td></td>
</tr>
<tr>
<td>040-1 Geometric Presentation</td>
<td></td>
</tr>
<tr>
<td>100 Element Aggregation</td>
<td></td>
</tr>
<tr>
<td>100-4 Port Assignment</td>
<td></td>
</tr>
<tr>
<td>110 Connectivity</td>
<td></td>
</tr>
<tr>
<td>110-5 Connectivity by Ports</td>
<td></td>
</tr>
<tr>
<td>130 Grouping</td>
<td></td>
</tr>
<tr>
<td>130-2 Grouping to Systems</td>
<td></td>
</tr>
<tr>
<td>300 Type</td>
<td></td>
</tr>
<tr>
<td>300-1 Type Geometry</td>
<td>Not supported</td>
</tr>
<tr>
<td>300-5 Type Property Set</td>
<td></td>
</tr>
<tr>
<td>210 IfcFlowTerminal</td>
<td>[DuplexHouse_Heating / 2x3]</td>
</tr>
<tr>
<td>010 Naming</td>
<td></td>
</tr>
<tr>
<td>030 Geometry</td>
<td></td>
</tr>
<tr>
<td>030-6 Geometry Body</td>
<td></td>
</tr>
<tr>
<td>030-6-5 Geometry Explicit</td>
<td></td>
</tr>
<tr>
<td>030-6-9 Geometry Mapped</td>
<td>Mapped items are only used for reducers</td>
</tr>
<tr>
<td>040 Presentation</td>
<td></td>
</tr>
<tr>
<td>040-1 Geometric Presentation</td>
<td></td>
</tr>
<tr>
<td>Feature</td>
<td>Status</td>
</tr>
<tr>
<td>-------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>100 Element Aggregation</td>
<td></td>
</tr>
<tr>
<td>100-4 Port Assignment</td>
<td>![green]</td>
</tr>
<tr>
<td>110 Connectivity</td>
<td></td>
</tr>
<tr>
<td>110-5 Connectivity by Ports</td>
<td>![green]</td>
</tr>
<tr>
<td>130 Grouping</td>
<td></td>
</tr>
<tr>
<td>130-2 Grouping to Systems</td>
<td>![green]</td>
</tr>
<tr>
<td>300 Type</td>
<td></td>
</tr>
<tr>
<td>300-1 Type Geometry</td>
<td>![red]  Not supported</td>
</tr>
<tr>
<td>300-5 Type Property Set</td>
<td>![green]</td>
</tr>
<tr>
<td>General</td>
<td>company statement</td>
</tr>
<tr>
<td>_G4 Remarks</td>
<td>![green]</td>
</tr>
</tbody>
</table>
### DuplexHouse_Sanitary / 2x3

<table>
<thead>
<tr>
<th>205 IfcFlowController</th>
<th>company statement</th>
<th>DuplexHouse_Sanitary / 2x3</th>
</tr>
</thead>
<tbody>
<tr>
<td>010 Naming</td>
<td><img src="http://example.com/supported.png" alt="Supported" /></td>
<td></td>
</tr>
<tr>
<td>020 Placement</td>
<td><img src="http://example.com/supported.png" alt="Supported" /></td>
<td></td>
</tr>
<tr>
<td>020-2 Placement Relative</td>
<td><img src="http://example.com/supported.png" alt="Supported" /></td>
<td></td>
</tr>
<tr>
<td>030 Geometry</td>
<td><img src="http://example.com/supported.png" alt="Supported" /></td>
<td></td>
</tr>
<tr>
<td>030-6 Geometry Body</td>
<td><img src="http://example.com/supported.png" alt="Supported" /></td>
<td></td>
</tr>
<tr>
<td>030-6-1 Geometry SweptSolid</td>
<td><img src="http://example.com/supported.png" alt="Supported" /></td>
<td></td>
</tr>
<tr>
<td>030-6-5 Geometry Explicit</td>
<td><img src="http://example.com/supported.png" alt="Supported" /></td>
<td></td>
</tr>
<tr>
<td>030-6-9 Geometry Mapped</td>
<td><img src="http://example.com/not_supported.png" alt="Not Supported" /> Mapped items are only used for reducers</td>
<td></td>
</tr>
<tr>
<td>040 Presentation</td>
<td><img src="http://example.com/supported.png" alt="Supported" /></td>
<td></td>
</tr>
<tr>
<td>040-1 Geometric Presentation</td>
<td><img src="http://example.com/supported.png" alt="Supported" /></td>
<td></td>
</tr>
<tr>
<td>100 Element Aggregation</td>
<td><img src="http://example.com/supported.png" alt="Supported" /></td>
<td></td>
</tr>
<tr>
<td>100-4 Port Assignment</td>
<td><img src="http://example.com/supported.png" alt="Supported" /></td>
<td></td>
</tr>
<tr>
<td>110 Connectivity</td>
<td><img src="http://example.com/supported.png" alt="Supported" /></td>
<td></td>
</tr>
<tr>
<td>110-5 Connectivity by Ports</td>
<td><img src="http://example.com/supported.png" alt="Supported" /></td>
<td></td>
</tr>
<tr>
<td>120 Spatial Containment</td>
<td><img src="http://example.com/supported.png" alt="Supported" /></td>
<td></td>
</tr>
<tr>
<td>130 Grouping</td>
<td><img src="http://example.com/supported.png" alt="Supported" /></td>
<td></td>
</tr>
<tr>
<td>130-2 Grouping to Systems</td>
<td><img src="http://example.com/supported.png" alt="Supported" /></td>
<td></td>
</tr>
</tbody>
</table>

