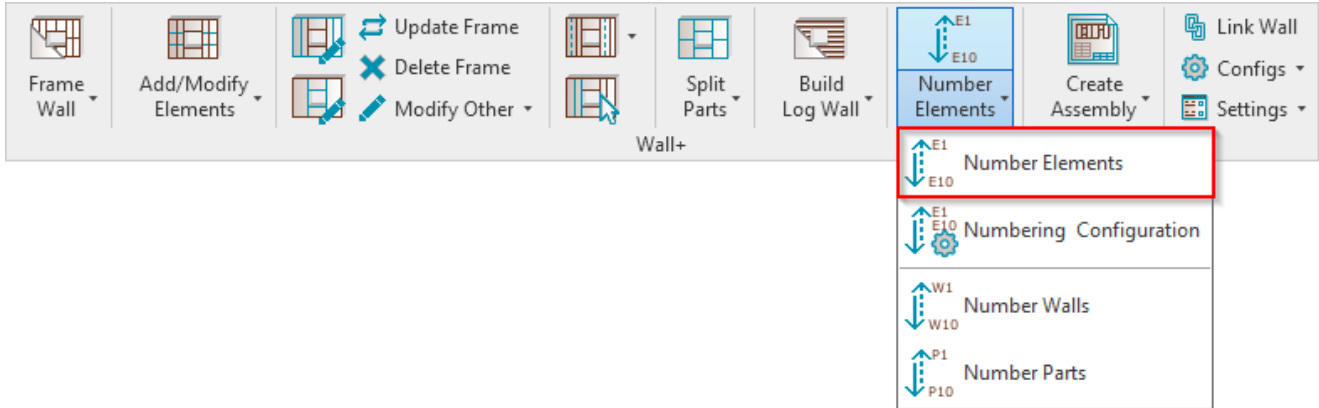


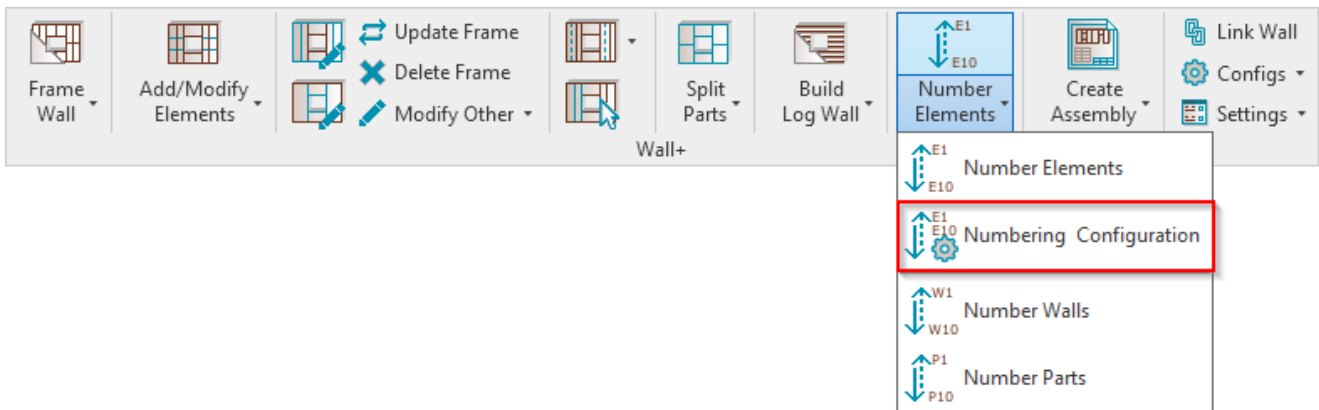
# NUMBERING

Modified on: Sat, 21 Nov, 2020 at 6:59 PM

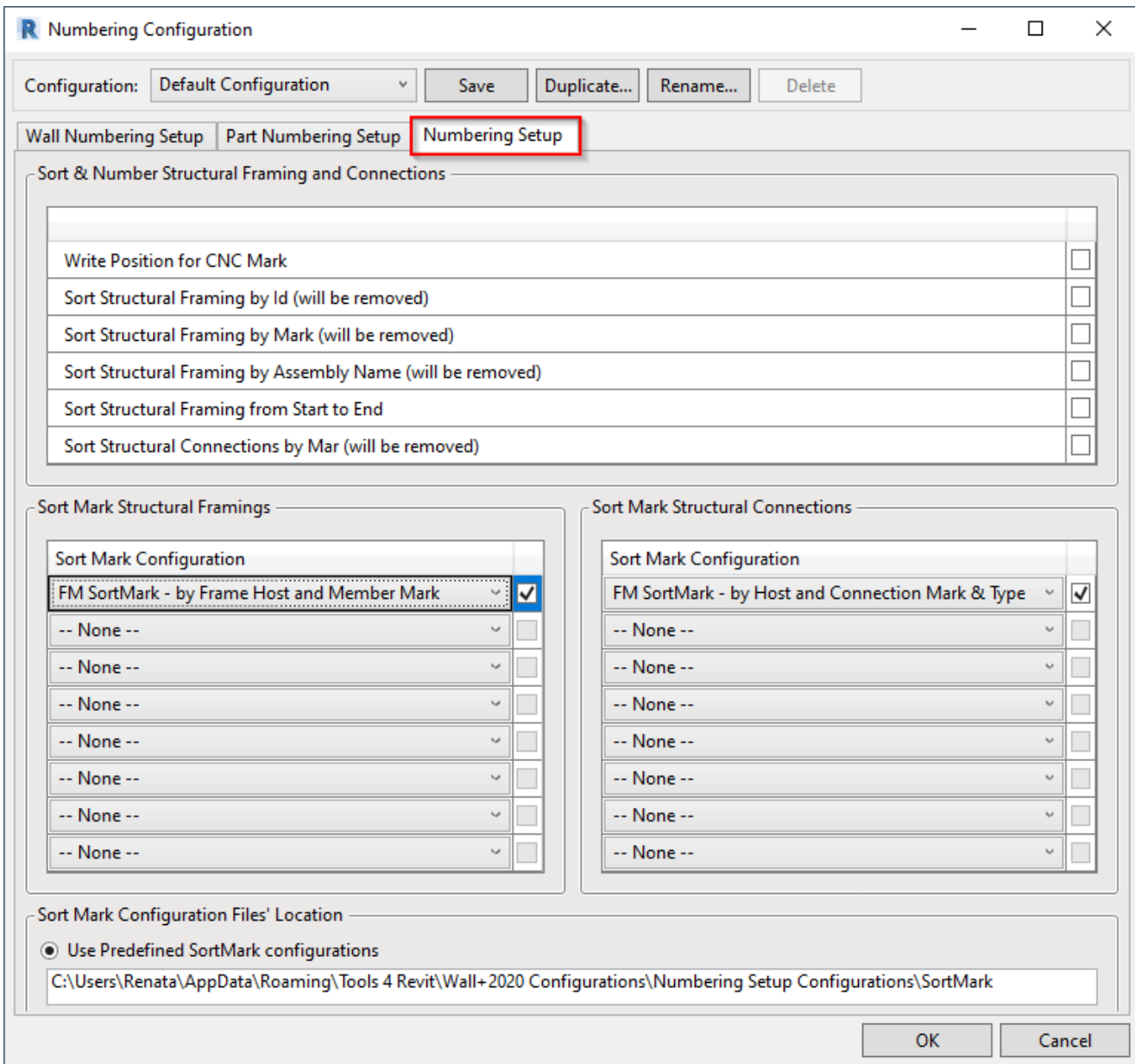
## Number Elements



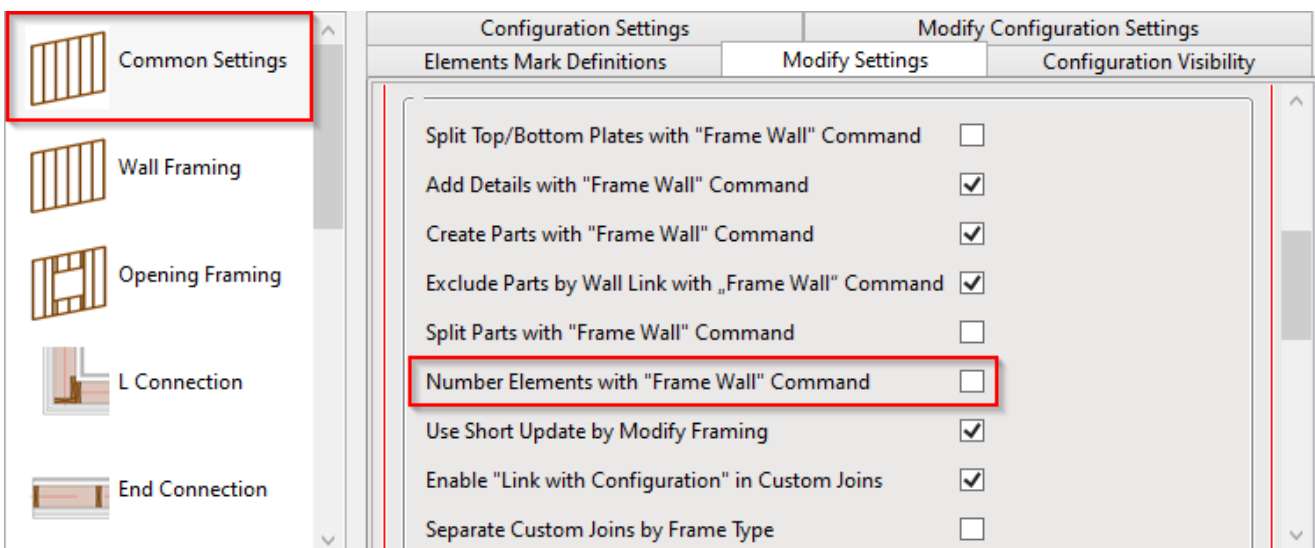
**Number Elements** – rennumbers all framing elements (under Structural Framing category) and details (under Structural Connections category) by predefined **Numbering Configuration**. It have many options for simple and complex numbering when you need to load many numbering rules.



Loads all selected rules from **Numbering Setup** tab:

