

## Uponor Revit Library Instruction

**Presented library includes items from entire European Uponor Portfolio. Before using family please check your local Uponor catalogue and make sure that used product is available on your market.**

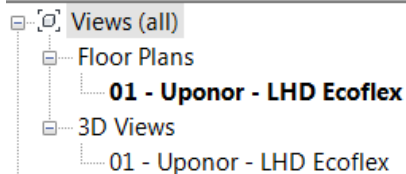
### 1. Open one of the files you are interested in:

- “REVIT v7 - Uponor - MLC”
- “REVIT v7 - Uponor - PEX”
- “REVIT v7 - Uponor - LHD Ecoflex”
- “REVIT v7 - Uponor - RHC Radiant Heating Cooling”
- “REVIT v7 – Uponor – Sewage Decibel”
- “REVIT v1 – Uponor – Ports”
- “REVIT v1 – Kamo – Ports”

### 2. On the left side in Project Browser you can find Views as follow:

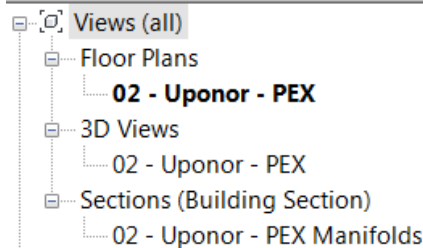
- **01 LHD** (Local Heat Distribution) – Floor Plan
- **01 LHD** (Local Heat Distribution) – 3D View

Project Browser - REVIT 2017 v3 - Uponor - LHD Ecoflex



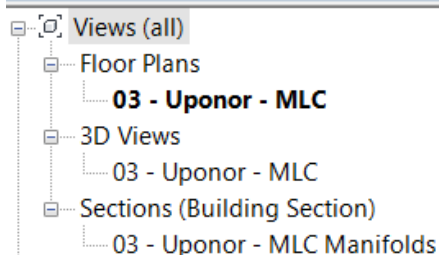
- **02 PEX** (Flexible Pipe Systems) – Floor Plan
- **02 PEX** (Flexible Pipe Systems) – 3D View
- **02 PEX** (Flexible Pipe Systems) – Section with manifolds wall

Project Browser - REVIT 2017 v3 - Uponor - PEX



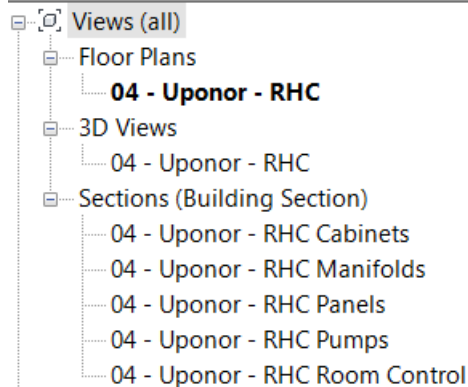
- **03 MLC** (Multilayer Pipe Systems) – Floor Plan
- **03 MLC** (Multilayer Pipe Systems) – 3D View
- **03 MLC** (Multilayer Pipe Systems) – Section with manifolds wall

Project Browser - REVIT 2017 v3 - Uponor - MLC



- **04 RHC** (Radiant Heating & Cooling Systems) – Floor Plan
- **04 RHC** (Radiant Heating & Cooling Systems) – 3D View
- **04 RHC Manifolds** (Radiant Heating & Cooling Systems) – Section with manifolds
- **04 RHC Cabinets** (Radiant Heating & Cooling Systems) – Section with cabinets
- **04 RHC Pumps** (Radiant Heating & Cooling Systems) – Section with pumps
- **04 RHC Panels** (Radiant Heating & Cooling Systems) – Section with Panels
- **04 RHC Room Control** (Radiant Heating & Cooling Systems) – Section with Automation

Project Browser - REVIT 2017 v3 - Uponor - RHC Radiant Heating Cooling



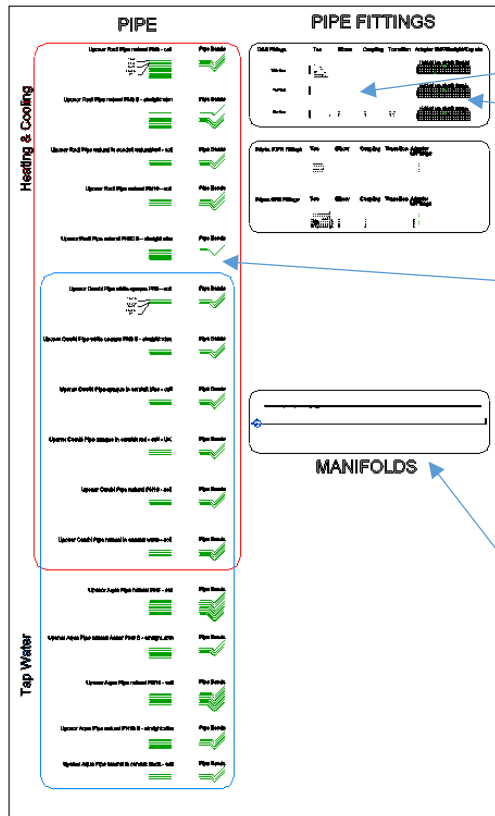
### 3. Open the view.

Find product which you are interested in, then copy and paste it into your project file.

### 4. See below examples of views mentioned in chapt.2.

Floor Plan:

# PEX



## PIPE FITTINGS

Common Fittings (copied with with pipe)

Special fittings in Box (thread transitions etc.) – has to be copied into your project individually one by one

## PIPE

In red zone pipe for “Heating and Cooling”  
In blue zone pipes for “Tap Water”

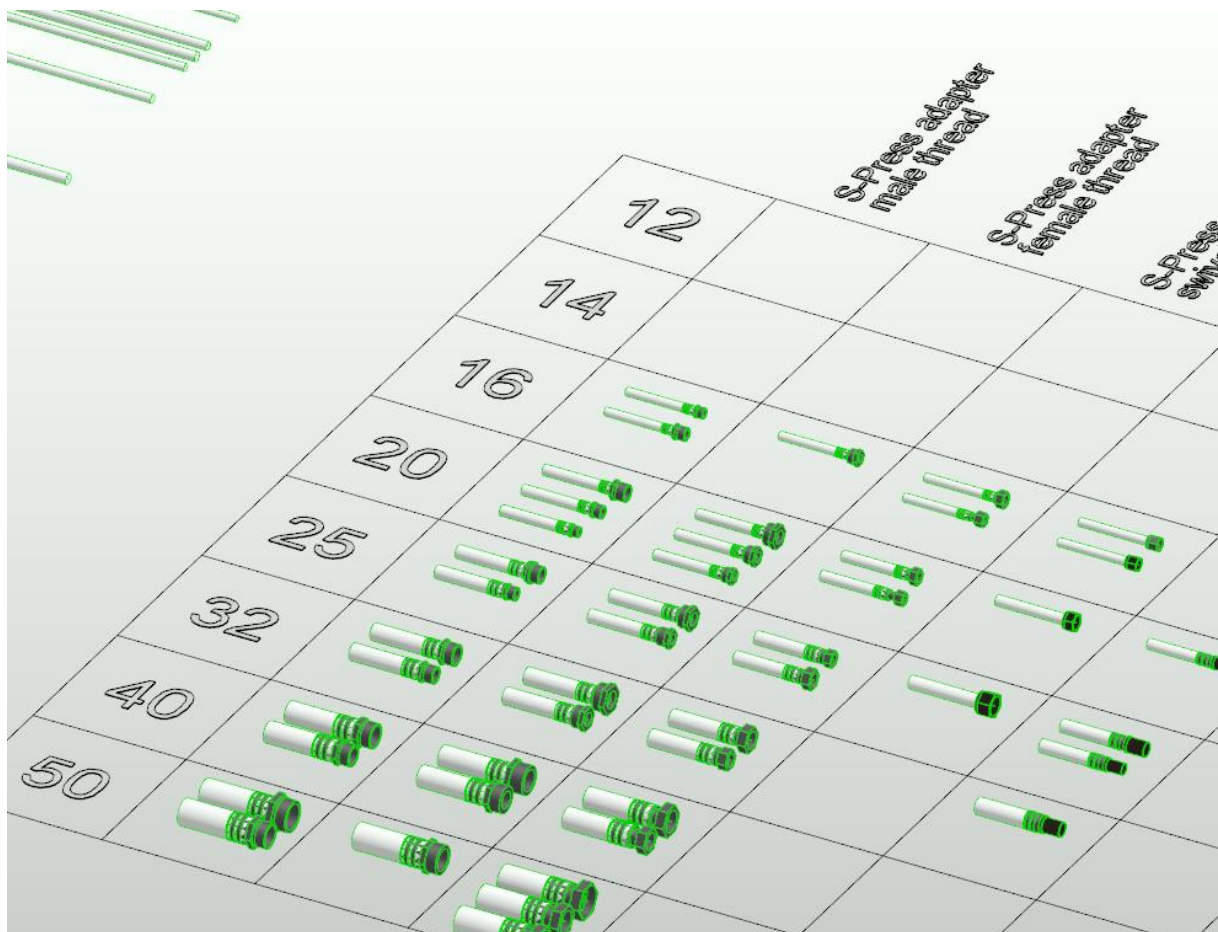
Benefit is that if you copy pipe into your project it will be copied with routing solutions (pipe fittings – elbows, tees, transitions, couplings).