### 206 IfcFlowFitting

<table>
<thead>
<tr>
<th>company statement</th>
<th>DuplexHouse_Sanitary / 2x3</th>
</tr>
</thead>
<tbody>
<tr>
<td>010 Naming</td>
<td><img src="http://example.com/supported.png" alt="Supported" /></td>
</tr>
<tr>
<td>Category</td>
<td>Subcategory</td>
</tr>
<tr>
<td>-------------------</td>
<td>--------------------------------------</td>
</tr>
<tr>
<td>020 Placement</td>
<td>020-2 Placement Relative</td>
</tr>
<tr>
<td>030 Geometry</td>
<td>030-6 Geometry Body</td>
</tr>
<tr>
<td></td>
<td>030-6-1 Geometry SweptSolid</td>
</tr>
<tr>
<td></td>
<td>030-6-5 Geometry Explicit</td>
</tr>
<tr>
<td></td>
<td>030-6-9 Geometry Mapped</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>040 Presentation</td>
<td>040-1 Geometric Presentation</td>
</tr>
<tr>
<td>100 Element Aggregation</td>
<td>100-4 Port Assignment</td>
</tr>
<tr>
<td>110 Connectivity</td>
<td>110-5 Connectivity by Ports</td>
</tr>
<tr>
<td>120 Spatial Containment</td>
<td></td>
</tr>
<tr>
<td>130 Grouping</td>
<td>130-2 Grouping to Systems</td>
</tr>
</tbody>
</table>

- **Company Statement**: DuplexHouse_Sanitary / 2x3

- **IfcFlowSegment**

<table>
<thead>
<tr>
<th>Category</th>
<th>Subcategory</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>010 Naming</td>
<td></td>
<td>Supported</td>
</tr>
<tr>
<td>020 Placement</td>
<td>020-2 Placement Relative</td>
<td>Supported</td>
</tr>
<tr>
<td>030 Geometry</td>
<td>030-6 Geometry Body</td>
<td>Supported</td>
</tr>
<tr>
<td></td>
<td>030-6-1 Geometry SweptSolid</td>
<td>Supported</td>
</tr>
<tr>
<td></td>
<td>030-6-5 Geometry Explicit</td>
<td>Restricted</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pipes are only represented with swept solids</td>
</tr>
<tr>
<td></td>
<td>030-6-9 Geometry Mapped</td>
<td>Restricted</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mapped items are only used for reducers</td>
</tr>
<tr>
<td>040 Presentation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>------------------------</td>
<td>---</td>
<td></td>
</tr>
<tr>
<td>040-1 Geometric Presentation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>100 Element Aggregation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>100-4 Port Assignment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>110 Connectivity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>110-5 Connectivity by Ports</td>
<td></td>
<td></td>
</tr>
<tr>
<td>120 Spatial Containment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>130 Grouping</td>
<td></td>
<td></td>
</tr>
<tr>
<td>130-2 Grouping to Systems</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>210 IfcFlowTerminal</strong></td>
<td>company statement</td>
<td></td>
</tr>
<tr>
<td>010 Naming</td>
<td></td>
<td></td>
</tr>
<tr>
<td>020 Placement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>020-2 Placement Relative</td>
<td></td>
<td></td>
</tr>
<tr>
<td>030 Geometry</td>
<td></td>
<td></td>
</tr>
<tr>
<td>030-6 Geometry Body</td>
<td></td>
<td></td>
</tr>
<tr>
<td>030-6-1 Geometry SweptSolid</td>
<td>Supported</td>
<td></td>
</tr>
<tr>
<td>030-6-5 Geometry Explicit</td>
<td>Supported</td>
<td></td>
</tr>
<tr>
<td>030-6-9 Geometry Mapped</td>
<td>Supported</td>
<td></td>
</tr>
<tr>
<td>040 Presentation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>040-1 Geometric Presentation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>050 CAD Layer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>100 Element Aggregation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>100-4 Port Assignment</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Swept solids are only used for pipes and elbows**
- **Mapped items are only used for reducers**
- **Some elements have connections other not**

DuplexHouse_Sanitary / 2x3
<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
<th>Supported</th>
<th>Restricted</th>
<th>Not Supported</th>
</tr>
</thead>
<tbody>
<tr>
<td>110 Connectivity</td>
<td>110-5 Connectivity by Ports</td>
<td></td>
<td></td>
<td>Some elements have connections other not</td>
</tr>
<tr>
<td>120 Spatial Containment</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>130 Grouping</td>
<td>130-2 Grouping to Systems</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>200 Material</td>
<td>200-1 Single Material</td>
<td></td>
<td></td>
<td>Not supported</td>
</tr>
<tr>
<td>210 Property Set</td>
<td>210-6 Property Set IFC any</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>210-9 Property Set User Defined</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>300 Type</td>
<td>300-1 Type Geometry</td>
<td></td>
<td></td>
<td>Not supported</td>
</tr>
<tr>
<td></td>
<td>300-2 Type Naming</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>300-3 Type Material</td>
<td></td>
<td></td>
<td>Not supported</td>
</tr>
<tr>
<td></td>
<td>300-5 Type Property Set</td>
<td></td>
<td></td>
<td>Not supported</td>
</tr>
<tr>
<td>507 IfcSystem</td>
<td>company statement</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>010 Naming</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>130 Grouping</td>
<td>130-5 Is Group</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>250 System Assignment</td>
<td>250-2 Services Spatial Element</td>
<td></td>
<td></td>
<td>Not supported</td>
</tr>
<tr>
<td>General</td>
<td>company statement</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>_G4 Remarks</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## DuplexHouse_Ventilation / 2x3