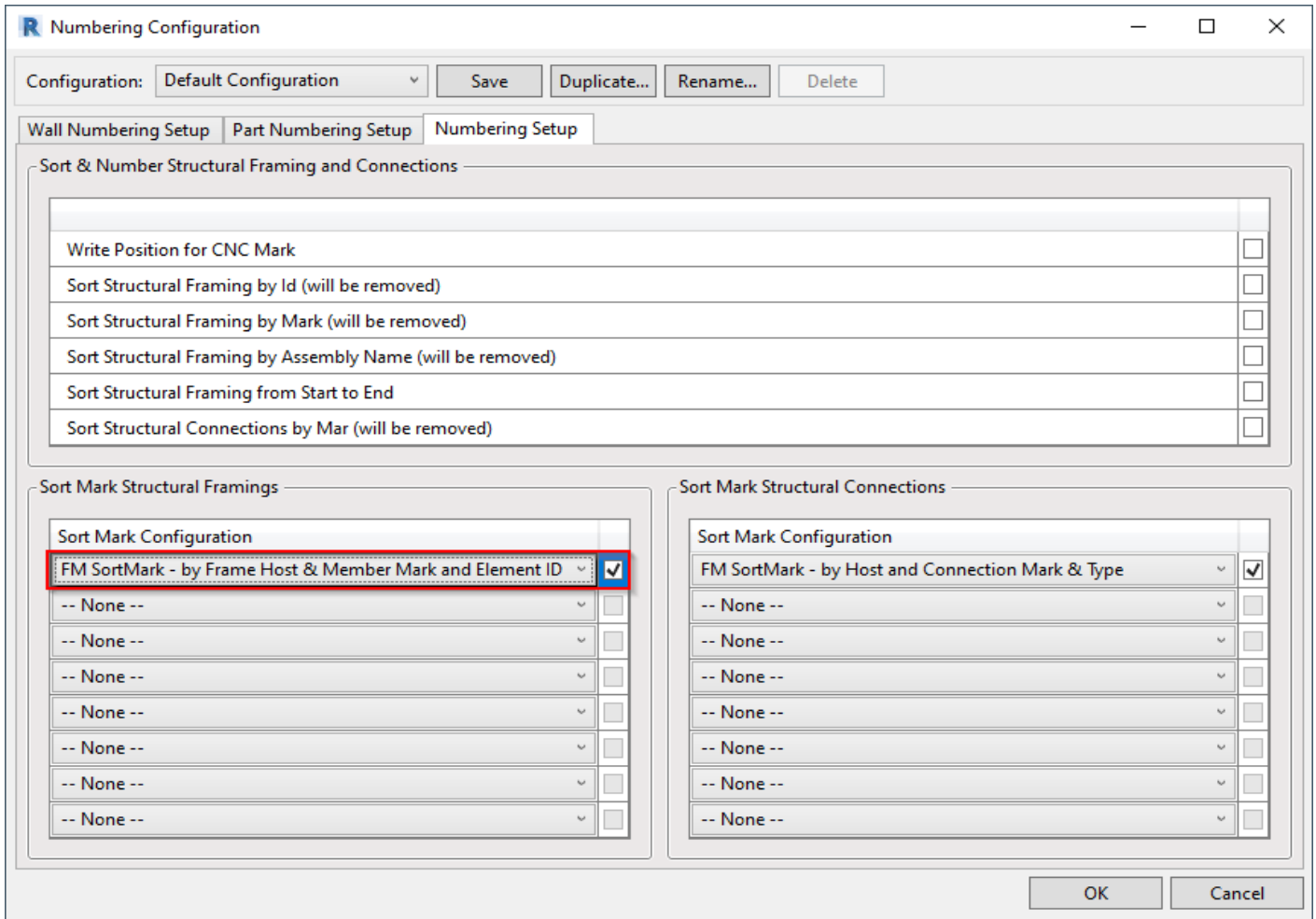


Furthermore, you can turn on **Number Elements with "Frame Wall" Command** in **Framing Configuration** → **Common Settings** → **Modify Settings**, and all elements will be numbered with **Frame Wall** command. You will not need to use **Number Elements** additionally.



[Read more about Numbering Configuration >>](https://agacad.freshdesk.com/support/solutions/articles/44001700012-numbering-numbering-configuration) (<https://agacad.freshdesk.com/support/solutions/articles/44001700012-numbering-numbering-configuration>).

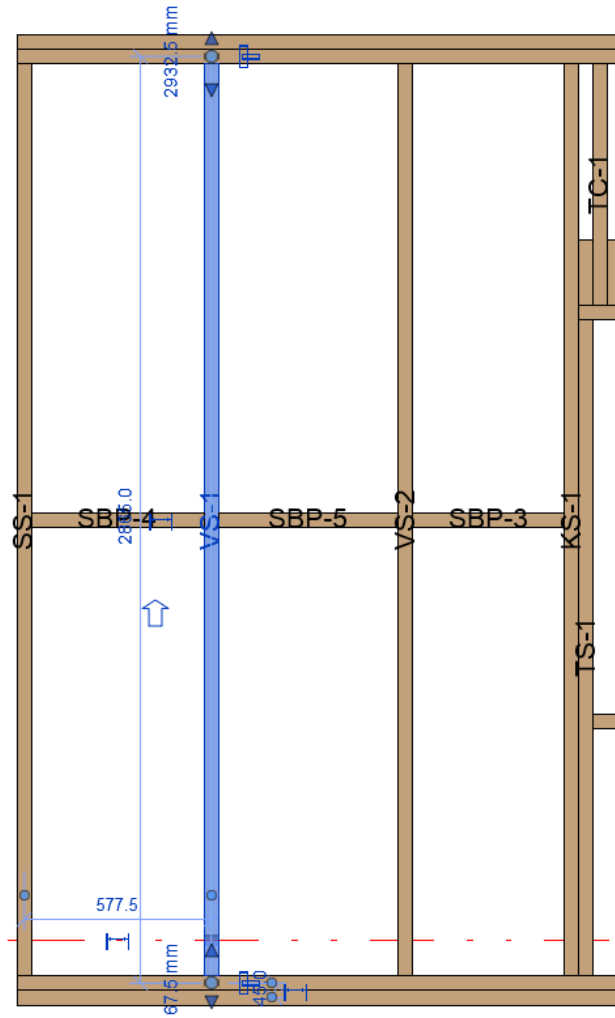
### Number Elements - Example 1



**FM SortMark - by Frame Host & Member Mark and Element ID** – a sample rule for numbering farming members. It groups framing elements by frame host and **Framing Member Mark** (comes from **Framing Configuration** → **Common Settings** → **Elements Mark Definitions**). Then every grouped element is sorted by **ID**.

**FM SortMark** – parameter with the result. You can find it in **Element Properties** → **Identity Data**.

Properties	
M_WF Stud LMBR 45x200	
Structural Framing (Other) (1) <span>Edit Type</span>	
Elevation at Bottom	Varies
Identity Data	
FM HostSortMark	
FM Number of Connectors	0.000000
Assembly Name	W-2
Image	
Comments	
Mark	
Framing Member	Stud
Framing Member Type	Stud
Framing	Wall
Framing Member Description	Stud
Framing Layer	Frame
Framing Member Mark	VS
FM HostMemberSortMark	W-2
Framing Member Volume	0.025 m <sup>3</sup>
Framing Member Cut Length	2820.0
FM Module Mark	
FM Module Type	
FM Module Preassembled	<input checked="" type="checkbox"/>
FM Wood Grade	
FM Wall Layer	Frame
FM SortMark	VS-1
Framing Member Mass	14.160 kg
CNC Part Number	
CNC Part Name	
CNC Part Position	1;1410; 3;1410



## Number Elements - Example 2

**R** Numbering Configuration

Configuration: Default Configuration Save Duplicate... Rename... Delete

Wall Numbering Setup Part Numbering Setup **Numbering Setup**

Sort & Number Structural Framing and Connections

Write Position for CNC Mark	<input type="checkbox"/>
Sort Structural Framing by Id (will be removed)	<input type="checkbox"/>
Sort Structural Framing by Mark (will be removed)	<input type="checkbox"/>
Sort Structural Framing by Assembly Name (will be removed)	<input type="checkbox"/>
Sort Structural Framing from Start to End	<input type="checkbox"/>
Sort Structural Connections by Mar (will be removed)	<input type="checkbox"/>

Sort Mark Structural Framings

Sort Mark Configuration		
FM SortMark - by Frame Host and Member Mark	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-- None --	<input type="checkbox"/>	<input type="checkbox"/>
-- None --	<input type="checkbox"/>	<input type="checkbox"/>
-- None --	<input type="checkbox"/>	<input type="checkbox"/>
-- None --	<input type="checkbox"/>	<input type="checkbox"/>
-- None --	<input type="checkbox"/>	<input type="checkbox"/>
-- None --	<input type="checkbox"/>	<input type="checkbox"/>
-- None --	<input type="checkbox"/>	<input type="checkbox"/>