Manifolds and special fittings has to be copied individually

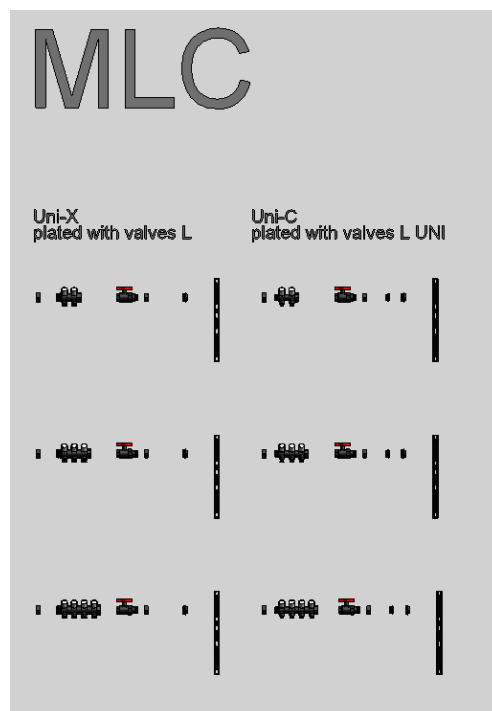
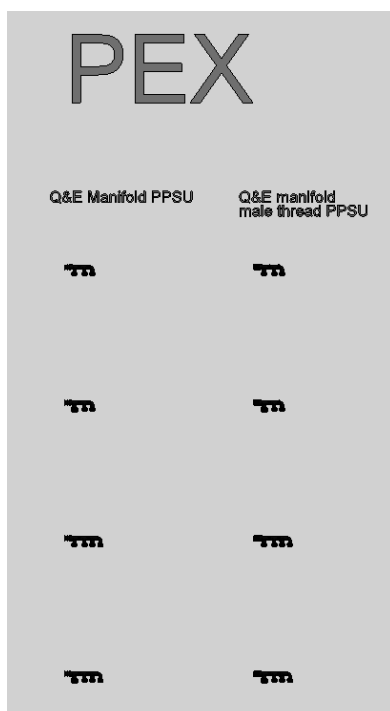
## MANIFOLDS

Has to be copied to project individually one by one.

3D View:



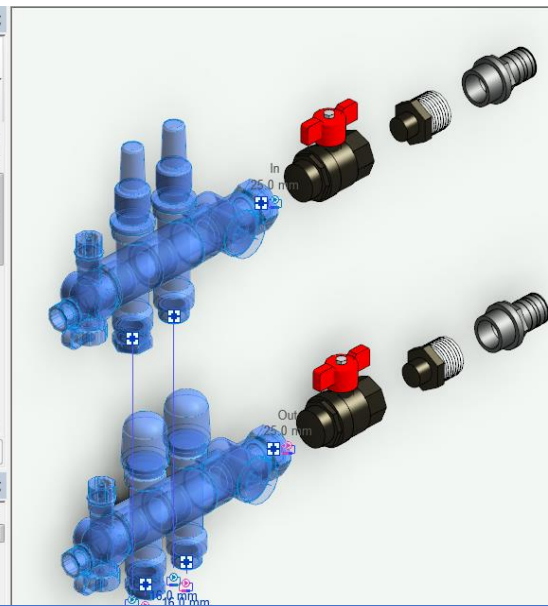
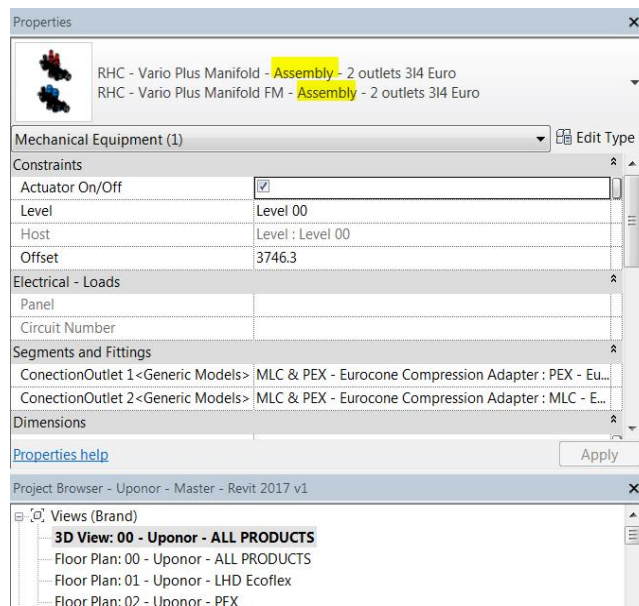
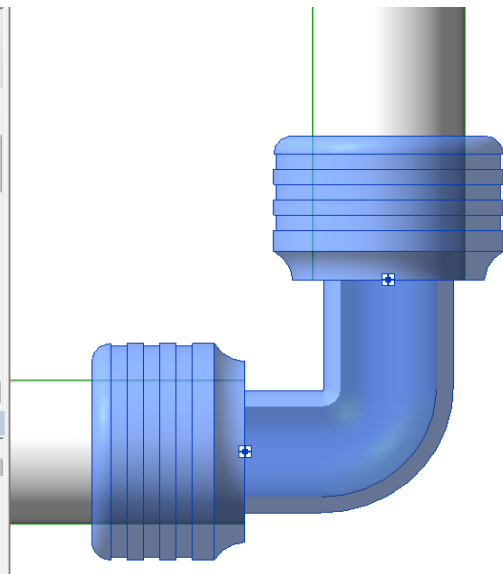
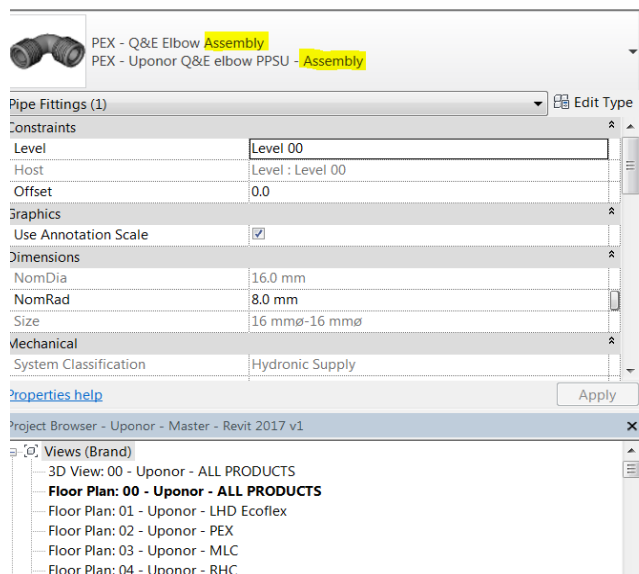
Wall with manifolds:



## IN CASE OF CHOOSING:

Q&E FITTINGS  
WIPEX FITTINGS  
RS FITTINGS  
MANIFOLDS

**IS VERY IMPORTANT TO USE FAMILIES WITH SUFFIX  
“ASSEMBLY”!!!!**



## 5. If you cannot find product, use Schedule and write/copy product part number from catalogue.

How to make it step by step:

a) Go to Catalogue -> Find Part Number of product

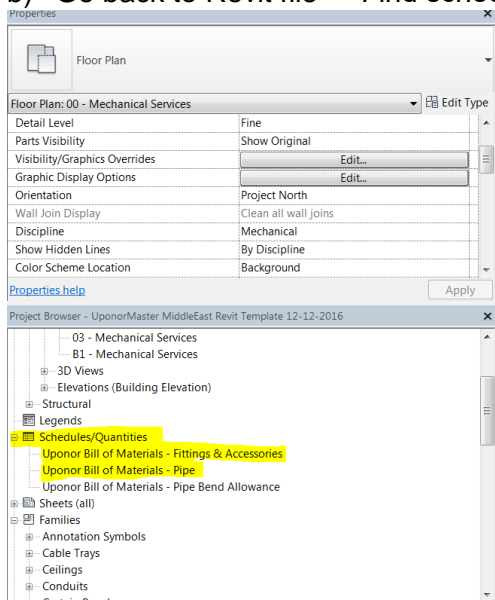
### Uponor Aqua Pipe natural PN6

| PE-Xa | 6 bar | tap water | coil |

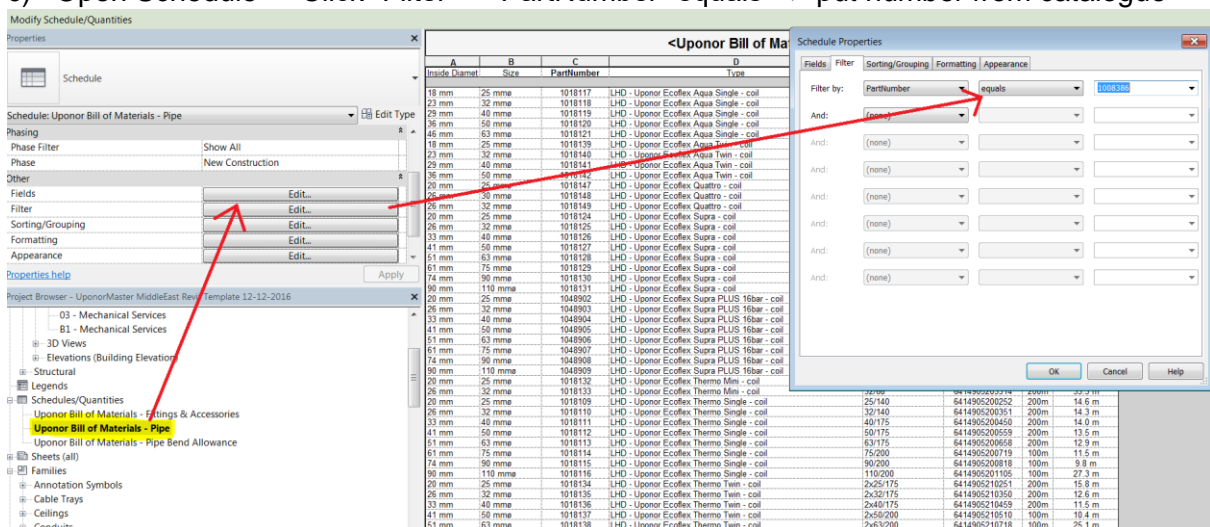


Item no.	d mm	s mm	p bar	L m	colour	uPoints	Description	unit 2	unit	Owner
<b>1008386</b>	16	2.0	6	100	natural	500	Uponor Aqua Pipe natural PN6 16x2.0 100m	1100	100 m	<b>05</b>
<b>1008408</b>	20	2.0	6	100	natural	650	Uponor Aqua Pipe natural PN6 20x2.0 100m	700	100 m	<b>05</b>
<b>1017870</b>	25	2.3	6	100	natural	1100	Uponor Aqua Pipe natural PN6 25x2.3 100m	500	100 m	<b>05</b>
<b>1048757</b>	32	2.9	6	50	natural	400	Uponor Aqua Pipe natural PN6 32x2.9 50m	550	50 m	<b>05</b>