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Status</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>206</td>
<td>IfcFlowFitting</td>
<td>company statement</td>
<td>DuplexHouse_Ventilation / 2x3</td>
</tr>
<tr>
<td>010</td>
<td>Naming</td>
<td></td>
<td></td>
</tr>
<tr>
<td>020</td>
<td>Placement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>020-2</td>
<td>Placement Relative</td>
<td></td>
<td></td>
</tr>
<tr>
<td>030</td>
<td>Geometry</td>
<td></td>
<td></td>
</tr>
<tr>
<td>030-6</td>
<td>Geometry Body</td>
<td></td>
<td></td>
</tr>
<tr>
<td>030-6-1</td>
<td>Geometry SweptSolid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>030-6-5</td>
<td>Geometry Explicit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>030-6-9</td>
<td>Geometry Mapped</td>
<td></td>
<td>Mapped items are only used for reducers</td>
</tr>
<tr>
<td>040</td>
<td>Presentation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>040-1</td>
<td>Geometric Presentation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>100</td>
<td>Element Aggregation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>100-4</td>
<td>Port Assignment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>110</td>
<td>Connectivity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>110-5</td>
<td>Connectivity by Ports</td>
<td></td>
<td></td>
</tr>
<tr>
<td>120</td>
<td>Spatial Containment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>130</td>
<td>Grouping</td>
<td></td>
<td></td>
</tr>
<tr>
<td>130-2</td>
<td>Grouping to Systems</td>
<td></td>
<td></td>
</tr>
<tr>
<td>207</td>
<td>IfcFlowMovingDevice</td>
<td>company statement</td>
<td>DuplexHouse_Ventilation / 2x3</td>
</tr>
<tr>
<td>010</td>
<td>Naming</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Section</td>
<td>Subsection</td>
<td>Status</td>
<td></td>
</tr>
<tr>
<td>---------</td>
<td>------------</td>
<td>--------</td>
<td></td>
</tr>
<tr>
<td>020 Placement</td>
<td>020-2 Placement Relative</td>
<td>Supported</td>
<td></td>
</tr>
<tr>
<td>030 Geometry</td>
<td>030-6 Geometry Body</td>
<td>Supported</td>
<td></td>
</tr>
<tr>
<td></td>
<td>030-6-1 Geometry SweptSolid</td>
<td>Supported</td>
<td></td>
</tr>
<tr>
<td></td>
<td>030-6-5 Geometry Explicit</td>
<td>Supported</td>
<td></td>
</tr>
<tr>
<td></td>
<td>030-6-9 Geometry Mapped</td>
<td>Supported</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Swept solids are only used for pipes and elbows</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mapped items are only used for reducers</td>
<td></td>
<td></td>
</tr>
<tr>
<td>040 Presentation</td>
<td>040-1 Geometric Presentation</td>
<td>Supported</td>
<td></td>
</tr>
<tr>
<td>100 Element Aggregation</td>
<td>100-4 Port Assignment</td>
<td>Supported</td>
<td></td>
</tr>
<tr>
<td>110 Connectivity</td>
<td>110-5 Connectivity by Ports</td>
<td>Supported</td>
<td></td>
</tr>
<tr>
<td>120 Spatial Containment</td>
<td></td>
<td>Supported</td>
<td></td>
</tr>
<tr>
<td>130 Grouping</td>
<td>130-2 Grouping to Systems</td>
<td>Supported</td>
<td></td>
</tr>
<tr>
<td>208 IfcFlowSegment</td>
<td></td>
<td>Supported</td>
<td></td>
</tr>
</tbody>
</table>

**DuplexHouse_Ventilation / 2x3**

**Company Statement**

- Supported
- Restricted
- Not Supported
<table>
<thead>
<tr>
<th>040 Presentation</th>
<th>![Supported]</th>
</tr>
</thead>
<tbody>
<tr>
<td>040-1 Geometric Presentation</td>
<td>![Supported]</td>
</tr>
<tr>
<td>100 Element Aggregation</td>
<td>![Supported]</td>
</tr>
<tr>
<td>100-4 Port Assignment</td>
<td>![Supported]</td>
</tr>
<tr>
<td>110 Connectivity</td>
<td>![Supported]</td>
</tr>
<tr>
<td>110-5 Connectivity by Ports</td>
<td>![Supported]</td>
</tr>
<tr>
<td>120 Spatial Containment</td>
<td>![Supported]</td>
</tr>
<tr>
<td>130 Grouping</td>
<td>![Supported]</td>
</tr>
<tr>
<td>130-2 Grouping to Systems</td>
<td>![Supported]</td>
</tr>
</tbody>
</table>

**210 IfcFlowTerminal**

<table>
<thead>
<tr>
<th>Company Statement</th>
<th>DuplexHouse_Ventilation / 2x3</th>
</tr>
</thead>
<tbody>
<tr>
<td>010 Naming</td>
<td>![Supported]</td>
</tr>
<tr>
<td>020 Placement</td>
<td>![Supported]</td>
</tr>
<tr>
<td>020-2 Placement Relative</td>
<td>![Supported]</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>030 Geometry</th>
<th>![Supported]</th>
</tr>
</thead>
<tbody>
<tr>
<td>030-6 Geometry Body</td>
<td>![Supported]</td>
</tr>
<tr>
<td>030-6-1 Geometry SweptSolid</td>
<td>![Supported]</td>
</tr>
<tr>
<td>030-6-5 Geometry Explicit</td>
<td>![Supported]</td>
</tr>
<tr>
<td>030-6-9 Geometry Mapped</td>
<td>![Supported]</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>040 Presentation</th>
<th>![Supported]</th>
</tr>
</thead>
<tbody>
<tr>
<td>040-1 Geometric Presentation</td>
<td>![Supported]</td>
</tr>
<tr>
<td>100 Element Aggregation</td>
<td>![Supported]</td>
</tr>
<tr>
<td>100-4 Port Assignment</td>
<td>![Supported]</td>
</tr>
<tr>
<td>110 Connectivity</td>
<td>![Supported]</td>
</tr>
<tr>
<td>110-5 Connectivity by Ports</td>
<td>![Supported]</td>
</tr>
<tr>
<td>120 Spatial Containment</td>
<td>![Supported]</td>
</tr>
</tbody>
</table>

**Legend:**
- **Supported**
- **Restricted**
- **Not Supported**
<table>
<thead>
<tr>
<th>130 Grouping</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>130-2 Grouping to Systems</td>
<td>![Supported]</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>010 Naming</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>![Supported]</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>130 Grouping</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>130-5 Is Group</td>
<td>![Not supported]</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>250 System Assignment</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>250-2 Services Spatial Element</td>
<td>![Not supported]</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>General</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>![Supported]</td>
<td></td>
</tr>
</tbody>
</table>

