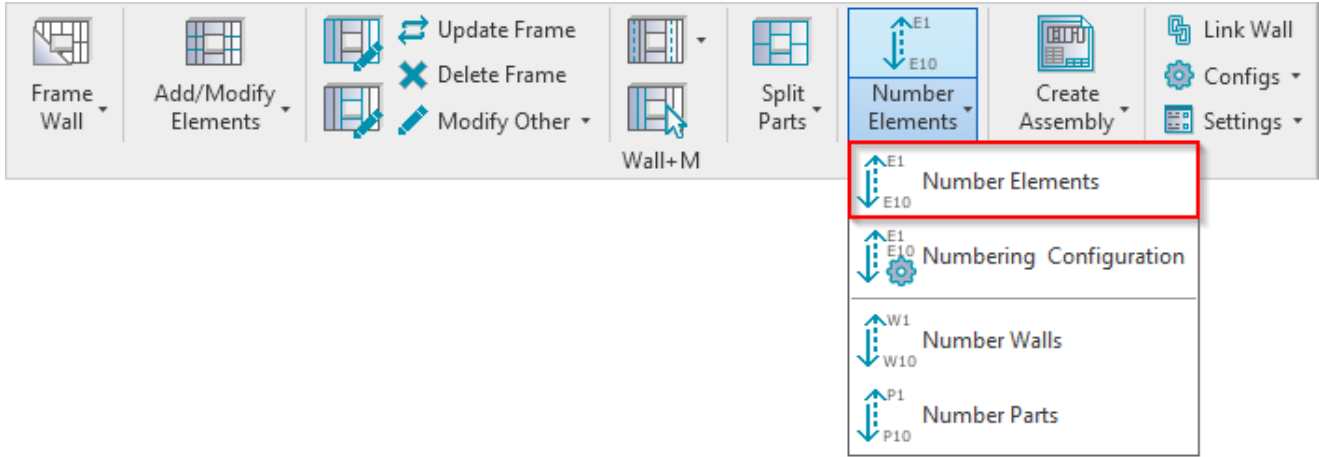


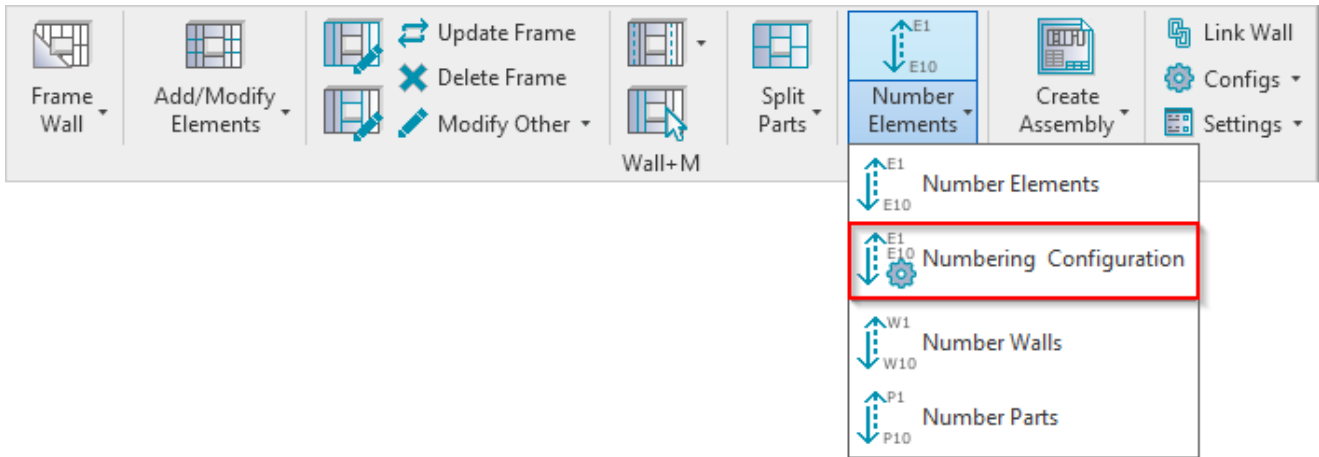
# NUMBERING

Modified on: Sat, 7 Sep, 2019 at 6:08 PM

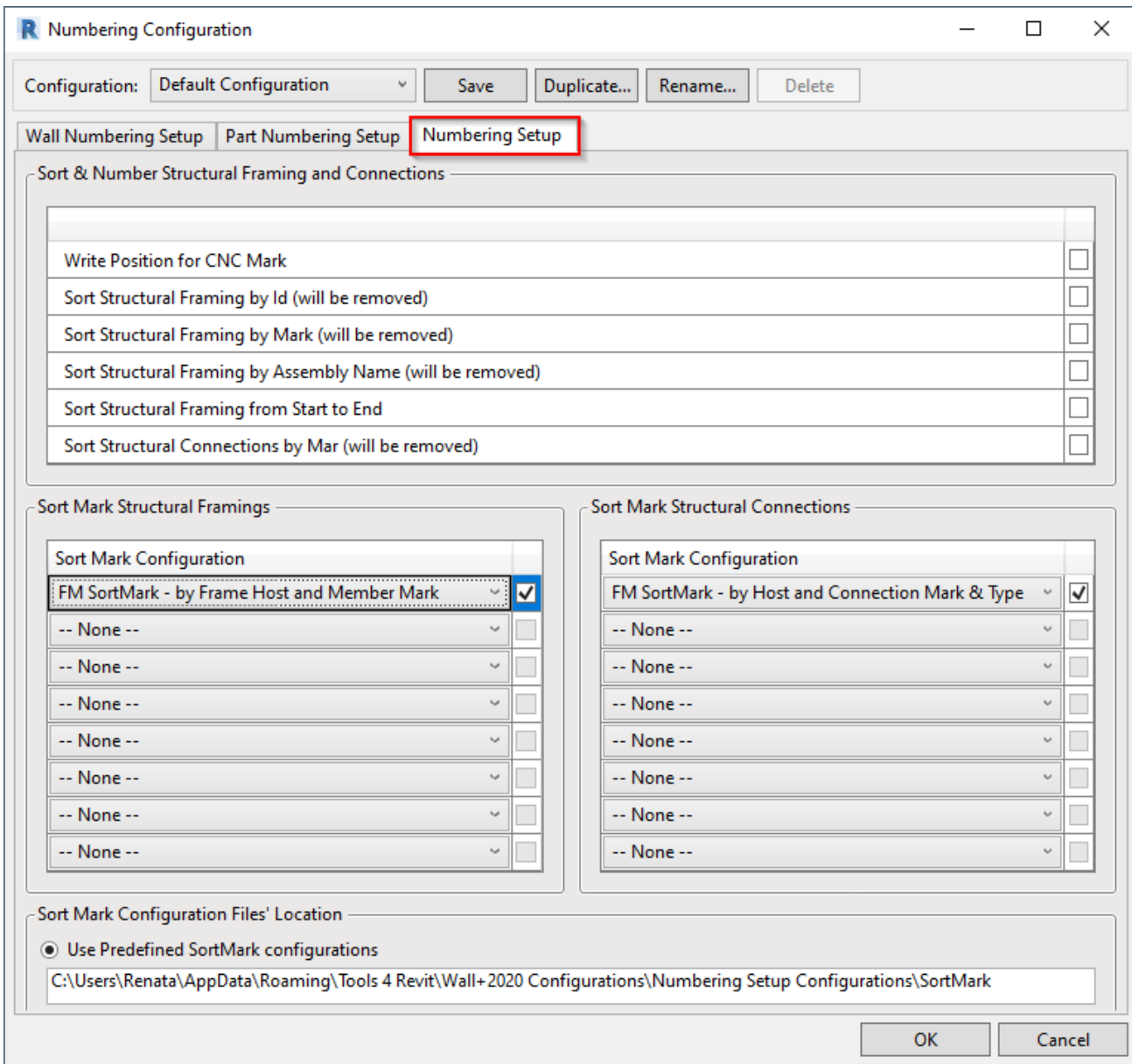
## Number Elements



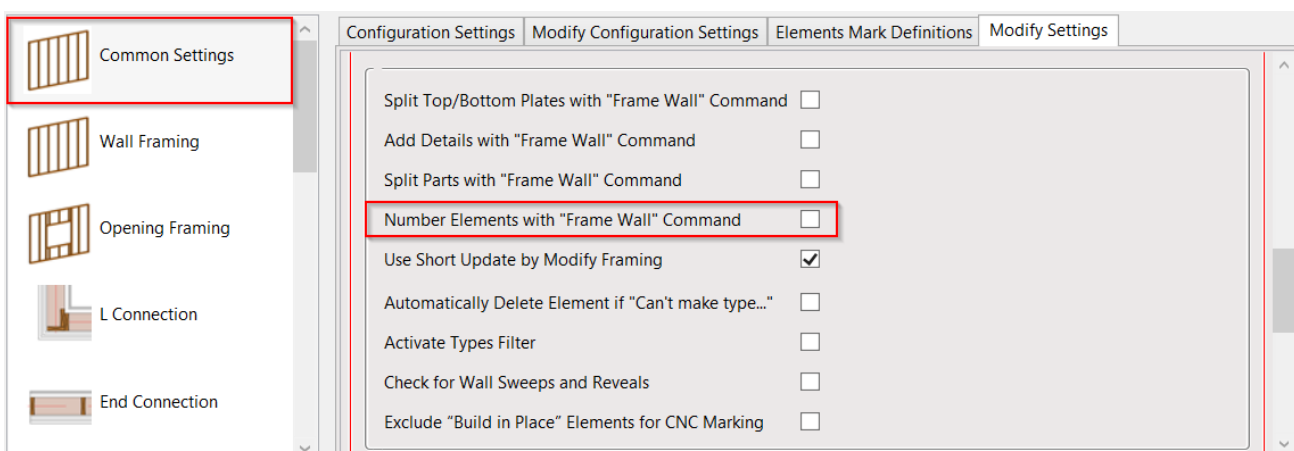
**Number Elements** – rennumbers all framing elements (under Structural Framing category) and details (under Structural Connections category) by predefined **Numbering Configuration**. It have many options for simple and complex numbering when you need to load many numbering rules.