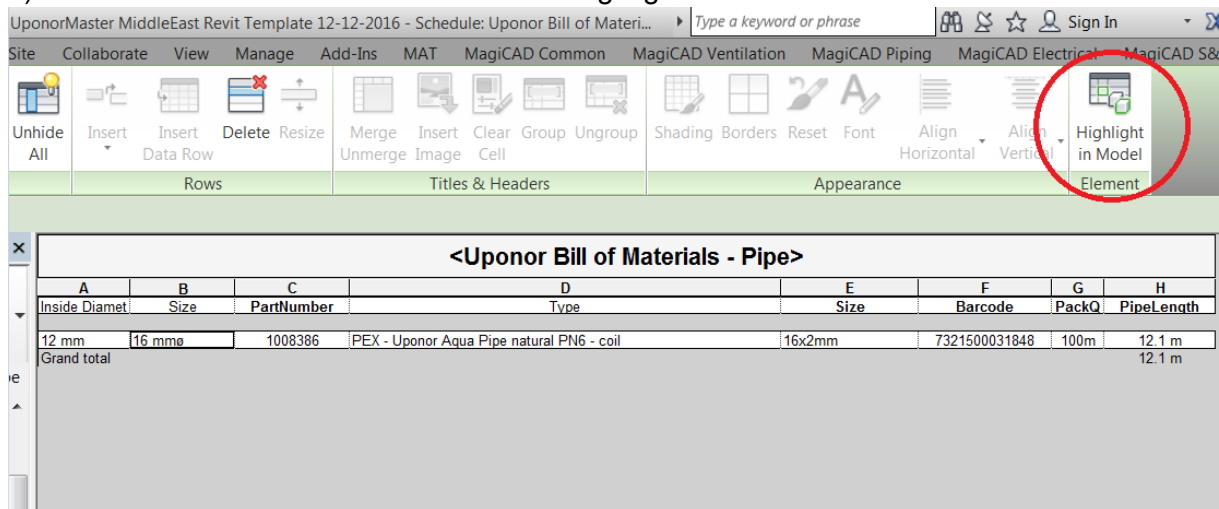
b) Go back to Revit file -> Find schedule “Pipe” or “Fittings”, depends on what you are looking for.



c) Open Schedule -> Click “Filter” -> PartNumber “equals” -> put number from catalogue



d) Click on element in schedule and then “Highlight in model”

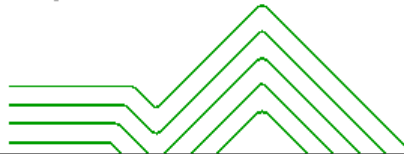


e) Click Close. **Now you have highlighted element which you are looking for. You can copy it into your project.**

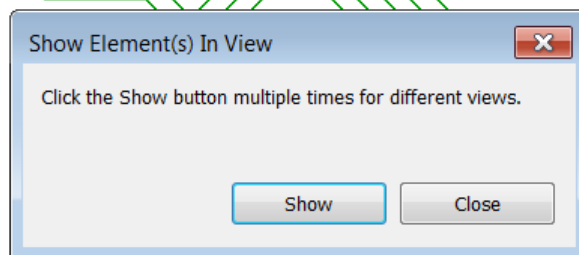
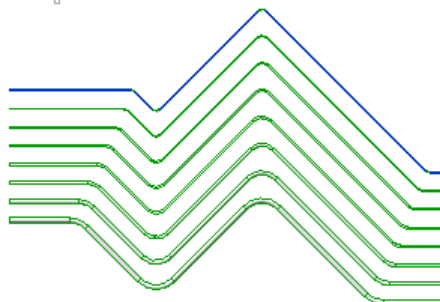
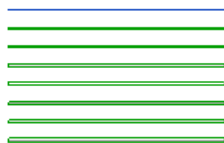
PE PLUS - coil



Pipe Bends



PEX - coil

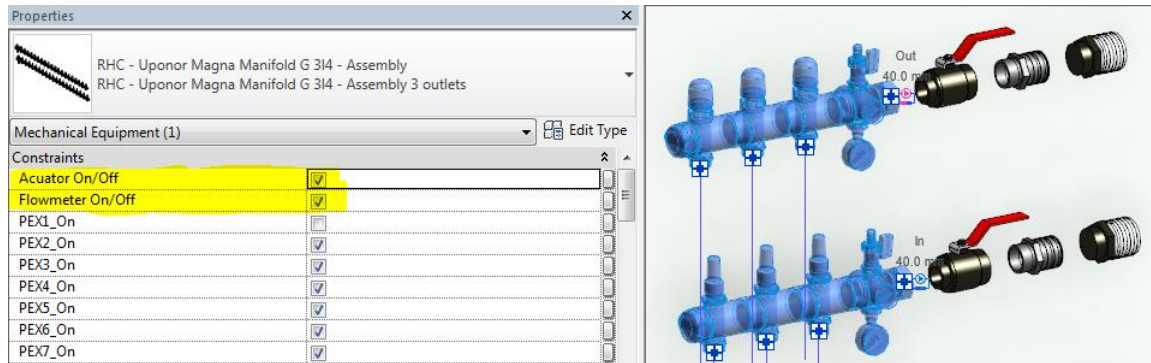




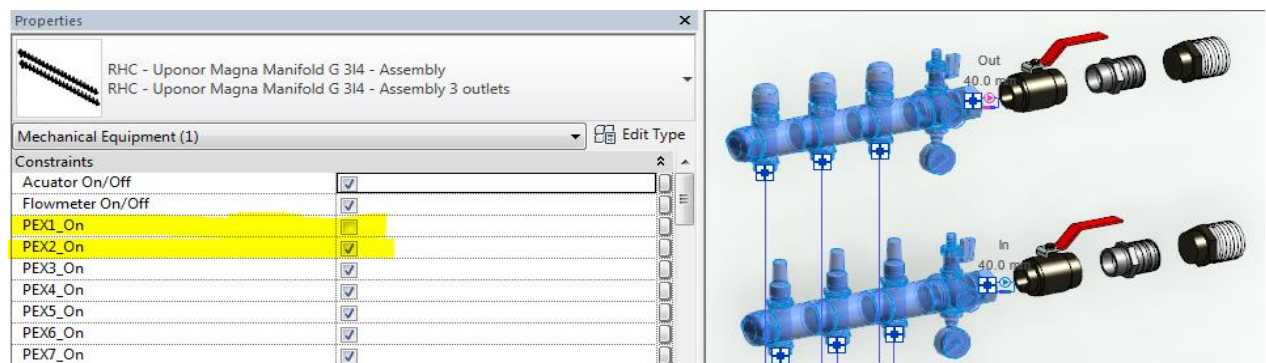
## 6. Additional instructions for manifolds and pumps

All manifolds dedicated to Radiant Heating and Cooling have possibilities to:

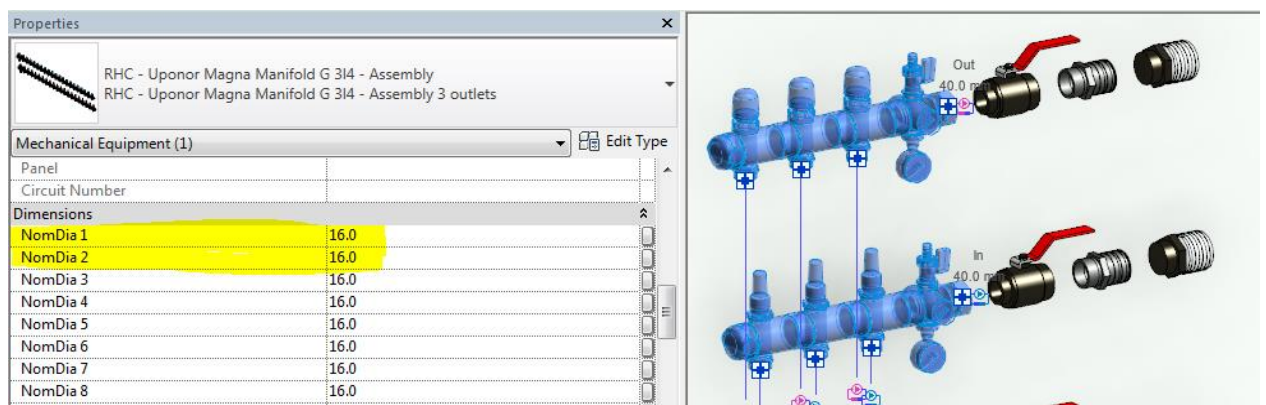
- Switch off/on actuators and flowmeters



- Choose the pipe type connection for individual outlets from manifolds by clicking tick “PEX\_On” for PEX and deselecting for MLC. Number after “PEX” is the outlet no. – in way from main connection to cap end.



