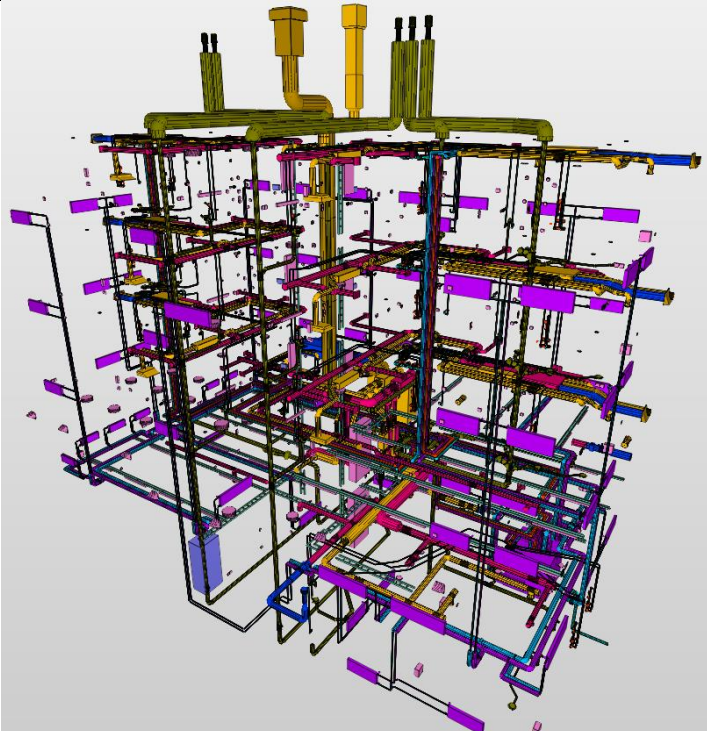


BIM Specification

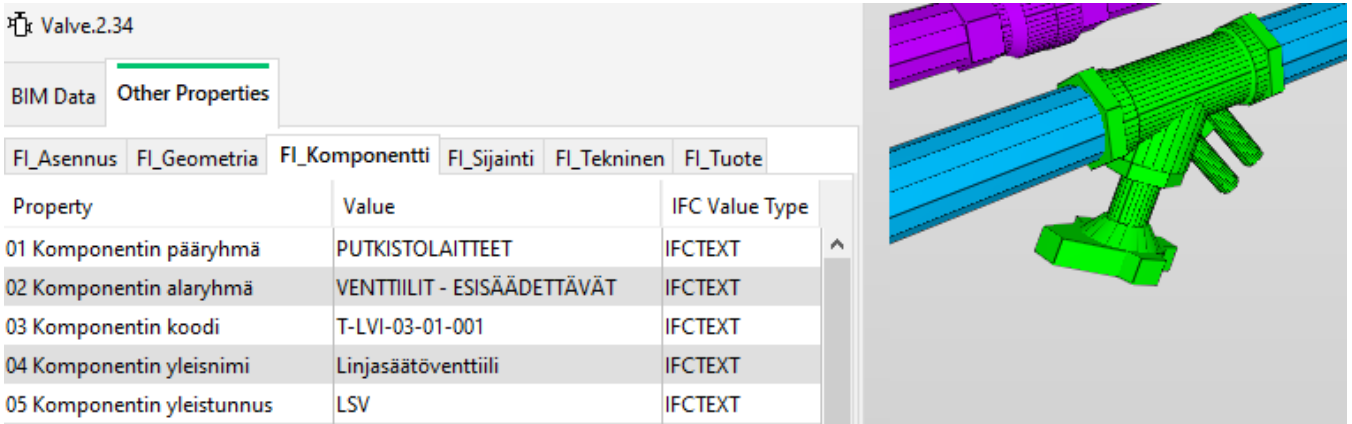
HVAC_NordicLCA_Housing_Concrete_BuildingPermit.ifc

DISCIPLINE	HVAC
View of the model	
Project	BIM4LCA
Design phase	Detail Design
Initial date	16.6.2024
Revision date	
Revision version	
Company	Granlund Oy
BIM4LCA project leader	Rita Lavikka, VTT
Software	MagiCAD for Revit 2024
Native model	HVAC_NordicLCA_Housing_Concrete_BuildingPermit.rvt
More info on, comments...	