_G4 Remarks_ | ![Supported] |

DuplexHouse_Ventilation / 2x3
<table>
<thead>
<tr>
<th>103 IfcBeam</th>
<th>company statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>002 History</td>
<td></td>
</tr>
<tr>
<td>010 Naming</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>105 IfcSlab</th>
<th>company statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>001 GUIDs</td>
<td></td>
</tr>
<tr>
<td>002 History</td>
<td></td>
</tr>
<tr>
<td>010 Naming</td>
<td></td>
</tr>
<tr>
<td>020 Placement</td>
<td></td>
</tr>
<tr>
<td>020-2 Placement Relative</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>030 Geometry</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>030-6 Geometry Body</td>
<td></td>
</tr>
<tr>
<td>030-6-5 Geometry Explicit</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>040 Presentation</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>040-1 Geometric Presentation</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>050 CAD Layer</th>
<th></th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>200 Material</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>200-1 Single Material</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>210 Property Set</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>210-3 Property Set User Defined</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>108 IfcRailing</th>
<th>company statement</th>
</tr>
</thead>
</table>

- **Supported**
- **Not Supported**
- **Restricted**
<table>
<thead>
<tr>
<th>ID</th>
<th>Description</th>
<th>Supported</th>
<th>Restricted</th>
<th>Not Supported</th>
</tr>
</thead>
<tbody>
<tr>
<td>001</td>
<td>GUIDs</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>002</td>
<td>History</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>010</td>
<td>Naming</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>020</td>
<td>Placement</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>020-2</td>
<td>Placement Relative</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>030</td>
<td>Geometry</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>030-6</td>
<td>Geometry Body</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>030-6-5</td>
<td>Geometry Explicit</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>050</td>
<td>CAD Layer</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>210</td>
<td>Property Set</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>210-3</td>
<td>Property Set User Defined</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>208</td>
<td>IfcFlowSegment</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**company statement**
<table>
<thead>
<tr>
<th>Classification</th>
<th>Description</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>120 Spatial Containment</td>
<td></td>
<td>Supported</td>
</tr>
<tr>
<td>130 Grouping</td>
<td></td>
<td>Supported</td>
</tr>
<tr>
<td>130-2 Grouping to Systems</td>
<td></td>
<td>Supported</td>
</tr>
<tr>
<td>401 IfcMember</td>
<td></td>
<td>Supported</td>
</tr>
<tr>
<td>001 GUIDs</td>
<td></td>
<td>Supported</td>
</tr>
<tr>
<td>002 History</td>
<td></td>
<td>Supported</td>
</tr>
<tr>
<td>010 Naming</td>
<td></td>
<td>Supported</td>
</tr>
<tr>
<td>020 Placement</td>
<td></td>
<td>Supported</td>
</tr>
<tr>
<td>020-2 Placement Relative</td>
<td></td>
<td>Supported</td>
</tr>
<tr>
<td>030 Geometry</td>
<td></td>
<td>Supported</td>
</tr>
<tr>
<td>030-6 Geometry Body</td>
<td></td>
<td>Supported</td>
</tr>
<tr>
<td>030-6-5 Geometry Explicit</td>
<td></td>
<td>Supported</td>
</tr>
<tr>
<td>050 CAD Layer</td>
<td></td>
<td>Supported</td>
</tr>
<tr>
<td>210 Property Set</td>
<td></td>
<td>Supported</td>
</tr>
<tr>
<td>210-3 Property Set User Defined</td>
<td></td>
<td>Supported</td>
</tr>
<tr>
<td>402 IfcPlate</td>
<td></td>
<td>Supported</td>
</tr>
<tr>
<td>001 GUIDs</td>
<td></td>
<td>Supported</td>
</tr>
<tr>
<td>002 History</td>
<td></td>
<td>Supported</td>
</tr>
<tr>
<td>010 Naming</td>
<td></td>
<td>Supported</td>
</tr>
<tr>
<td>020 Placement</td>
<td></td>
<td>Supported</td>
</tr>
<tr>
<td>020-2 Placement Relative</td>
<td></td>
<td>Supported</td>
</tr>
<tr>
<td>030 Geometry</td>
<td></td>
<td>Supported</td>
</tr>
<tr>
<td>030-6 Geometry Body</td>
<td></td>
<td>Supported</td>
</tr>
<tr>
<td>030-6-5 Geometry Explicit</td>
<td></td>
<td>Supported</td>
</tr>
<tr>
<td>050 CAD Layer</td>
<td></td>
<td>Supported</td>
</tr>
<tr>
<td>Property Set</td>
<td>Value</td>
<td></td>
</tr>
<tr>
<td>-----------------------------------</td>
<td>-----------</td>
<td></td>
</tr>
<tr>
<td>210 Property Set</td>
<td></td>
<td></td>
</tr>
<tr>
<td>210-3 Property Set User Defined</td>
<td>Supported</td>
<td></td>
</tr>
<tr>
<td>507 IfcSystem</td>
<td>company statement</td>
<td></td>
</tr>
<tr>
<td>010 Naming</td>
<td>Supported</td>
<td></td>
</tr>
<tr>
<td>130 Grouping</td>
<td>Supported</td>
<td></td>
</tr>
<tr>
<td>130-5 Is Group</td>
<td>Supported</td>
<td></td>
</tr>
<tr>
<td>250 System Assignment</td>
<td>Not supported</td>
<td></td>
</tr>
<tr>
<td>250-2 Services Spatial Element</td>
<td>Not supported</td>
<td></td>
</tr>
<tr>
<td>General</td>
<td>company statement</td>
<td></td>
</tr>
<tr>
<td>_G4 Remarks</td>
<td>Supported</td>
<td></td>
</tr>
</tbody>
</table>
### RandomMEP-X2 / 2x3