- Type pipe diameter of outlets (for PEX – 12, 14, 16, 17 or 20; for MLC – 14, 16 or 20). **CAUTION!!! First, you need to click PEX\_On tick, before you type 12 or 17.**





On wall near manifolds you can find also dedicated valves and adapters which allow to do main connection to manifold using PEX or MLC pipe:



In View “Section: Manifolds” you can find also pump groups. Pump are prepared for connection direct on manifold. Please just choose right type of pump:

Properties

RHC - Fluvia Move pumpgroup MPG-10-A-W  
RHC - Uponor Fluvia Move pumpgroup MPG-10-A-W - **Smart S**

Mechanical Equipment (1) Edit Type

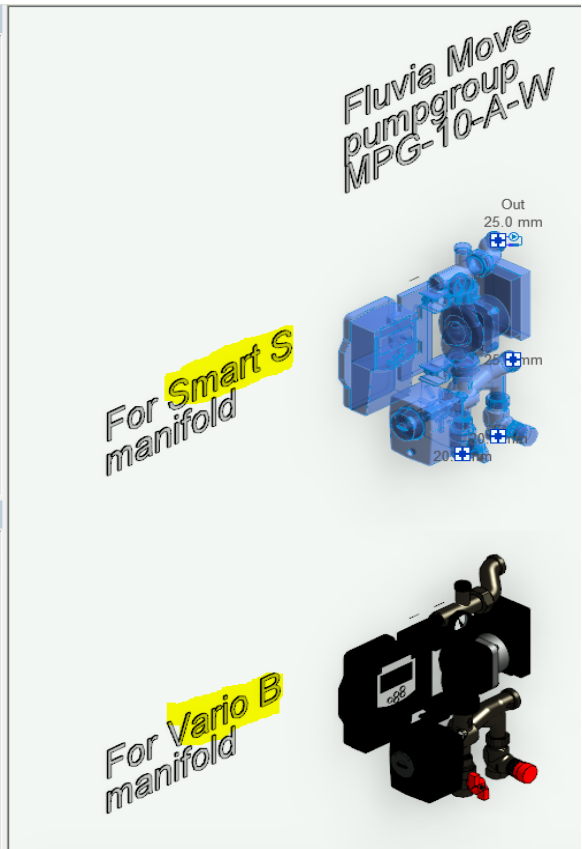
Mechanical

System Classification	Undefined,Hydronic Supply
System Name	
Identity Data	
Image	
Comments	
Mark	776
Phasing	
Phase Created	New Construction
Phase Demolished	None
Data	
Barcode	4021598130142

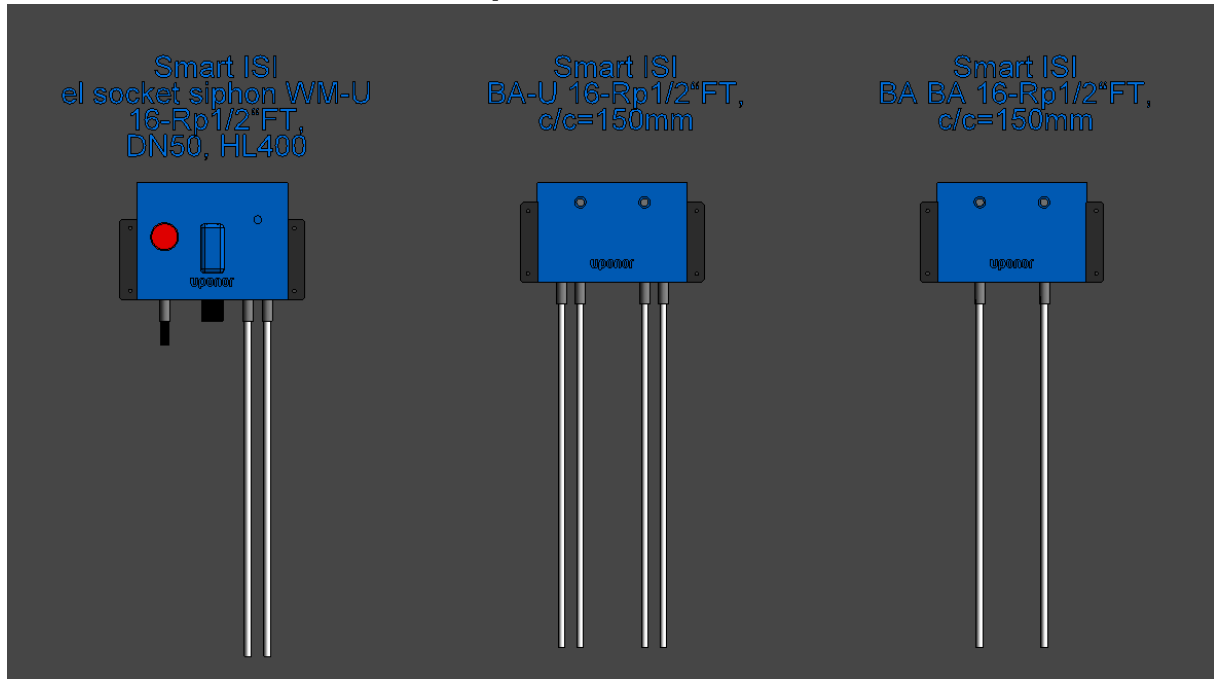
[Properties help](#) Apply

Project Browser - Uponor - Master - Revit 2017 v1

- Views (Brand)
  - 3D View: 00 - Uponor - ALL PRODUCTS**
    - Floor Plan: 00 - Uponor - ALL PRODUCTS
    - Floor Plan: 01 - Uponor - LHD Ecoflex
    - Floor Plan: 02 - Uponor - PEX
    - Floor Plan: 03 - Uponor - MLC
    - Floor Plan: 04 - Uponor - RHC
    - Section: 05 - Uponor - MANIFOLDS
- Legends
- Schedules/Quantities
  - Uponor Bill of Materials - Fittings & Accessories
  - Uponor Bill of Materials - Pipe
  - Uponor Bill of Materials - Pipe Bend Allowance
  - Uponor Parameters - Fittings & Accessories



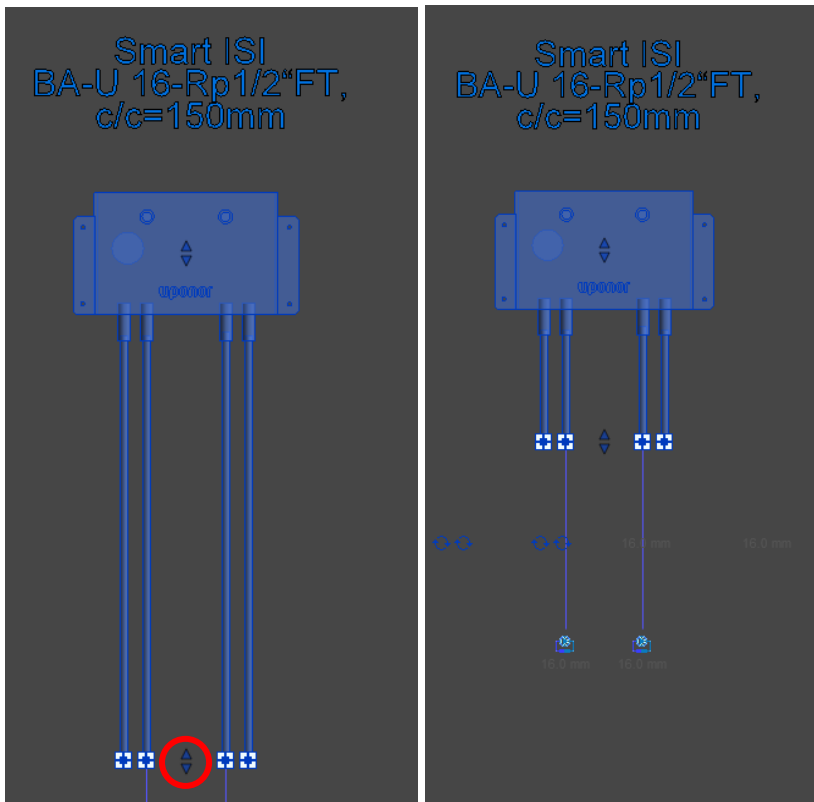
## 7. Additional instruction for Uponor Smart ISI families