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/44001794277-numbering-%E2%80%93-numbering-configuration>).

## Number Elements - Example 1

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 & Member Mark and Element ID	<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"/>
-- None --	<input type="checkbox"/>

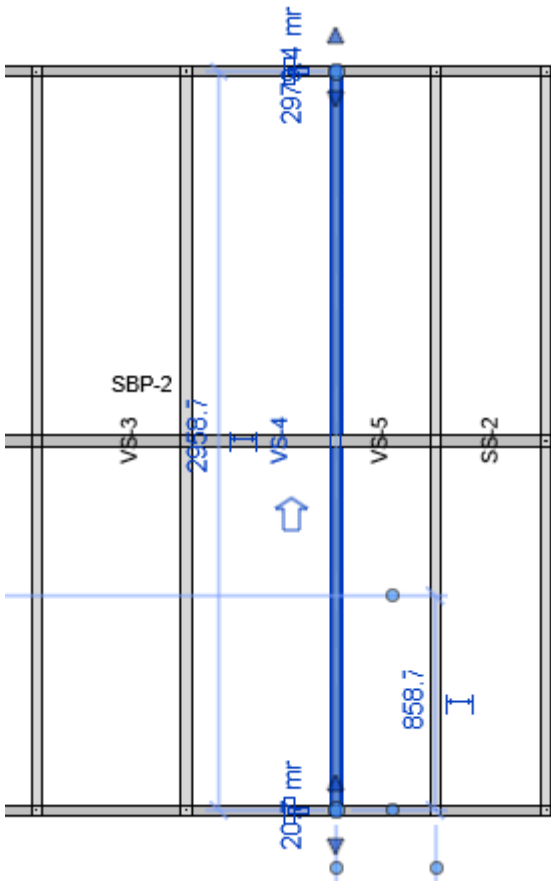
Sort Mark Structural Connections

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"/>
-- None --	<input type="checkbox"/>

OK Cancel

**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\_MF C+C\_CH Stud  
C08941-10

Structural Framing (Other) (1) Edit Type

Mark	
Framing Member	Stud
Framing Member Type	Stud
Framing Member Cut Length	2998.0
Framing	Wall
Framing Member Description	Stud
FM SortMark	VS-4
Framing Layer	Frame
Framing Member Mark	VS
FM HostMemberSortMark	W-11
Framing Member Mass	
Framing Member Volume	0.002 m <sup>3</sup>
Link to Connected Wall	<input checked="" type="checkbox"/>
Build in Place	<input checked="" type="checkbox"/>
CNC Part Number	

Properties help Apply

### 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"/>
-- None --	<input 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"/>

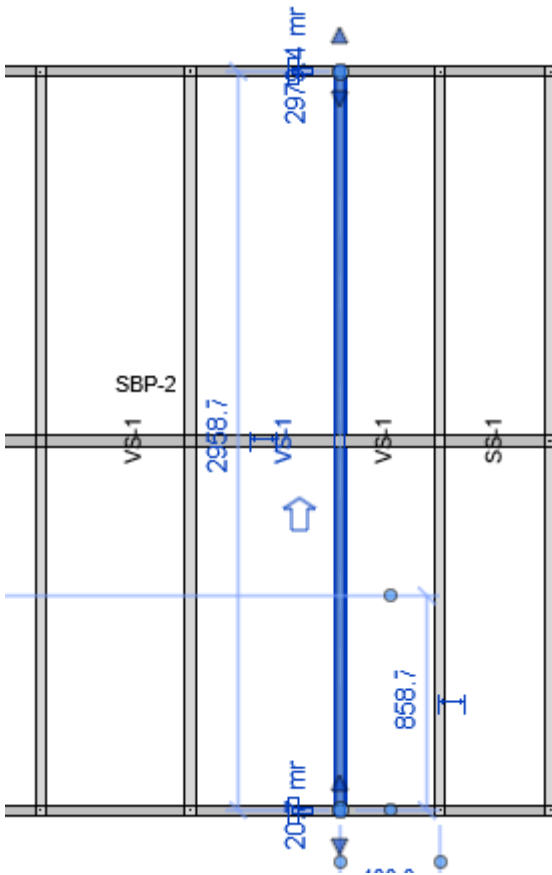
Sort Mark Structural Connections

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"/>
-- None --	<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\_MF C+C\_CH Stud  
C08941-10