Sort Mark Structural Connections

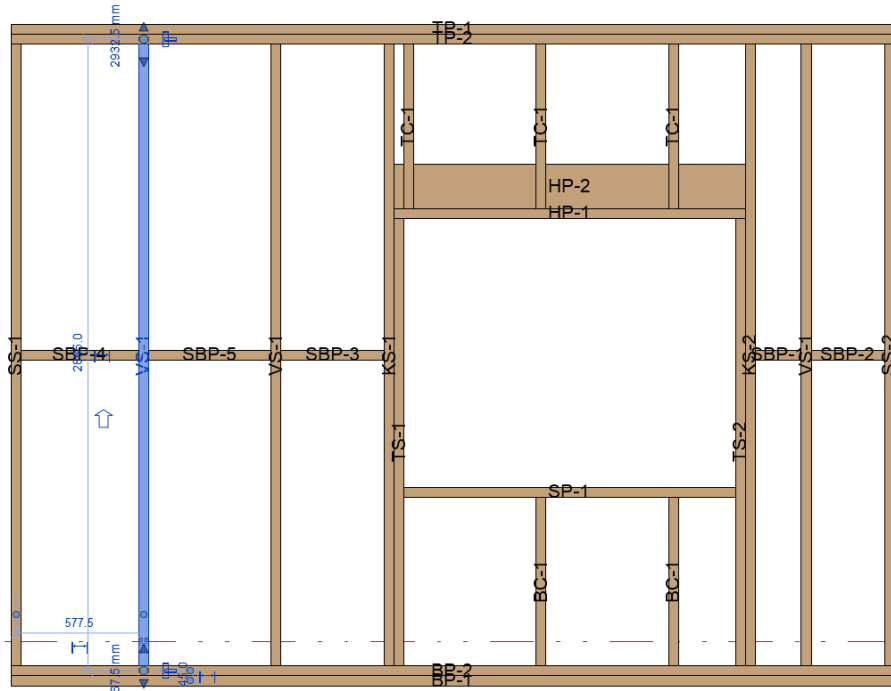
Sort Mark Configuration		
FM SortMark - by Host and Connection Mark & Type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-- None --	<input type="checkbox"/>	<input type="checkbox"/>
-- None --	<input type="checkbox"/>	<input type="checkbox"/>
-- None --	<input type="checkbox"/>	<input type="checkbox"/>
-- None --	<input type="checkbox"/>	<input type="checkbox"/>
-- None --	<input type="checkbox"/>	<input type="checkbox"/>
-- None --	<input type="checkbox"/>	<input type="checkbox"/>
-- None --	<input type="checkbox"/>	<input type="checkbox"/>

OK Cancel

**FM SortMark - by Frame Host and Member Mark** – a sample rule for numbering farming members. It groups framing elements by frame host and **Framing Member Mark** (comes from **Framing Configuration** → **Common Settings** → **Elements Mark Definitions**). Then every grouped element is sorted by its length.

**FM SortMark** – parameter with the result. You can find it in **Element Properties** → **Identity Data**.

Properties	
M_WF Stud LMBR 45x200	
Structural Framing (Other) (1) <span>Edit Type</span>	
Elevation at Top	Varies
Elevation at Bottom	Varies
Identity Data	
FM HostSortMark	
FM Number of Connectors	0.000000
Assembly Name	W-2
Image	
Comments	
Mark	
Framing Member	Stud
Framing Member Type	Stud
Framing	Wall
Framing Member Description	Stud
Framing Layer	Frame
Framing Member Mark	VS-1
FM HostMemberSortMark	W-2
Framing Member Volume	0.025 m <sup>3</sup>
Framing Member Cut Length	2820.0
FM Module Mark	
FM Module Type	
FM Module Preassembled	<input checked="" type="checkbox"/>
FM Wood Grade	
FM Wall Layer	Frame
FM SortMark	VS-1
Framing Member Mass	14.160 kg
CNC Part Number	
CNC Part Name	
CNC Part Position	1;1410; 3;1410



### Number Elements - Example 3

**Numbering Configuration**

Configuration: Default Configuration Save Duplicate... Rename... Delete

Wall Numbering Setup | Part Numbering Setup | Numbering Setup

Sort & Number Structural Framing and Connections

Write Position for CNC Mark	<input type="checkbox"/>
Sort Structural Framing by Id (will be removed)	<input type="checkbox"/>
Sort Structural Framing by Mark (will be removed)	<input type="checkbox"/>
Sort Structural Framing by Assembly Name (will be removed)	<input type="checkbox"/>
Sort Structural Framing from Start to End	<input type="checkbox"/>
Sort Structural Connections by Mar (will be removed)	<input type="checkbox"/>

Sort Mark Structural Framings

Sort Mark Configuration	
FM SortMark - by Frame Host and Member Mark	<input checked="" type="checkbox"/>
-- None --	<input type="checkbox"/>
-- None --	<input type="checkbox"/>
-- None --	<input type="checkbox"/>
-- None --	<input type="checkbox"/>
-- None --	<input type="checkbox"/>
-- None --	<input type="checkbox"/>