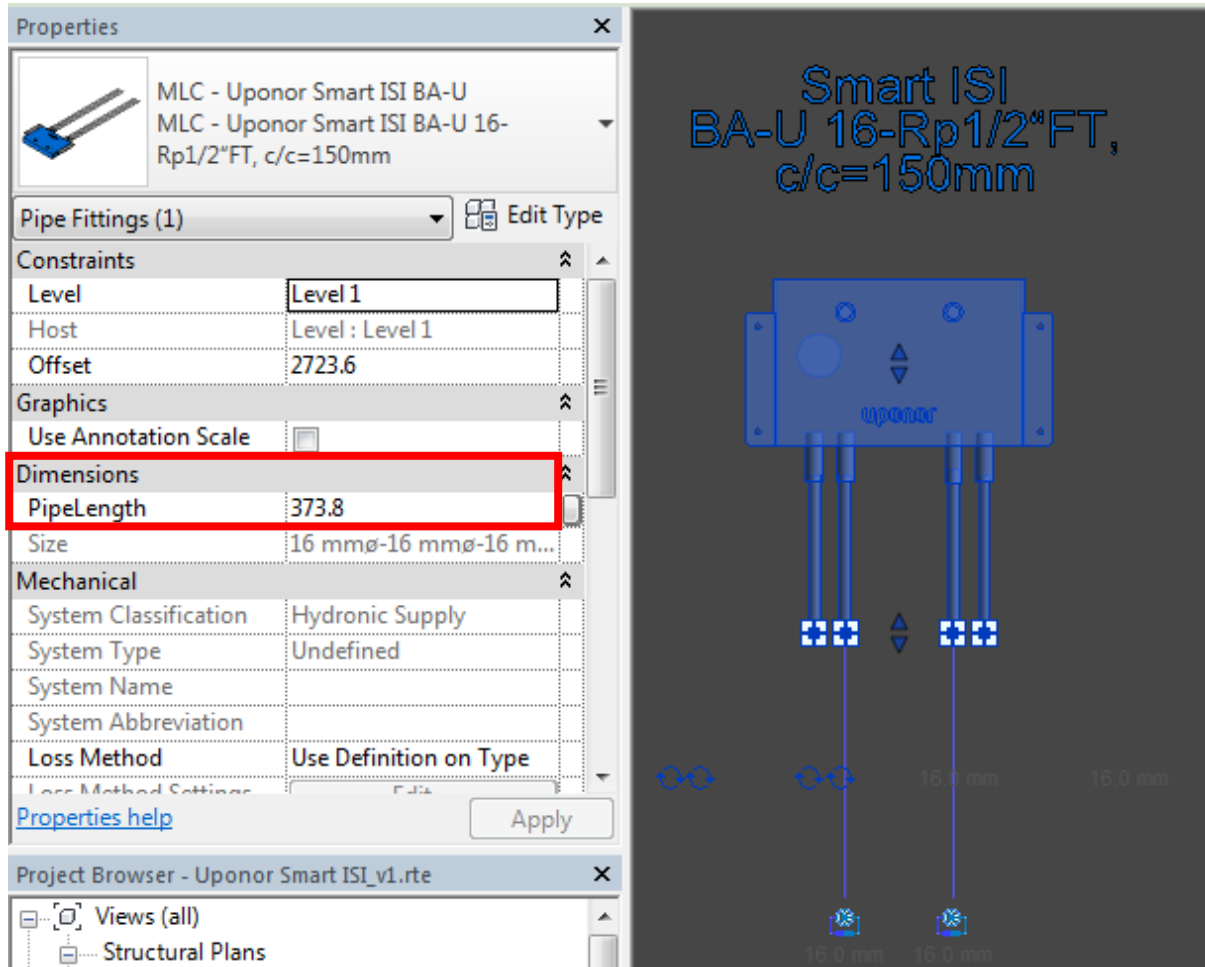
All Uponor Smart ISI families have the possibilities to:

- To shorten the length of the connecting pipes.

There are two ways to do that. Between pipes there are two small arrows which you can select and drag it to another position.



You can also change the length of pipes in the property box.



The screenshot displays the software's interface, divided into two main sections. On the left is the 'Properties' panel, and on the right is a 3D model of the installed component.

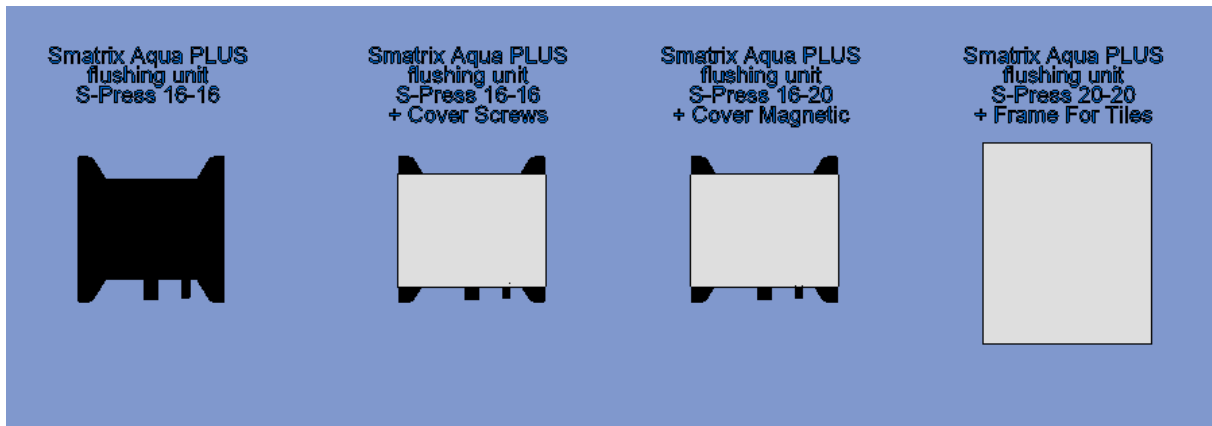
**Properties Panel:**

- Title Bar:** Properties
- Icon:** A small icon representing a pipe fitting.
- Description:** MLC - Uponor Smart ISI BA-U  
MLC - Uponor Smart ISI BA-U 16-Rp1/2"FT, c/c=150mm
- Pipe Fittings (1):** Edit Type
- Constraints:**
  - Level: Level 1
  - Host: Level : Level 1
  - Offset: 2723.6
- Graphics:**
  - Use Annotation Scale: ☐
- Dimensions:** (This section is highlighted with a red rectangle)
  - PipeLength: 373.8
  - Size: 16 mmø-16 mmø-16 m...
- Mechanical:**
  - System Classification: Hydronic Supply
  - System Type: Undefined
  - System Name:
  - System Abbreviation:
  - Loss Method: Use Definition on Type
  - Loss Method Settings: Edit
- Buttons:** Properties help, Apply
- Project Browser:** Uponor Smart ISI\_v1.rte
  - Views (all)
  - Structural Plans

**3D Model:**

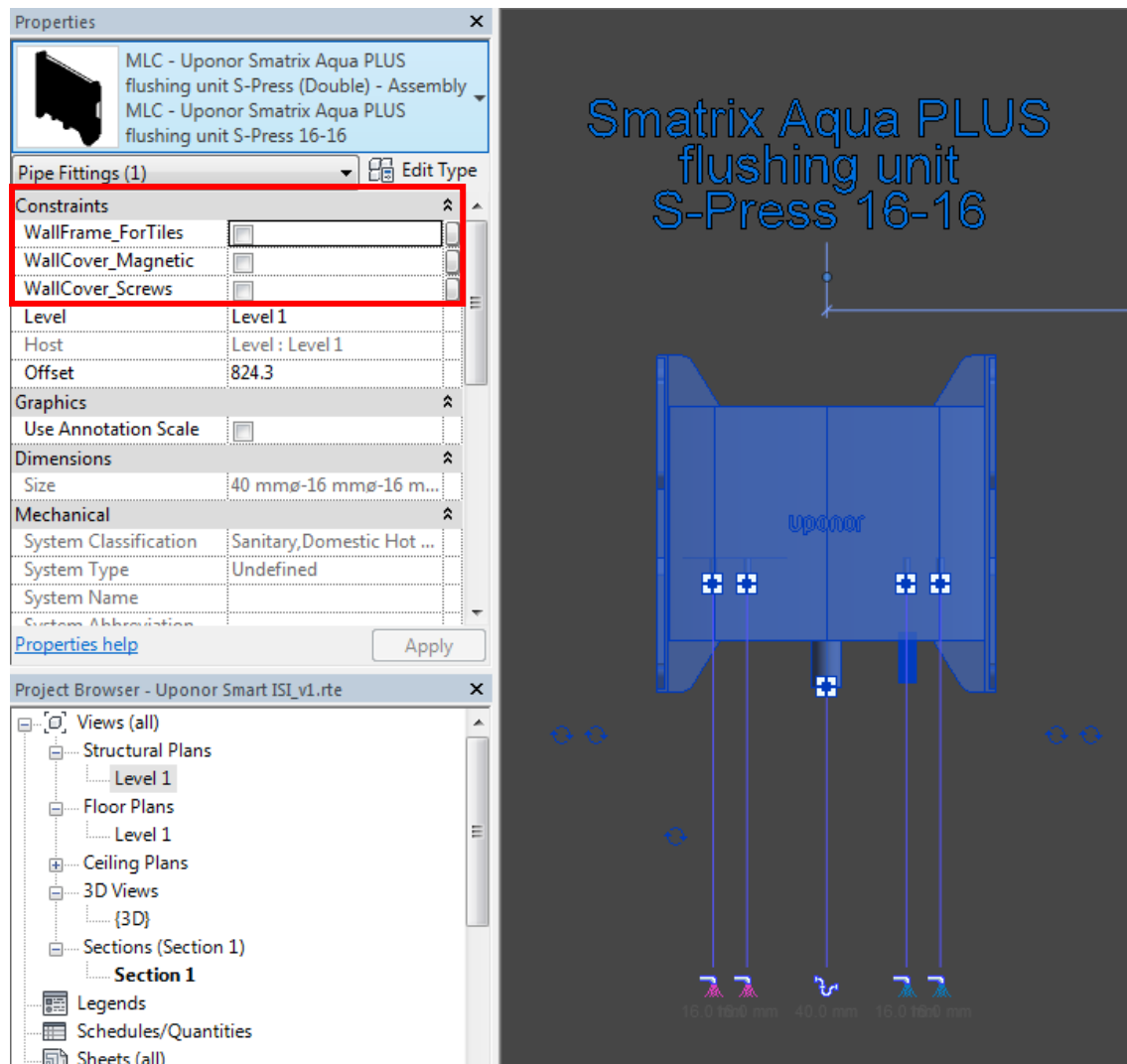
- Text:** Smart ISI BA-U 16-Rp1/2"FT, c/c=150mm
- Component:** A blue rectangular box with the 'uponor' logo, connected to four vertical pipes.
- Pipes:** Four vertical pipes, each labeled with a diameter of 16.0 mm.
- Connections:** The pipes are connected to a central unit with four ports.