OVERVIEW OF MODELING PRINCIPLES	
Nomenclatures to be used	-
Naming product components	http://uri.suomi.fi/codelist/rytj/LVI-TUOTEOSA Versio 1_0
Naming of systems	http://uri.suomi.fi/codelist/rytj/LVI-JARJESTELMA Versio 1_0
Units	mm
Coordinate reference system	ETRS-GK 25 coordinate system N2000-height system

Origo (x,y,z)	<div> <div>X = E = I</div> <div>Y = N = P</div> <div>Z</div> </div> <div> Origo25505171,7876707188,7160,000 </div> <p>The project does not rotate models in the project coordinate system, all models are modeled at a real-world angle.</p>
Floor names and floor elevations	Merenpinta +0,00 Perustukset +47,30 Kellari +49,07 01_Kerros +52,00 02_Kerros +54,93 03_Kerros +58,03 04_Kerros +61,13 Vesikatto +64,03
IFC-version	IFC4
Model accuracy	Detail Design
Deviations from the level of accuracy	-
Information content	According to Rava3pro project (www.rava3pro.fi , https://search.bsdd.buildingsmart.org/uri/finnish-mep/FI-MEP/1.0)
Deviations from the data content	-

Example how to recognize MEP component



Component common names can be found from in Finnish national common code platform:
http://uri.suomi.fi/codelist/rytj/LVI-TUOTEOSA_Versio_1_0

Identification of components		
Property Set	Property	Values used
FI_Komponentti	01 Komponentin pääryhmä	Level 1: "Koodin nimi" http://uri.suomi.fi/codelist/rytj/LVI-TUOTEOSA_Versio_1_0
FI_Komponentti	01 Komponentin alaryhmä	Level 2: "Koodin nimi" http://uri.suomi.fi/codelist/rytj/LVI-TUOTEOSA_Versio_1_0
FI_Komponentti	01 Komponentin koodi	Level 3: "Koodin arvo" http://uri.suomi.fi/codelist/rytj/LVI-TUOTEOSA_Versio_1_0



BIM SPECIFICATION

3 (4)
16.6.2024

FI_Komponentti	01 Komponentin yleisnimi	Level 3: "Koodin nimi" http://uri.suomi.fi/codelist/rytj/LVI-TUOTEOSA_Versio_1_0
FI_Komponentti	01 Komponentin yleistunnus	Level 3: "Lyhyt nimi" http://uri.suomi.fi/codelist/rytj/LVI-TUOTEOSA_Versio_1_0

Identification of systems		
Property Set	Property	Values used
FI_Järjestelmä	01 Järjestelmälaaji	Level 1: http://uri.suomi.fi/codelist/rytj/LVI-JARJESTELMA_Versio_1_0/code/J-LVI
FI_Järjestelmä	01 Järjestelmäluokka	Level 2: "Koodin nimi" http://uri.suomi.fi/codelist/rytj/LVI-JARJESTELMA_Versio_1_0/code/J-LVI
FI_Järjestelmä	01 Järjestelmän koodi	Level 3: "Koodin arvo" http://uri.suomi.fi/codelist/rytj/LVI-JARJESTELMA_Versio_1_0/code/J-LVI
FI_Järjestelmä	01 Järjestelmätyyppi	Level 3: "Koodin nimi" http://uri.suomi.fi/codelist/rytj/LVI-JARJESTELMA_Versio_1_0/code/J-LVI
FI_Järjestelmä	01 Järjestelmätyypin yleistunnus	Level 3: "Lyhyt nimi" http://uri.suomi.fi/codelist/rytj/LVI-JARJESTELMA_Versio_1_0/code/J-LVI

PROPERTY NAMES:

CODE (level 1)	COMPONENT GROUP	
CODE (level 2)	COMPONENT SUBGROUP	
CODE (level 3)	COMMON NAME	ABBREVIATION
<i>not in use</i>	01 Component group	
<i>not in use</i>	02 Component subgroup	
03 Component code	04 Component common name	05 Component abbreviation

EXAMPLE: Zone Valve [LSV]

<i>not in use</i>	PIPE ACCESSORIES	
<i>not in use</i>	VALVES - PRESETTABLE	
T-LVI-03-01-001	Zone Valve	LSV

EXAMPLE IN TABULAR FORM

PROPERTY SET
FI_Component

PROPERTY	VALUE
01 Component group	PIPE ACCESSORIES
02 Component subgroup	VALVES - PRESETTABLE
03 Component code	T-LVI-03-01-001
04 Component common name	Zone Valve
05 Component abbreviation	LSV

You only need to include the codes
CODE (level 3).
Other levels of the code can be deduced from the
beginning of the code.