<table>
<thead>
<tr>
<th>205 IfcFlowController</th>
<th>company statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>001 GUIDs</td>
<td>Supported</td>
</tr>
<tr>
<td>002 History</td>
<td>Supported</td>
</tr>
<tr>
<td>010 Naming</td>
<td>Supported</td>
</tr>
<tr>
<td>020 Placement</td>
<td></td>
</tr>
<tr>
<td>020-2 Placement Relative</td>
<td>Supported</td>
</tr>
<tr>
<td>030 Geometry</td>
<td></td>
</tr>
<tr>
<td>030-6 Geometry Body</td>
<td></td>
</tr>
<tr>
<td>030-6-5 Geometry Explicit</td>
<td>Not Supported</td>
</tr>
<tr>
<td>030-6-9 Geometry Mapped</td>
<td>Not Supported</td>
</tr>
<tr>
<td>040 Presentation</td>
<td></td>
</tr>
<tr>
<td>040-1 Geometric Presentation</td>
<td>Not Supported</td>
</tr>
<tr>
<td>050 CAD Layer</td>
<td>Supported</td>
</tr>
<tr>
<td>100 Element Aggregation</td>
<td></td>
</tr>
<tr>
<td>100-4 Port Assignment</td>
<td>Not Supported</td>
</tr>
<tr>
<td>110 Connectivity</td>
<td></td>
</tr>
<tr>
<td>110-5 Connectivity by Ports</td>
<td>Not Supported</td>
</tr>
<tr>
<td>120 Spatial Containment</td>
<td></td>
</tr>
<tr>
<td>130 Grouping</td>
<td></td>
</tr>
<tr>
<td>130-2 Grouping to Systems</td>
<td>Not Supported</td>
</tr>
</tbody>
</table>

- **Supported**
- **Restricted**
- **Not Supported**
| 210 Property Set      |  
|-----------------------|---
| 210-3 Property Set User Defined | ![Not supported]  
| 230 Classification    | ![Not supported]  
| 300 Type              |  
| 300-1 Type Geometry   | ![Not supported]  
| 300-2 Type Naming     | ![Not supported]  
| 300-5 Type Property Set | ![Not supported for the provided model]  

| 206 IfcFlowFitting    |  
|-----------------------|---
| 001 GUIDs             | ![Supported]  
| 002 History           | ![Supported]  
| 010 Naming            | ![Supported]  
| 020 Placement         |  
| 020-2 Placement Relative | ![Supported]  
| 030 Geometry          |  
| 030-6 Geometry Body   |  
| 030-6-1 Geometry SweptSolid | ![Supported]  
| 030-6-5 Geometry Explicit | ![Supported]  
| 030-6-9 Geometry Mapped | ![Supported]  
| 040 Presentation      |  
| 040-1 Geometric Presentation | ![Supported]  
| 050 CAD Layer         | ![Supported]  
| 100 Element Aggregation |  
| 100-4 Port Assignment | ![Supported]  
| 110 Connectivity      |  
| 110-5 Connectivity by Ports | ![Supported]  

Supported | Restricted | Not Supported
<table>
<thead>
<tr>
<th>120 Spatial Containment</th>
<th>Supported</th>
</tr>
</thead>
<tbody>
<tr>
<td>130 Grouping</td>
<td>Supported</td>
</tr>
<tr>
<td>130-2 Grouping to Systems</td>
<td>Supported</td>
</tr>
<tr>
<td>210 Property Set</td>
<td>Supported</td>
</tr>
<tr>
<td>210-9 Property Set User Defined</td>
<td>Supported</td>
</tr>
<tr>
<td>230 Classification</td>
<td>Not supported</td>
</tr>
<tr>
<td>300 Type</td>
<td>Supported</td>
</tr>
<tr>
<td>300-1 Type Geometry</td>
<td>Not supported</td>
</tr>
<tr>
<td>300-2 Type Naming</td>
<td>Supported</td>
</tr>
<tr>
<td>300-5 Type Property Set</td>
<td>Not supported for the provided model</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>208 IfcFlowSegment</th>
<th>company statement</th>
<th>Random MEP-X2 / 2x3</th>
</tr>
</thead>
<tbody>
<tr>
<td>002 History</td>
<td>Supported</td>
<td></td>
</tr>
<tr>
<td>010 Naming</td>
<td>Supported</td>
<td></td>
</tr>
<tr>
<td>020 Placement</td>
<td>Supported</td>
<td></td>
</tr>
<tr>
<td>020-2 Placement Relative</td>
<td>Supported</td>
<td></td>
</tr>
<tr>
<td>030 Geometry</td>
<td></td>
<td></td>
</tr>
<tr>
<td>030-6 Geometry Body</td>
<td></td>
<td></td>
</tr>
<tr>
<td>030-6-1 Geometry SweptSolid</td>
<td>Supported</td>
<td></td>
</tr>
<tr>
<td>030-6-5 Geometry Explicit</td>
<td>Supported</td>
<td>Pipes are only represented with swept solids</td>
</tr>
<tr>
<td>030-6-9 Geometry Mapped</td>
<td>Supported</td>
<td>Mapped items are only used for reducers</td>
</tr>
<tr>
<td>040 Presentation</td>
<td>Supported</td>
<td></td>
</tr>
<tr>
<td>040-1 Geometric Presentation</td>
<td>Supported</td>
<td></td>
</tr>
<tr>
<td>050 CAD Layer</td>
<td>Supported</td>
<td></td>
</tr>
<tr>
<td>100 Element Aggregation</td>
<td>Supported</td>
<td></td>
</tr>
<tr>
<td>100-4 Port Assignment</td>
<td>Supported</td>
<td></td>
</tr>
<tr>
<td>110 Connectivity</td>
<td>110-5 Connectivity by Ports</td>
<td>Supported</td>
</tr>
<tr>
<td>------------------------</td>
<td>-----------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>120 Spatial Containment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>130 Grouping</td>
<td>130-2 Grouping to Systems</td>
<td>Not supported</td>
</tr>
<tr>
<td>210 Property Set</td>
<td>210-9 Property Set User Defined</td>
<td>Not supported</td>
</tr>
<tr>
<td>230 Classification</td>
<td></td>
<td></td>
</tr>
<tr>
<td>300 Type</td>
<td>300-2 Type Naming</td>
<td>Not supported for the provided model</td>
</tr>
<tr>
<td></td>
<td>300-5 Type Property Set</td>
<td></td>
</tr>
<tr>
<td>210 IfcFlowTerminal</td>
<td></td>
<td>company statement</td>
</tr>
<tr>
<td>401 IfcMember</td>
<td></td>
<td>company statement</td>
</tr>
<tr>
<td>001 GUIDs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>002 History</td>
<td></td>
<td></td>
</tr>
<tr>
<td>010 Naming</td>
<td></td>
<td></td>
</tr>
<tr>
<td>020 Placement</td>
<td>020-2 Placement Relative</td>
<td></td>
</tr>
<tr>
<td>030 Geometry</td>
<td>030-6 Geometry Body</td>
<td></td>
</tr>
<tr>
<td></td>
<td>030-6-5 Geometry Explicit</td>
<td></td>
</tr>
<tr>
<td>050 CAD Layer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>210 Property Set</td>
<td>210-3 Property Set User Defined</td>
<td></td>
</tr>
<tr>
<td>507 IfcSystem</td>
<td></td>
<td>company statement</td>
</tr>
<tr>
<td>Feature</td>
<td>Status</td>
<td></td>
</tr>
<tr>
<td>------------------------</td>
<td>----------</td>
<td></td>
</tr>
<tr>
<td>010 Naming</td>
<td>Supported</td>
<td></td>
</tr>
<tr>
<td>130 Grouping</td>
<td>Supported</td>
<td></td>
</tr>
<tr>
<td>130-5 Is Group</td>
<td>Supported</td>
<td></td>
</tr>
<tr>
<td>250 System Assignment</td>
<td>Not supported</td>
<td></td>
</tr>
<tr>
<td>250-2 Services Spatial Element</td>
<td>Not supported</td>
<td></td>
</tr>
</tbody>
</table>