## 8. Additional instruction for Uponor Aqua Plus flushing Units families



All Uponor Aqua Plus flushing Units families have the possibilities to:

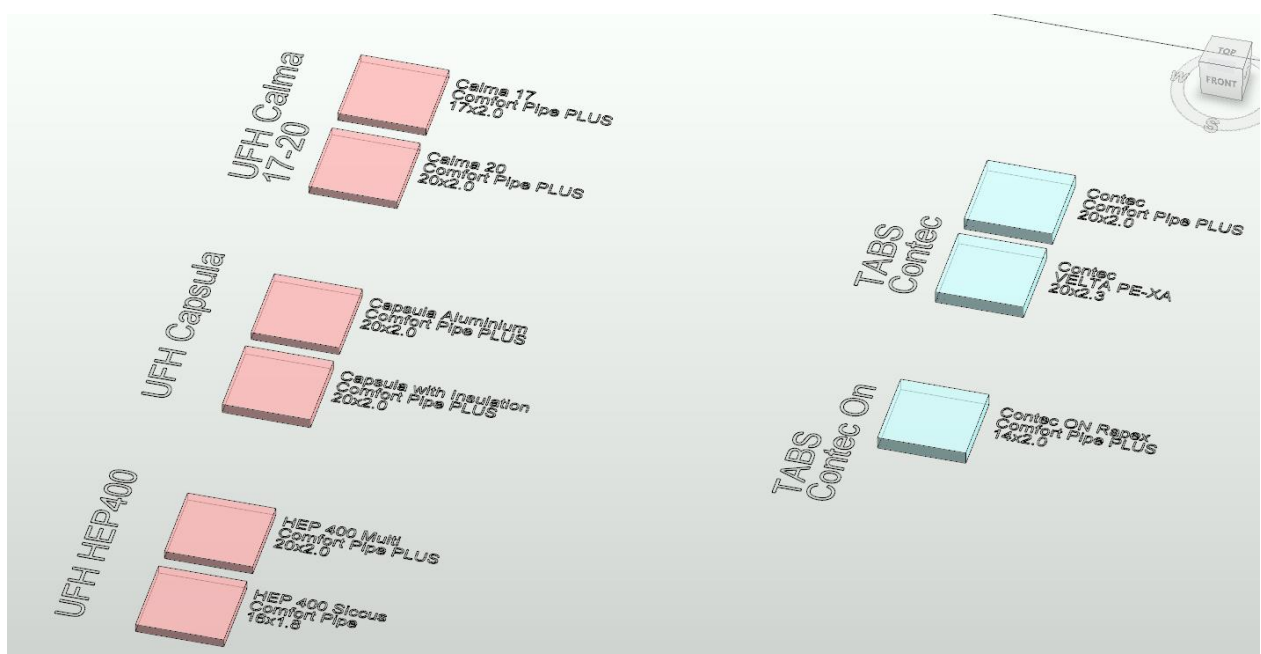
- Select/ Change the covering type:  
In the property box there are 3 parameters which are representing 3 different types of the coverings. To select the appropriate covering part please go to property box. Parameters are positioned under Constrains.



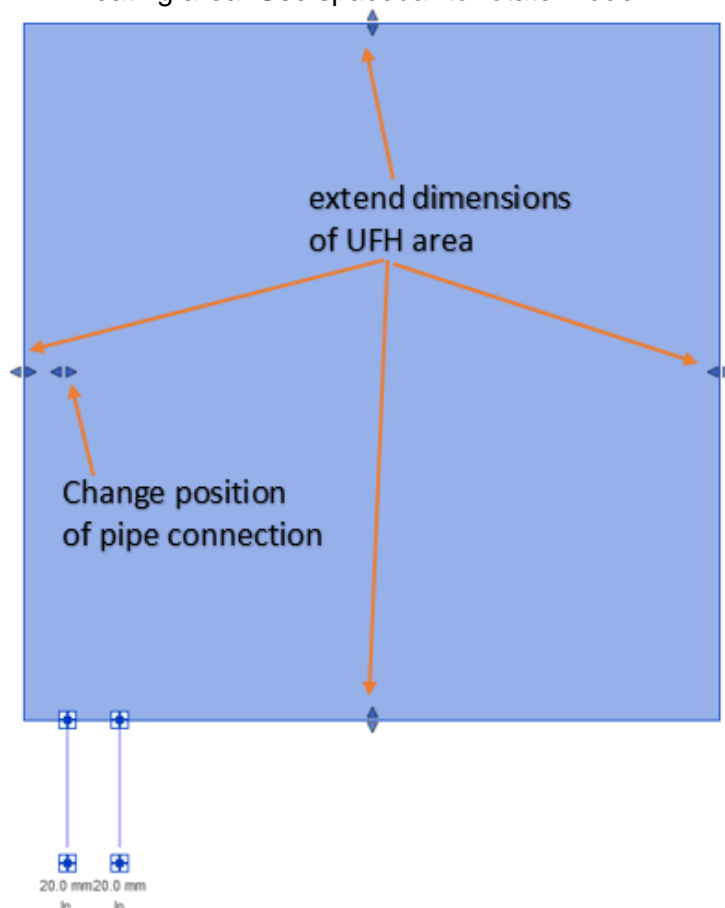
## 9. Additional instruction for Designing Blocks – UFH and TABS

Designing blocks to support quick calculation and estimation of bill materials.

- Choose system and copy rectangular to your project.  
UFH – Underfloor Heating  
TABS – Concrete Core Activation



- Use arrow to change position of pipe connection from manifold and extend underfloor heating area. Use spacebar to rotate model



- Fill in design conditions for all models placed in project:

Properties

RHC - UFH Block - Rectangular  
UFH - Classic - Comfort Pipe PLUS 20x2.0

Mechanical Equipment (1) Edit Type

Constraints

UFH_ScreedHeight	200.0
UFH_PipeSpacing	150.0
UFH_HeatingCapacity	60.00 W/m <sup>2</sup>
UFH_CoolingCapacity	25.00 W/m <sup>2</sup>
UFH_PeripheralZone	<input checked="" type="checkbox"/>
UFH_PeripheralZoneDepth	1000.0
UFH_PeripheralPipeSpacing	100.0
PipeConnectionFromSide	116.0

PipeSpacing – distance between pipes in UFH area

HeatingCapacity – heat losses / final UFH output per square meter

CoolingCapacity – cool gains / final UFH output per square meter (if system is working in cooling mode)

PeripheralZone – border zone near windows with more densely of pipe design (switch on/off)

PeripheralZoneDepth – depth of zone peripheral zone (could be change also in model using arrows)

PeripheralPipeSpacing – distance between pipes in border zone

Data

UFH_CoolingOutput	726.55 W
UFH_HeatingOutput	1743.71 W
UFH_ClipsQuantity	387.5
UFH_InsulationArea	29.062 m <sup>2</sup>
UFH_PipeLength	193.7
UFH_PipeLengthNotes	Max length of pipe crossed !
UFH_PressureLoss	0.00 Pa
UFH_SystemArea	29.062 m <sup>2</sup>
UFH_ScreedVolume	5.812 m <sup>3</sup>
UFH_WaterMassFlow	0.00 L/s

Pressure drop and Flow – if you are making hydraulic calculation directly in Revit

- Control schedules (Bill of materials). How to copy schedules in point 10.

- Uponor Bill of Materials - TABS Contec
- Uponor Bill of Materials - UFH Classic
- Uponor Bill of Materials - UFH Fix
- Uponor Bill of Materials - UFH Panels

Using schedules possible is to control of pipe length, quantity and catalogue numbers of UFH elements like system board, insulation, pipes and clips (mounting elements).

<Uponor Bill of Materials - UFH Classic>

	G	H	I	J	K
	SystemPartNumber	Area [m <sup>2</sup> ]	PipePartNumber	PipeLength [m]	UFH_PipeLengthNotes
	1063406	4 m <sup>2</sup>	1062044	27	-
	1063406	4 m <sup>2</sup>	1034535	27	-
	1063406	29 m <sup>2</sup>	1009228	194	Max length of pipe crossed !

Example of warning when the area of UFH/TABS is too big. Please decrease dimensions of UFH model.



## 10. Additional instruction for Combi Port E

### Uponor Combi Port E In wall with manifold

Application: Tap water + UFH+ optional additional Radiator Connection

Heat source:  
High temperature heat source



All standard Uponor Combi Port E families have the possibilities to:

- Turn off/on the optional additional Radiator Connection

You can turn off/on the optional additional Radiator Connection in the property box.

**Properties**

PORT - Uponor Combi Port E In-wall-UFH  
PORT - Uponor Combi E - 2 circuits

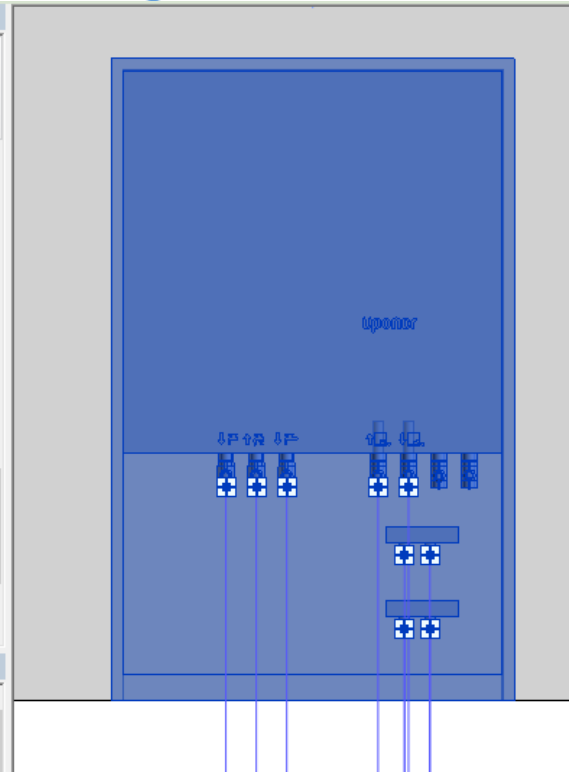
Mechanical Equipment (1) Edit Type

ValveSetting_Circuit9	0.000000
System Classification	Hydronic Return,Hydronic Supply,Domestic Col...
System Name	
<b>Identity Data</b>	
Image	
Comments	
Mark	3323
<b>Phasing</b>	
Phase Created	New Construction
Phase Demolished	None
<b>Other</b>	
Radiator Connection	<input type="checkbox"/>
Valves	2
Schedule Level	Level 00
ItemPrice	

[Properties help](#) Apply

Project Browser - UponorMaster Revit Template 02-12-2019.rte

- Views (all)
- Floor Plans
  - 00 - Uponor - ALL PRODUCTS
  - 01 - Uponor - UFH Floor...