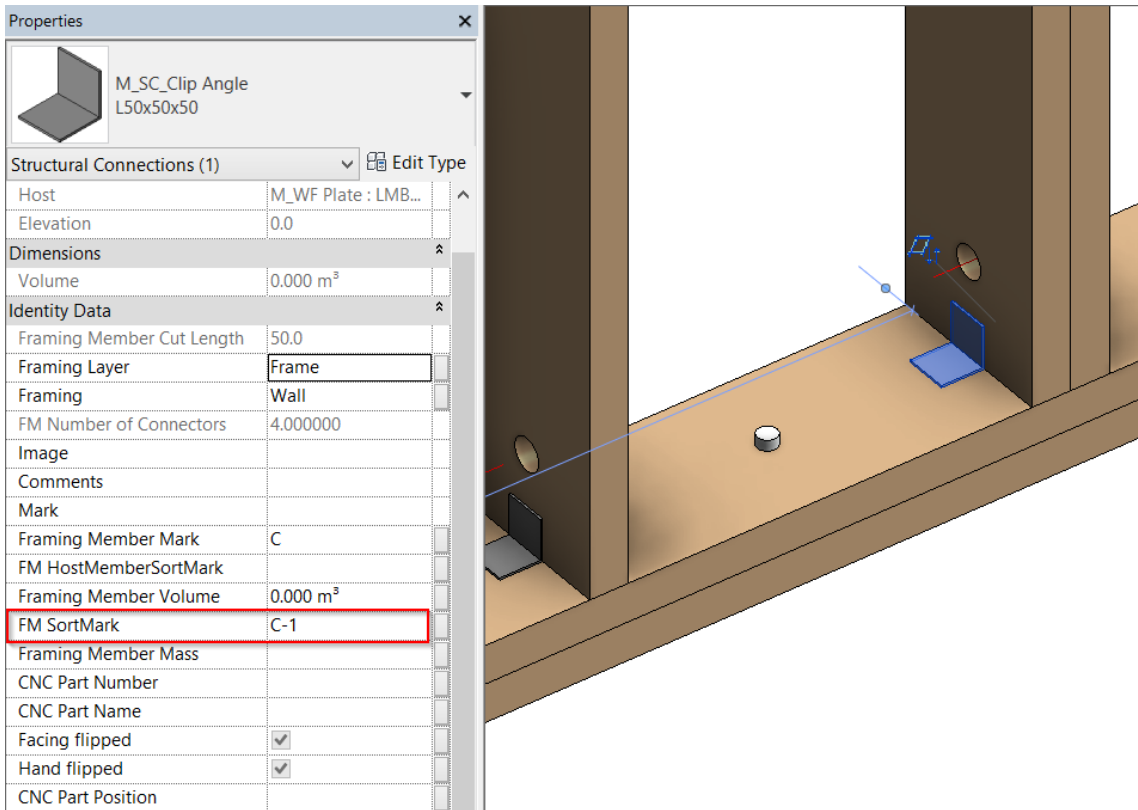
Sort Mark Structural Connections

Sort Mark Configuration	
FM SortMark - by Host and Connection Mark & Type	<input checked="" type="checkbox"/>
-- None --	<input type="checkbox"/>
-- None --	<input type="checkbox"/>
-- None --	<input type="checkbox"/>
-- None --	<input type="checkbox"/>
-- None --	<input type="checkbox"/>
-- None --	<input type="checkbox"/>

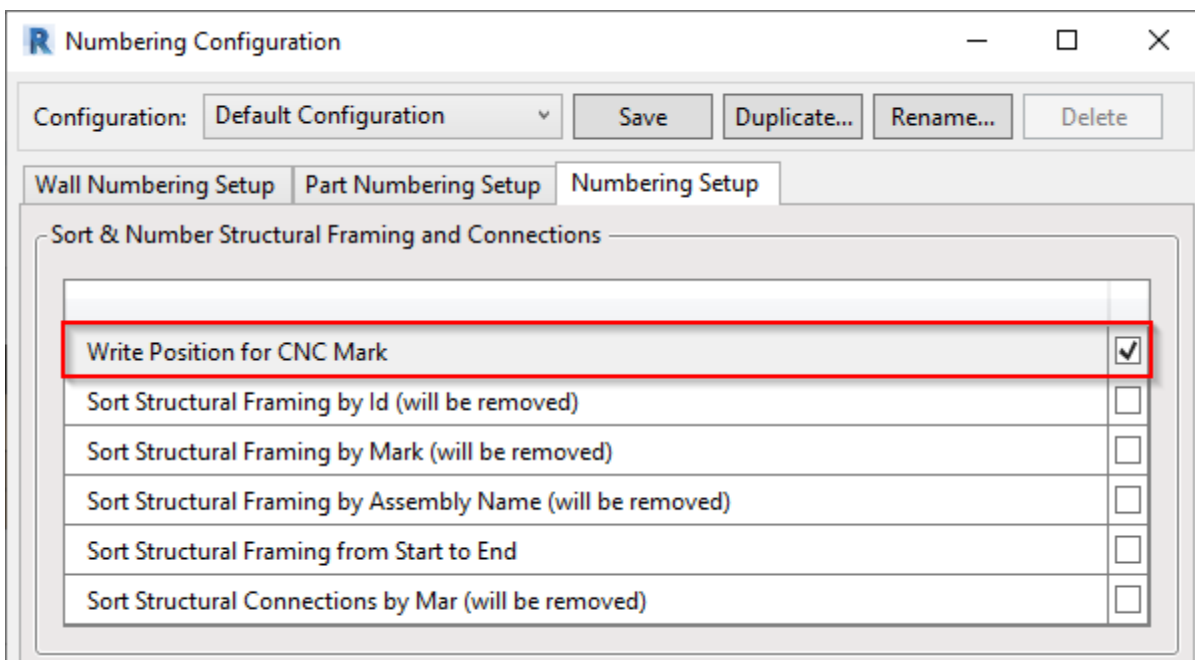
OK Cancel

**FM SortMark - by Host and Connection Mark & Type** – a sample rule for numbering details (under structural connections category). It groups details by frame host and **Framing Member Mark** (comes from **Framing Configuration** → **Common Settings** → **Elements Mark Definitions**). Then every grouped detail is sorted by type.

**FM SortMark** – parameter with the result. You can find it in **Element Properties** → **Identity Data**.



## Write Position for CNC Mark



**Write Position for CNC Mark** – writes CNC position information to framing elements (under Structural Framing Category) and writes result to **CNC Part Position** instance parameter (<http://www.aga-cad.com/products/tools4revit/sort-mark>).

Properties

M\_WF Stud  
LMBR 45x200

Structural Framing (Other) (1) Edit Type

Framing	Wall
Framing Member Description	Stud
Framing Layer	Frame
Framing Member Mark	VS
FM HostMemberSortMark	W-2
Framing Member Volume	0.025 m <sup>3</sup>
Framing Member Cut Length	2820.0
FM Module Mark	
FM Module Type	
FM Module Preassembled	<input checked="" type="checkbox"/>
FM Wood Grade	
FM Wall Layer	Frame
FM SortMark	VS-1
Framing Member Mass	14.160 kg
CNC Part Number	
CNC Part Name	
CNC Part Position	1;1410; 3;1410

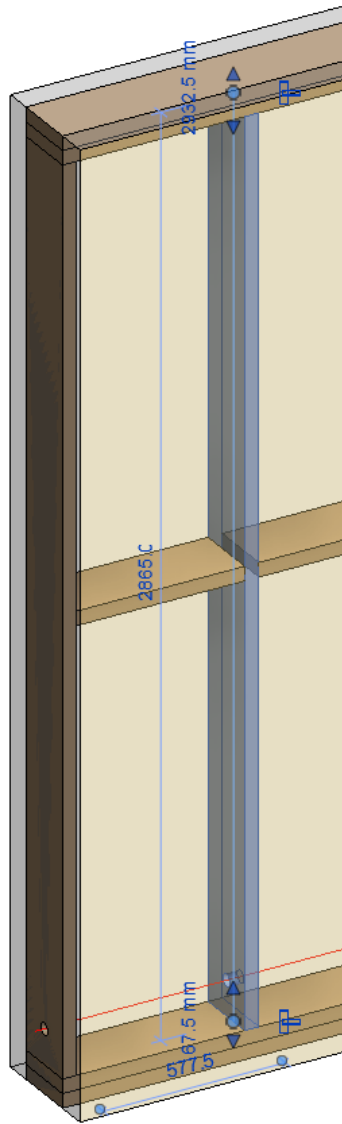
Phasing

Phase Created	Phase 1
Phase Demolished	None

Model Properties

End Slope	0.00°
Insert_Left	<input type="checkbox"/>
Insert_Right	<input type="checkbox"/>
Roof Slope	0.00°
Rotated	<input type="checkbox"/>
Start Slope	0.00°