**General**

*company statement*

**_G4 Remarks_**

*RandomMEP-X2 / 2x3*
### RandomMEP-X3 / 2x3

#### 205 IfcFlowController

<table>
<thead>
<tr>
<th>001 GUIDs</th>
<th>Supported</th>
</tr>
</thead>
<tbody>
<tr>
<td>010 Naming</td>
<td>Supported</td>
</tr>
<tr>
<td>020 Placement</td>
<td>Supported</td>
</tr>
<tr>
<td>020-2 Placement Relative</td>
<td>Supported</td>
</tr>
<tr>
<td>030 Geometry</td>
<td>Supported</td>
</tr>
<tr>
<td>030-6 Geometry Body</td>
<td>Supported</td>
</tr>
<tr>
<td>030-6-5 Geometry Explicit</td>
<td>Supported</td>
</tr>
<tr>
<td>110 Connectivity</td>
<td>Supported</td>
</tr>
<tr>
<td>110-5 Connectivity by Ports</td>
<td>Supported</td>
</tr>
<tr>
<td>120 Spatial Containment</td>
<td>Supported</td>
</tr>
<tr>
<td>130 Grouping</td>
<td>Supported</td>
</tr>
<tr>
<td>130-2 Grouping to Systems</td>
<td>Supported</td>
</tr>
</tbody>
</table>

#### 206 IfcFlowFitting

<table>
<thead>
<tr>
<th>001 GUIDs</th>
<th>Supported</th>
</tr>
</thead>
<tbody>
<tr>
<td>002 History</td>
<td>Supported</td>
</tr>
<tr>
<td>010 Naming</td>
<td>Supported</td>
</tr>
<tr>
<td>020 Placement</td>
<td>Supported</td>
</tr>
<tr>
<td>020-2 Placement Relative</td>
<td>Supported</td>
</tr>
<tr>
<td>030 Geometry</td>
<td></td>
</tr>
<tr>
<td>--------------</td>
<td></td>
</tr>
<tr>
<td>030-6 Geometry Body</td>
<td></td>
</tr>
<tr>
<td>030-6-1 Geometry SweptSolid</td>
<td></td>
</tr>
<tr>
<td>030-6-5 Geometry Explicit</td>
<td></td>
</tr>
<tr>
<td>030-6-9 Geometry Mapped</td>
<td></td>
</tr>
</tbody>
</table>
  
  **Mapped items are only used for reducers**  
| 040 Presentation |  
| 040-1 Geometric Presentation |  
| 050 CAD Layer |  
| 100 Element Aggregation |  
| 100-4 Port Assignment |  
| 110 Connectivity |  
| 110-5 Connectivity by Ports |  
| 120 Spatial Containment |  
| 130 Grouping |  
| 130-2 Grouping to Systems |  
| 210 Property Set |  
| 210-9 Property Set User Defined |  
| 208 IfcFlowSegment |  
| company statement |  
| RandomMEP-X3 / 2x3 |  
| 001 GUIDs |  
| 002 History |  
| 010 Naming |  
| 020 Placement |  
| 020-2 Placement Relative |  

**Legend:**
- **Green** = Supported
- **Yellow** = Restricted
- **Red** = Not Supported
<table>
<thead>
<tr>
<th>030 Geometry</th>
<th>030-6 Geometry Body</th>
<th>030-6-1 Geometry SweptSolid</th>
</tr>
</thead>
<tbody>
<tr>
<td>040 Presentation</td>
<td>040-1 Geometric Presentation</td>
<td></td>
</tr>
<tr>
<td>050 CAD Layer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>100 Element Aggregation</td>
<td>100-4 Port Assignment</td>
<td></td>
</tr>
<tr>
<td>110 Connectivity</td>
<td>110-5 Connectivity by Ports</td>
<td></td>
</tr>
<tr>
<td>120 Spatial Containment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>130 Grouping</td>
<td>130-2 Grouping to Systems</td>
<td></td>
</tr>
<tr>
<td>210 Property Set</td>
<td>210-9 Property Set User Defined</td>
<td></td>
</tr>
<tr>
<td>300 Type</td>
<td>300-2 Type Naming</td>
<td>300-5 Type Property Set</td>
</tr>
<tr>
<td>210 IfcFlowTerminal</td>
<td>company statement</td>
<td>RandomMEP-X3 / 2x3</td>
</tr>
<tr>
<td>001 GUIDs</td>
<td>002 History</td>
<td>010 Naming</td>
</tr>
<tr>
<td>020 Placement</td>
<td>020-2 Placement Relative</td>
<td></td>
</tr>
<tr>
<td>Category</td>
<td>Subcategory</td>
<td>Status</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>------------------------------------</td>
<td>------------</td>
</tr>
<tr>
<td>030 Geometry</td>
<td>030-6 Geometry Body</td>
<td>Supported</td>
</tr>
<tr>
<td></td>
<td>030-6-5 Geometry Explicit</td>
<td>Supported</td>
</tr>
<tr>
<td>040 Presentation</td>
<td>040-1 Geometric Presentation</td>
<td>Supported</td>
</tr>
<tr>
<td>050 CAD Layer</td>
<td></td>
<td>Supported</td>
</tr>
<tr>
<td>100 Element Aggregation</td>
<td>100-4 Port Assignment</td>
<td>Supported</td>
</tr>
<tr>
<td>110 Connectivity</td>
<td>110-5 Connectivity by Ports</td>
<td>Supported</td>
</tr>
<tr>
<td>120 Spatial Containment</td>
<td></td>
<td>Supported</td>
</tr>
<tr>
<td>130 Grouping</td>
<td>130-2 Grouping to Systems</td>
<td>Supported</td>
</tr>
<tr>
<td>210 Property Set</td>
<td>210-9 Property Set User Defined</td>
<td>Supported</td>
</tr>
<tr>
<td>230 Classification</td>
<td></td>
<td>Not supported</td>
</tr>
<tr>
<td>300 Type</td>
<td>300-2 Type Naming</td>
<td>Supported</td>
</tr>
<tr>
<td></td>
<td>300-5 Type Property Set</td>
<td>Supported</td>
</tr>
<tr>
<td>506 IfcGroup</td>
<td></td>
<td>company statement</td>
</tr>
<tr>
<td></td>
<td>001 GUIDs</td>
<td>Supported</td>
</tr>
<tr>
<td></td>
<td>010 Naming</td>
<td>Supported</td>
</tr>
<tr>
<td></td>
<td>130 Grouping</td>
<td>Supported</td>
</tr>
<tr>
<td></td>
<td>130-5 Is Group</td>
<td>Supported</td>
</tr>
<tr>
<td>507 IfcSystem</td>
<td></td>
<td>company statement</td>
</tr>
</tbody>
</table>