**Properties**

PORT - Uponor Combi Port E In-wall-UFH  
PORT - Uponor Combi E - 2 circuits

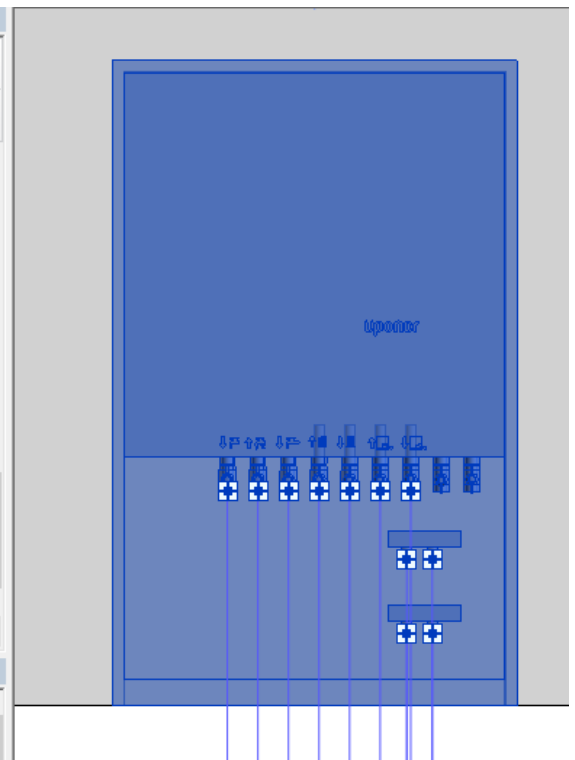
Mechanical Equipment (1) Edit Type

ValveSetting_Circuit9	0.000000
System Classification	Hydronic Return,Hydronic Supply,Hydronic Ret...
System Name	
<b>Identity Data</b>	
Image	
Comments	
Mark	3323
<b>Phasing</b>	
Phase Created	New Construction
Phase Demolished	None
<b>Other</b>	
Radiator Connection	<input checked="" type="checkbox"/>
Valves	4
Schedule Level	Level 00
ItemPrice	

[Properties help](#) Apply

Project Browser - UponorMaster Revit Template 02-12-2019.rte

- Views (all)
- Floor Plans
  - 00 - Uponor - ALL PRODUCTS
  - 01 - Uponor - UFH Floor...

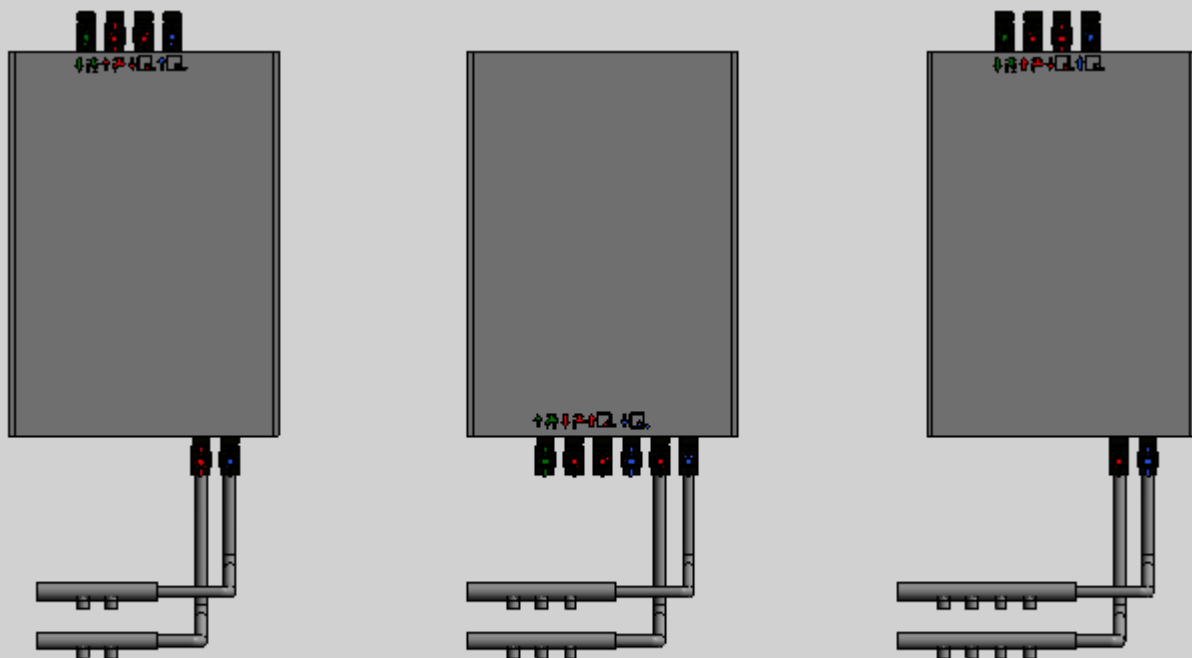


## 11. Additional instruction for Combi Port Pro XU and Combi PORT Base XU

### Uponor Combi Port BASE XU With UFH

Application: Hot water + UFH

Heat source:  
One high temperature heat source



All Uponor Combi Port Base XU and Pro XU families have the possibilities to:

- Change the position of the valves

You can turn change the position of the valves in the property box.

**Properties**

PORT -Uponor Combi Port BASE XU-with UFH  
PORT - Uponor Combi BASE XU - 2 circuits

Mechanical Equipment (1) Edit Type

ValveSetting\_Circuit9 0.000000

System Classification Domestic Cold Water,Domestic Hot Water,Hydr...

System Name

**Identity Data**

Image

Comments

Mark 3306

**Phasing**

Phase Created New Construction

Phase Demolished None

**Other**

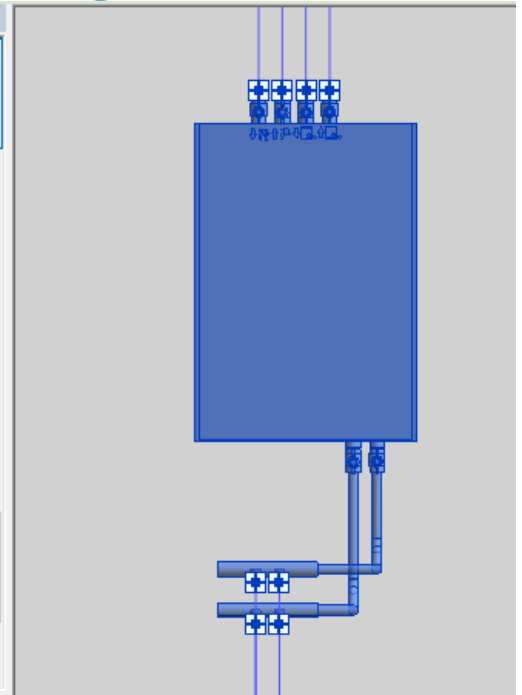
Valves\_UP ☒

Valves\_Down ☐

Schedule Level Level 00

ItemPrice

[Properties help](#) Apply



**Properties**

PORT -Uponor Combi Port BASE XU-with UFH  
PORT - Uponor Combi BASE XU - 2 circuits

Mechanical Equipment (1) Edit Type

ValveSetting\_Circuit9 0.000000

System Classification Domestic Cold Water,Domestic Hot Water,Hydr...