Properties help Apply



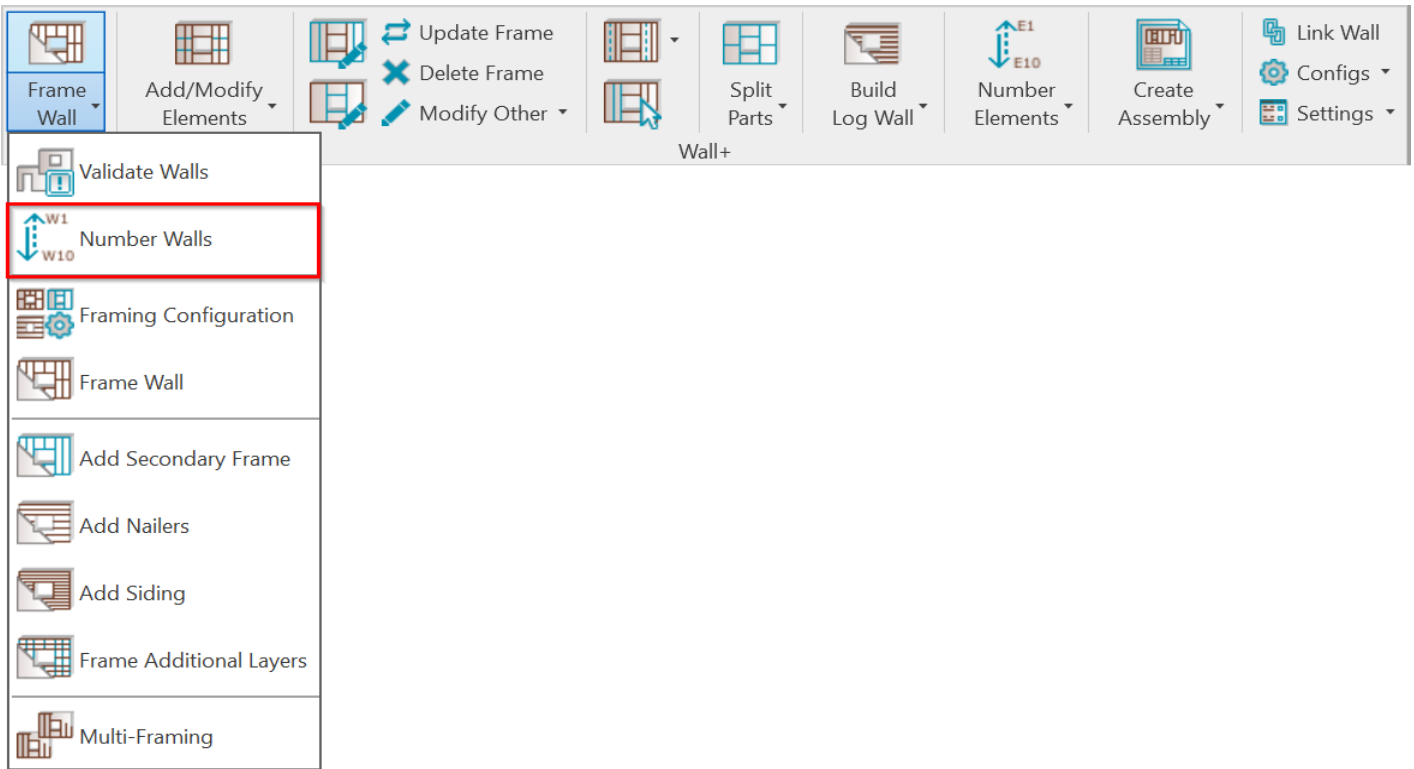
### Number Walls

Frame Wall | Add/Modify Elements | Update Frame | Delete Frame | Modify Other | Wall+ | Split Parts | Build Log Wall | Number Elements | Create Assembly | Link Wall | Configs | Settings

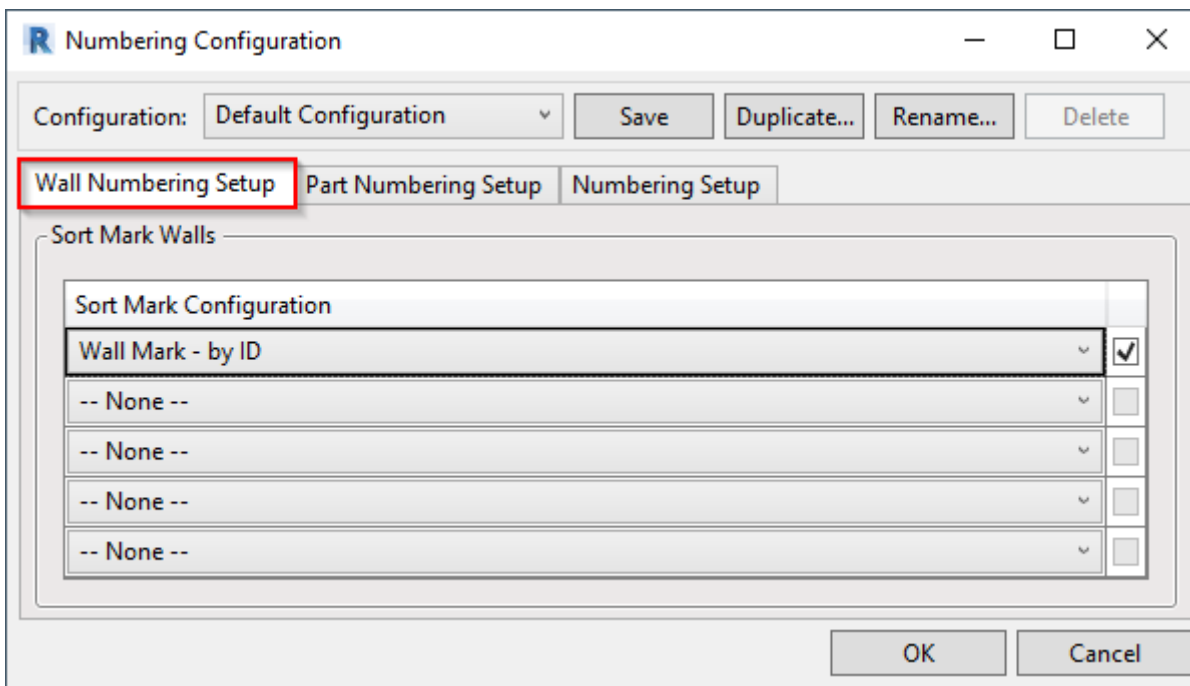
Number Elements  
Numbering Configuration  
**Number Walls**  
Number Parts

OR:





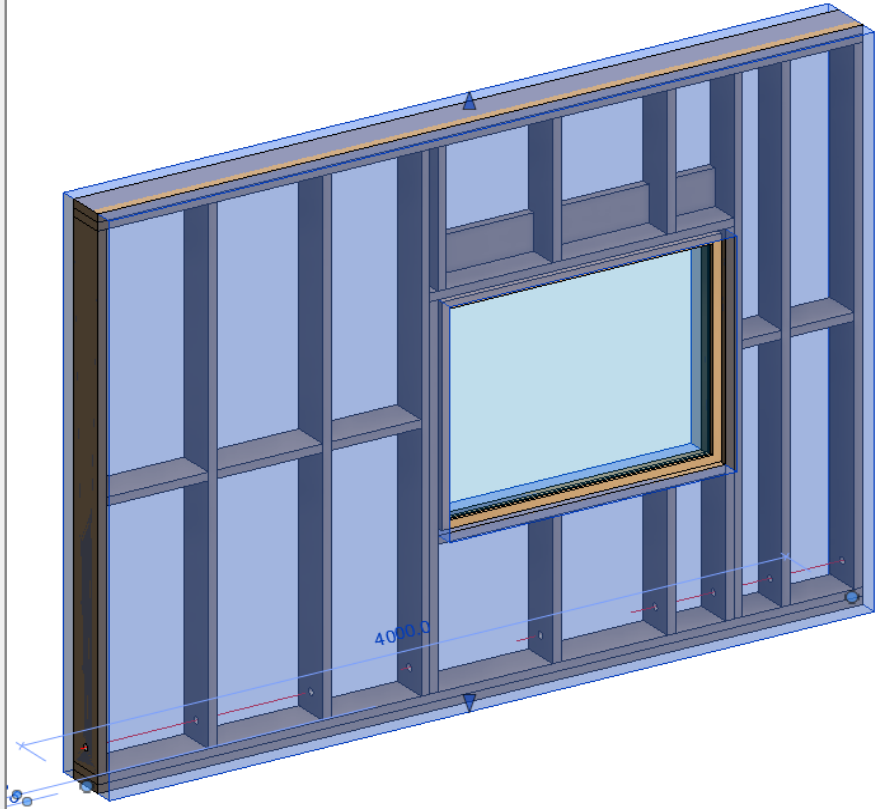
**Number Walls** – rennumbers all walls by predefined configuration in **Numbering Configuration** → **Wall Numbering Setup**. Wall numbering configurations come from **Sort Mark** (<http://www.aga-cad.com/products/tools4revit/sort-mark>).



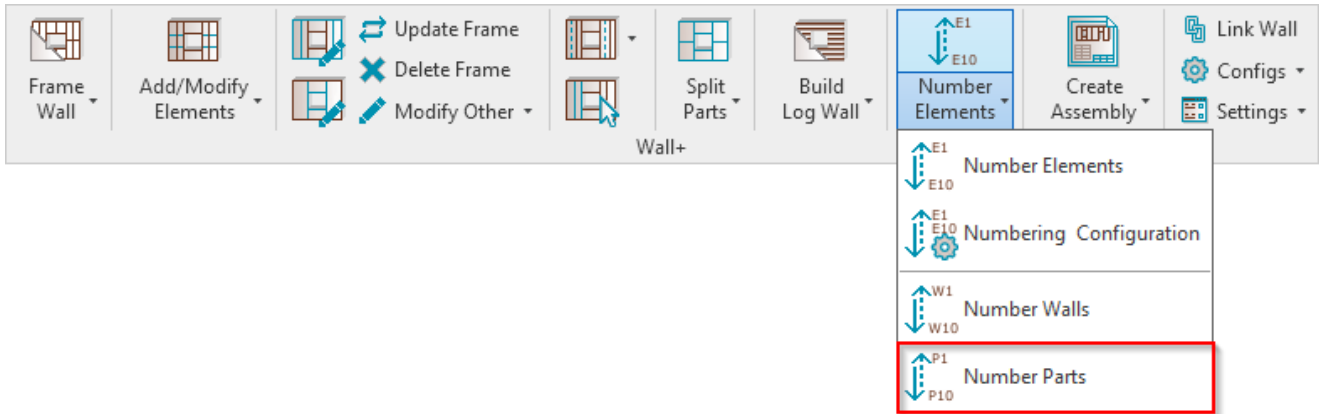
*Example: All walls are numbered by unique number, which has W as a prefix. Result is written to the Mark instance parameter.*

[Sort Mark E-Help >>](#)