* company statement

* company statement
<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>010 Naming</td>
<td>Supported</td>
</tr>
<tr>
<td>130 Grouping</td>
<td>Supported</td>
</tr>
<tr>
<td>130-5 Is Group</td>
<td>Supported</td>
</tr>
<tr>
<td>General</td>
<td>company statement</td>
</tr>
<tr>
<td>_G4 Remarks</td>
<td>Supported</td>
</tr>
</tbody>
</table>
## RandomMEP-X4 / 2x3

### 205 IfcFlowController

<table>
<thead>
<tr>
<th>Feature</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>001 GUIDs</td>
<td>Supported</td>
</tr>
<tr>
<td>002 History</td>
<td>Supported</td>
</tr>
<tr>
<td>010 Naming</td>
<td>Supported</td>
</tr>
<tr>
<td>020 Placement</td>
<td></td>
</tr>
<tr>
<td>020-2 Placement Relative</td>
<td>Supported</td>
</tr>
<tr>
<td>030 Geometry</td>
<td></td>
</tr>
<tr>
<td>030-6 Geometry Body</td>
<td></td>
</tr>
<tr>
<td>030-6-5 Geometry Explicit</td>
<td>Supported</td>
</tr>
<tr>
<td>050 CAD Layer</td>
<td></td>
</tr>
<tr>
<td>120 Spatial Containment</td>
<td></td>
</tr>
<tr>
<td>210 Property Set</td>
<td></td>
</tr>
<tr>
<td>210-3 Property Set User Defined</td>
<td>Supported</td>
</tr>
</tbody>
</table>

### 206 IfcFlowFitting

<table>
<thead>
<tr>
<th>Feature</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>001 GUIDs</td>
<td>Supported</td>
</tr>
<tr>
<td>002 History</td>
<td>Supported</td>
</tr>
<tr>
<td>010 Naming</td>
<td>Supported</td>
</tr>
<tr>
<td>020 Placement</td>
<td></td>
</tr>
<tr>
<td>020-2 Placement Relative</td>
<td>Supported</td>
</tr>
<tr>
<td>030 Geometry</td>
<td>030-6 Geometry Body</td>
</tr>
<tr>
<td>----------------------</td>
<td>---------------------</td>
</tr>
<tr>
<td></td>
<td>030-6-5 Geometry Explicit</td>
</tr>
<tr>
<td>040 Presentation</td>
<td>040-1 Geometric Presentation</td>
</tr>
<tr>
<td>050 CAD Layer</td>
<td></td>
</tr>
<tr>
<td>100 Element Aggregation</td>
<td>100-4 Port Assignment</td>
</tr>
<tr>
<td>110 Connectivity</td>
<td>110-5 Connectivity by Ports</td>
</tr>
<tr>
<td>120 Spatial Containment</td>
<td></td>
</tr>
<tr>
<td>130 Grouping</td>
<td>130-2 Grouping to Systems</td>
</tr>
<tr>
<td>210 Property Set</td>
<td>210-9 Property Set User Defined</td>
</tr>
<tr>
<td>300 Type</td>
<td>300-2 Type Naming</td>
</tr>
<tr>
<td>208 IfcFlowSegment</td>
<td>company statement</td>
</tr>
</tbody>
</table>

**Supported**

**Not Supported**

**RandomMEP-X4 / 2x3**
<table>
<thead>
<tr>
<th>Section</th>
<th>Subsection</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>030 Geometry</td>
<td>030-6 Geometry Body</td>
<td></td>
</tr>
<tr>
<td></td>
<td>030-6-5 Geometry Explicit</td>
<td>Supported</td>
</tr>
<tr>
<td>040 Presentation</td>
<td>040-1 Geometric Presentation</td>
<td>Supported</td>
</tr>
<tr>
<td>050 CAD Layer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>100 Element Aggregation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>100-4 Port Assignment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>110 Connectivity</td>
<td>110-5 Connectivity by Ports</td>
<td>Supported</td>
</tr>
<tr>
<td>120 Spatial Containment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>130 Grouping</td>
<td>130-2 Grouping to Systems</td>
<td></td>
</tr>
<tr>
<td>210 Property Set</td>
<td>210-9 Property Set User Defined</td>
<td>Supported</td>
</tr>
<tr>
<td>230 Classification</td>
<td></td>
<td>Not supported</td>
</tr>
<tr>
<td>300 Type</td>
<td>300-2 Type Naming</td>
<td></td>
</tr>
<tr>
<td>501 IfcProject</td>
<td></td>
<td>company statement</td>
</tr>
<tr>
<td>002 History</td>
<td></td>
<td></td>
</tr>
<tr>
<td>008 Representation Context</td>
<td></td>
<td></td>
</tr>
<tr>
<td>008-1 Representation Main Context</td>
<td></td>
<td></td>
</tr>
<tr>
<td>008-2 Representation Sub Context</td>
<td></td>
<td></td>
</tr>
<tr>
<td>008-2-2 Representation Sub Context 3D</td>
<td></td>
<td></td>
</tr>
<tr>
<td>507 IfcSystem</td>
<td></td>
<td>company statement</td>
</tr>
</tbody>
</table>