System Name

**Identity Data**

Image

Comments

Mark 3306

**Phasing**

Phase Created New Construction

Phase Demolished None

**Other**

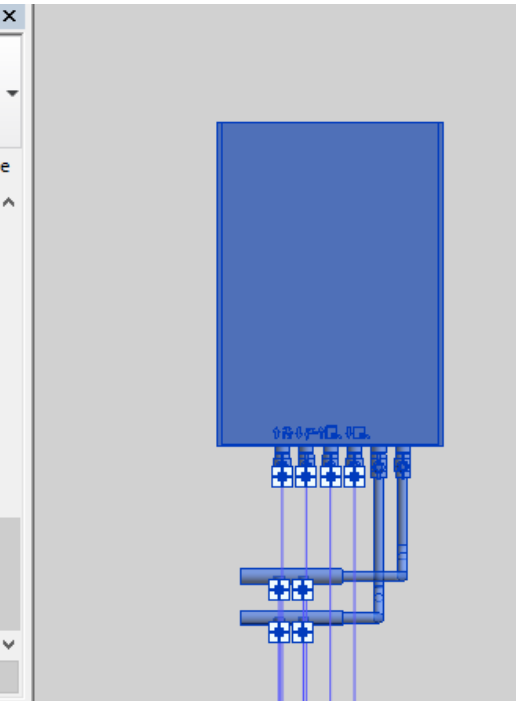
Valves\_UP ☐

Valves\_Down ☒

Schedule Level Level 00

ItemPrice

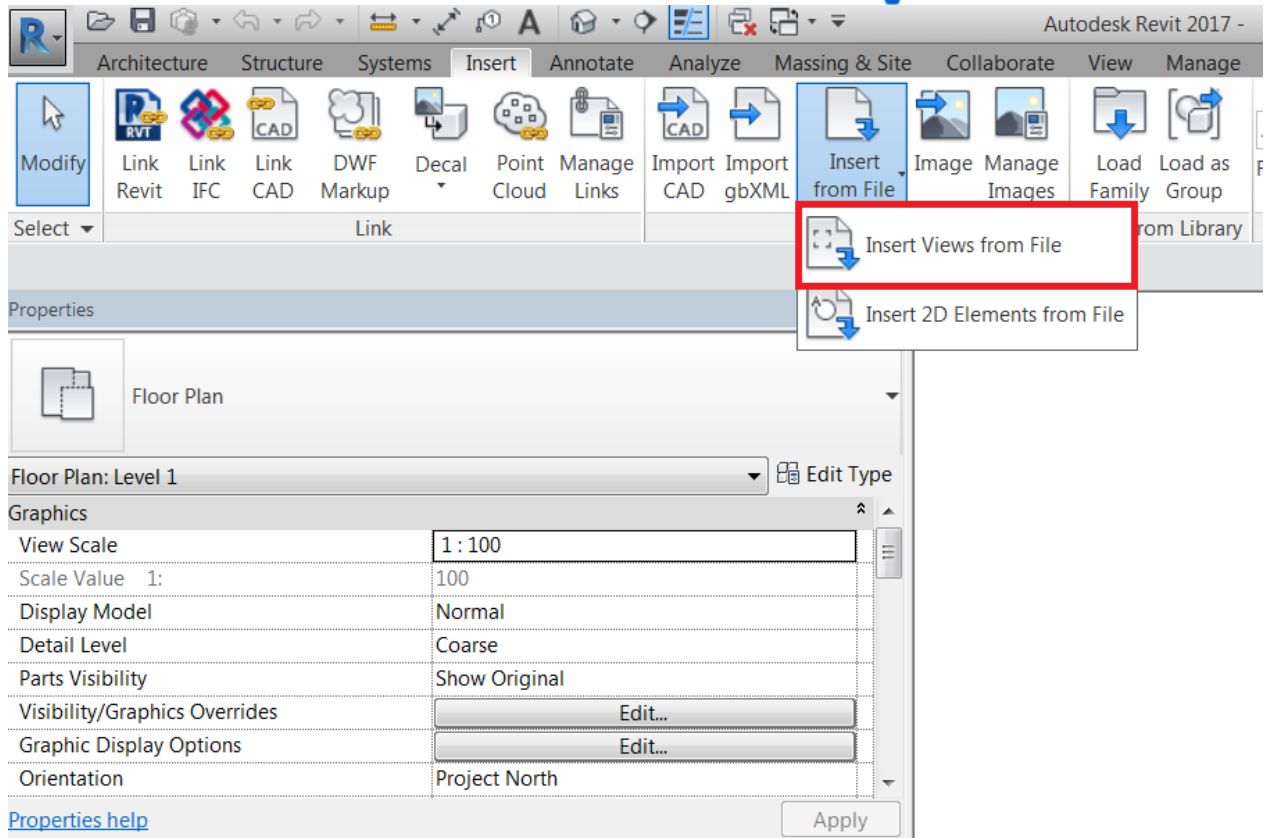
[Properties help](#) Apply



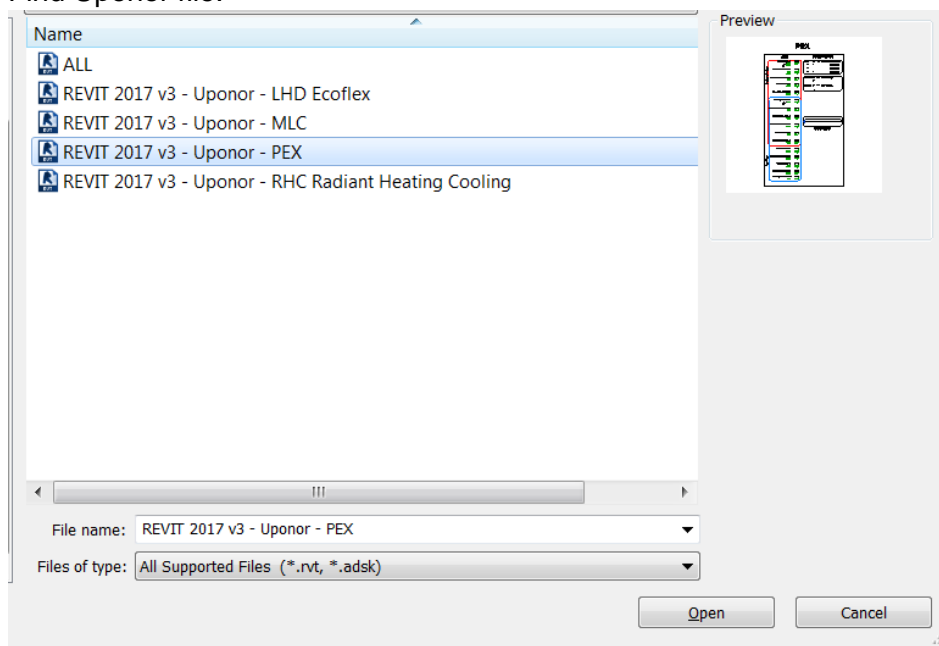
## 12. How to make a Schedule of Uponor's products

How to transfer schedules of Uponor products which allow you to control what is already designed in your projects.

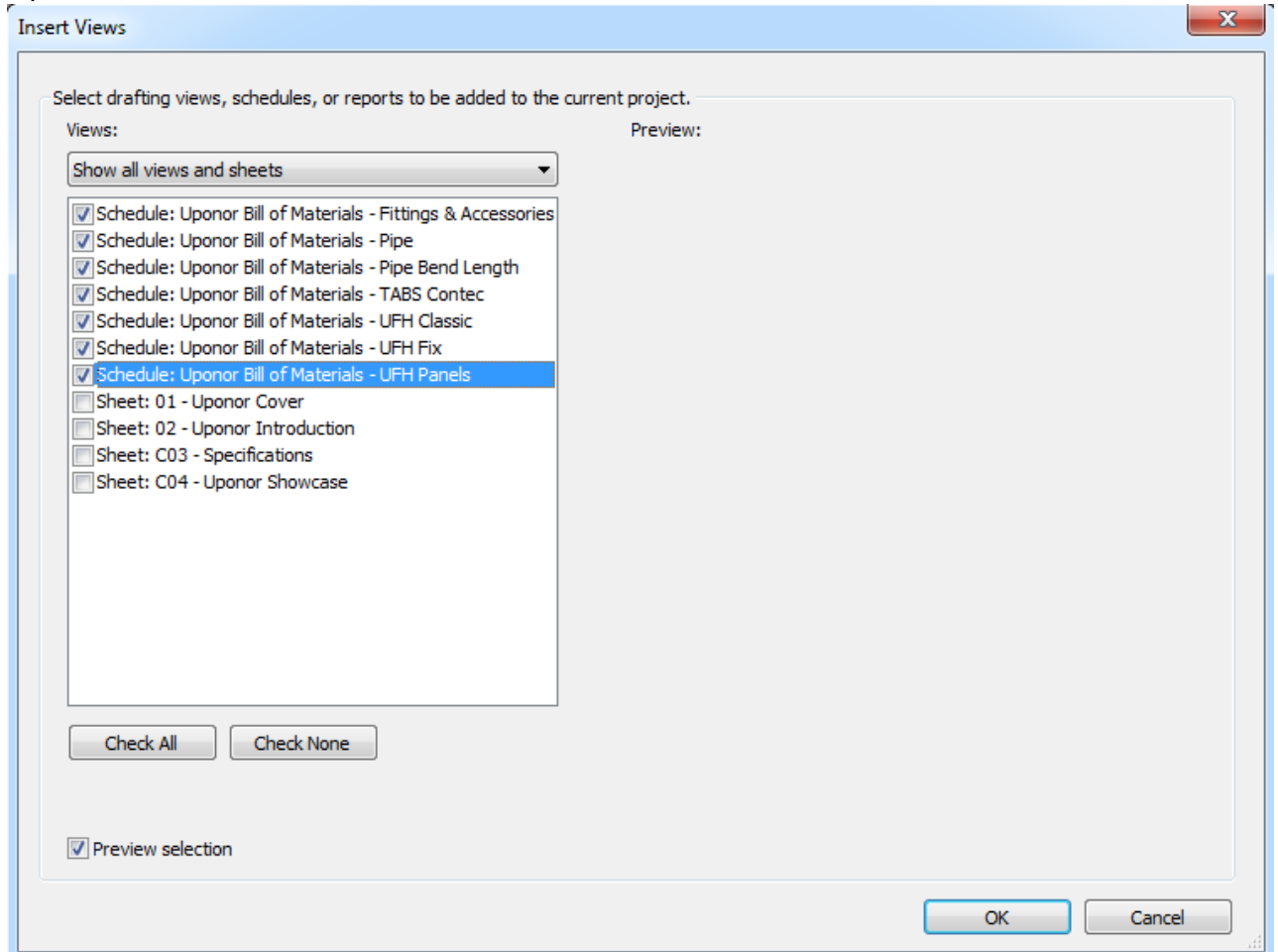
Go to your project find "INSERT RIBBON" click "Import views from file"



Find Uponor file:



Open and choose views:



On the beginning schedules are empty.  
Schedules will be constantly implemented during designing.

In case of any questions please contact:  
[bimcentre@uponor.com](mailto:bimcentre@uponor.com)