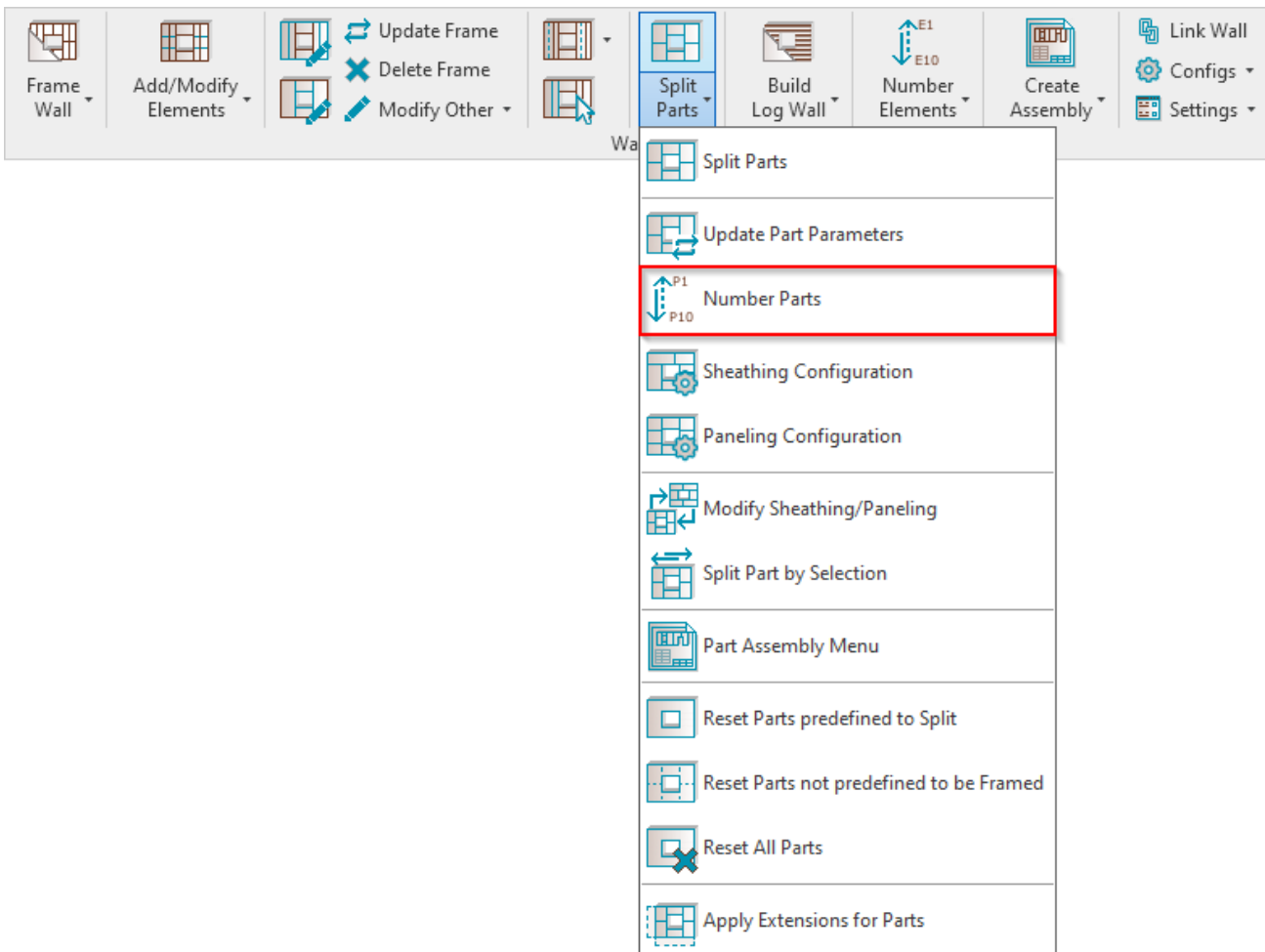
Properties	
Basic Wall A_Separate Modules	
Walls (1) Edit Type	
Area	10.170 m <sup>2</sup>
Volume	3.865 m <sup>3</sup>
Identity Data	
Image	
Comments	
Mark	W-2
Framing Member	
Framing Member Type	
Framing	
Framing Member Description	
Framing Layer	
Framing Member Mark	
FM HostMemberSortMark	
Framing Member Volume	
FM Module Mark	
FM Module Type	
FM Module Preassembled	<input checked="" type="checkbox"/>
Joined Opening	
Assembly Area	13.710 m <sup>2</sup>
Assembly Volume	3.894 m <sup>3</sup>
Assembly Width	284.0
Assembly Depth	284.0
Assembly Length	4570.0
Assembly Height	3000.0
FMid SortMark	



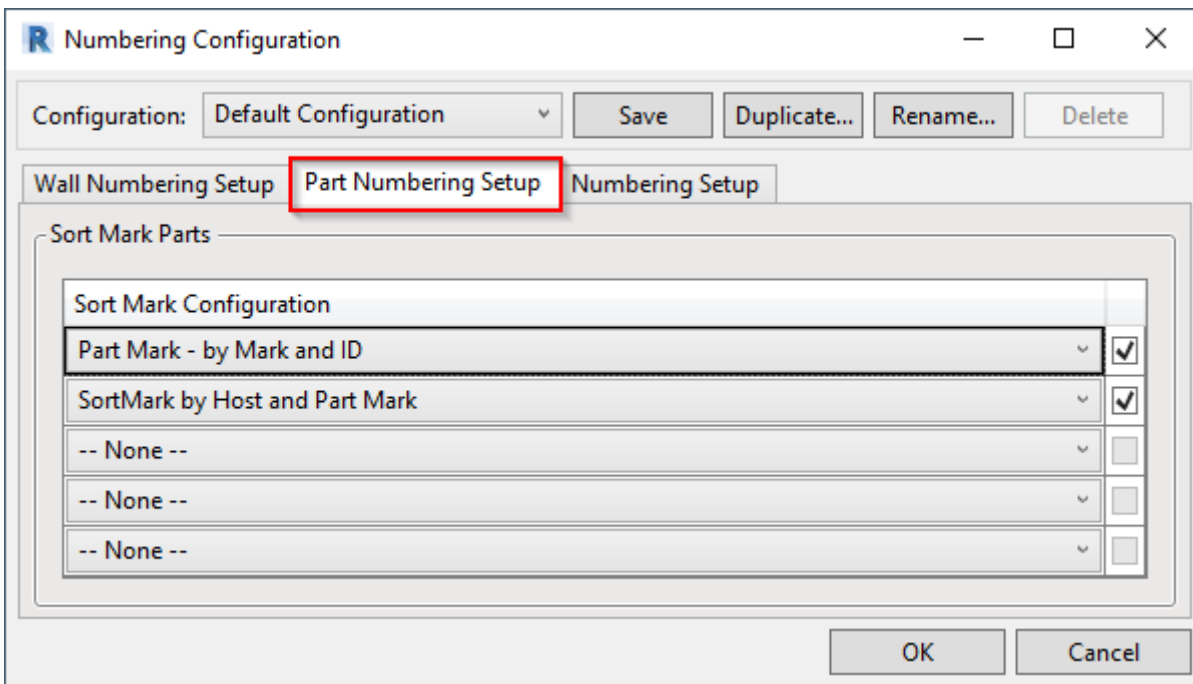
### Number Parts



OR:



**Number Parts** – rennumbers all sheathing/paneling (Parts) by predefined configuration in **Numbering Configuration** → **Part Numbering Setup**. Part numbering configurations come from **Sort Mark** (<http://www.agacad.com/products/tools4revit/sort-mark>).



*Example: All sheathing/paneling elements (Parts) are grouped by **Framing Member Mark** (comes from **Framing Configuration** → **Common Settings** → **Elements Mark Definitions**), uniquely numbered, and have **Framing Member Mark** value as a prefix. Result is written to the **Mark** instance parameter.*

[Sort Mark E-Help >>](#)

Properties

**R**

Parts (1) Edit Type

Area	3.539 m <sup>2</sup>
Length	1179.5
Height	3000.0
Thickness	12.0
Excluded	<input type="checkbox"/>
Shape is modified	<input type="checkbox"/>

Identity Data

Image	
Comments	
Mark	SH-7
Framing Member	Framing Sheathing
Framing Member Type	Sheathing
Framing	Wall
Framing Member Description	Sheathing
Framing Layer	Sheathing
Framing Member Mark	SH
FM HostMemberSortMark	W-2
Framing Member Volume	0.122 m <sup>3</sup>
FM SortMark	SH-5
Framing Member Mass	29.723 kg
Show Shape Handles	<input type="checkbox"/>
Original Category	Walls
Original Family	Basic Wall
Original Type	A_Separate Modul...
Material By Original	<input checked="" type="checkbox"/>
Material	Sheathing(2)
Construction	Finish