Supported | Restricted | Not Supported

RandomMEP-X4 / 2x3
<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>010 Naming</td>
<td></td>
<td></td>
</tr>
<tr>
<td>130 Grouping</td>
<td></td>
<td></td>
</tr>
<tr>
<td>130-2 Grouping to Systems</td>
<td></td>
<td></td>
</tr>
<tr>
<td>130-5 Is Group</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General</td>
<td>company statement</td>
<td></td>
</tr>
<tr>
<td>_G4 Remarks</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Supported  | Restricted  | Not Supported | RandomMEP-X4 / 2x3
### 212 IfcTransportElement

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>company statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>001 GUIDs</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>002 History</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>010 Naming</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>020 Placement</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>020-2 Placement Relative</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>030 Geometry</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>030-6 Geometry Body</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>030-6-5 Geometry Explicit</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>040 Presentation</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>040-1 Geometric Presentation</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>210 Property Set</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>210-3 Property Set User Defined</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>300 Type</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>300-2 Type Naming</td>
<td></td>
<td>✓</td>
</tr>
</tbody>
</table>

### 304 IfcFurnishingElement

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>company statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>001 GUIDs</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>002 History</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>010 Naming</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>020 Placement</td>
<td>020-2 Placement Relative</td>
<td>Supported</td>
</tr>
<tr>
<td>---------------</td>
<td>-------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>030 Geometry</td>
<td>030-6 Geometry Body</td>
<td>Supported</td>
</tr>
<tr>
<td></td>
<td>030-6-5 Geometry Explicit</td>
<td>Supported</td>
</tr>
<tr>
<td>040 Presentation</td>
<td>040-1 Geometric Presentation</td>
<td>Supported</td>
</tr>
<tr>
<td>050 CAD Layer</td>
<td></td>
<td>Supported</td>
</tr>
<tr>
<td>210 Property Set</td>
<td>210-9 Property Set User Defined</td>
<td>Supported</td>
</tr>
<tr>
<td>507 IfcSystem</td>
<td>company statement</td>
<td>Supported</td>
</tr>
<tr>
<td>General</td>
<td>company statement</td>
<td>Supported</td>
</tr>
</tbody>
</table>

_randomMEP-X5 / 2x3

Supported: Green, Restricted: Yellow, Not Supported: Red
### Space_01MEP / 2x3

<table>
<thead>
<tr>
<th>111 IfcBuildingElementProxy</th>
<th>company statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>010 Naming</td>
<td>☑</td>
</tr>
<tr>
<td>020 Placement</td>
<td>☑</td>
</tr>
<tr>
<td>020-2 Placement Relative</td>
<td>☑</td>
</tr>
<tr>
<td>030 Geometry</td>
<td></td>
</tr>
<tr>
<td>030-6 Geometry Body</td>
<td></td>
</tr>
<tr>
<td>030-6-1 Geometry SweptSolid</td>
<td>☑</td>
</tr>
</tbody>
</table>

| 210 Property Set            |                   |
| 210-2 Property Set IFC any  | ☑                 |

<table>
<thead>
<tr>
<th>505 IfcSpace</th>
<th>company statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>001 GUIDs</td>
<td>☑</td>
</tr>
<tr>
<td>002 History</td>
<td>☑</td>
</tr>
<tr>
<td>010 Naming</td>
<td>☑</td>
</tr>
<tr>
<td>020 Placement</td>
<td>☑</td>
</tr>
<tr>
<td>020-2 Placement Relative</td>
<td>☑</td>
</tr>
<tr>
<td>030 Geometry</td>
<td></td>
</tr>
<tr>
<td>030-6 Geometry Body</td>
<td></td>
</tr>
<tr>
<td>030-6-1 Geometry SweptSolid</td>
<td>☑</td>
</tr>
<tr>
<td>030-6-2 Geometry Clipping</td>
<td>☑</td>
</tr>
</tbody>
</table>

TRICAD only supports extruded surfaces and free volumes but without clipping.
<table>
<thead>
<tr>
<th>040 Presentation</th>
<th>040-1 Geometric Presentation</th>
<th>Supported</th>
</tr>
</thead>
<tbody>
<tr>
<td>050 CAD Layer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>150 Spatial Aggregation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>150-1 Spatial Composition</td>
<td></td>
<td></td>
</tr>
<tr>
<td>210 Property Set</td>
<td></td>
<td></td>
</tr>
<tr>
<td>210-6 Property Set IFC any</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General</td>
<td></td>
<td>company statement</td>
</tr>
<tr>
<td>_G4 Remarks</td>
<td></td>
<td></td>
</tr>
<tr>
<td>501 IfcProject</td>
<td>company statement</td>
<td>UnitTest-01MEP / 2x3</td>
</tr>
<tr>
<td>----------------</td>
<td>-------------------</td>
<td>---------------------</td>
</tr>
<tr>
<td>005 Project Units</td>
<td></td>
<td></td>
</tr>
<tr>
<td>005-1 Project Metric Units</td>
<td></td>
<td>TRICAD_MS always works and exports the measurements in mm even if the design file format is set to another unit</td>
</tr>
<tr>
<td>005-2 Project Imperial Units</td>
<td></td>
<td>TRICAD_MS always works and exports the measurements in mm even if the design file format is set to another unit</td>
</tr>
<tr>
<td>General</td>
<td>company statement</td>
<td></td>
</tr>
</tbody>
</table>