Structural Framing (Other) (1) Edit Type

Mark	
Framing Member	Stud
Framing Member Type	Stud
Framing Member Cut Length	2998.0
Framing	Wall
Framing Member Description	Stud
FM SortMark	VS-1
Framing Layer	Frame
Framing Member Mark	VS
FM HostMemberSortMark	W-11
Framing Member Mass	
Framing Member Volume	0.002 m <sup>3</sup>
Link to Connected Wall	<input checked="" type="checkbox"/>
Build in Place	<input checked="" type="checkbox"/>
CNC Part Number	

[Properties help](#) Apply

### 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	<input type="checkbox"/>
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"/>
-- None --	<input type="checkbox"/>

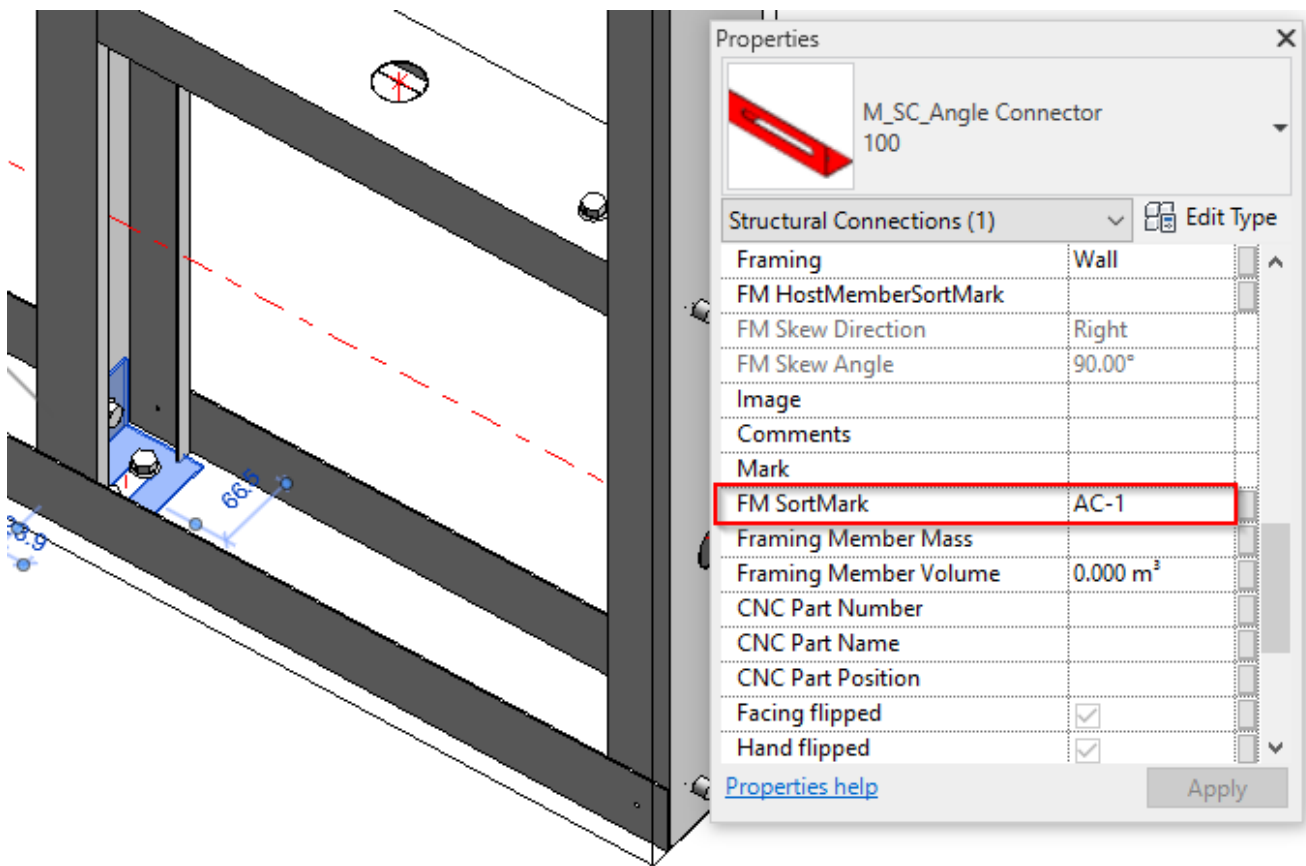
Sort Mark Structural Connections

Sort Mark Configuration	<input type="checkbox"/>
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"/>
-- None --	<input type="checkbox"/>

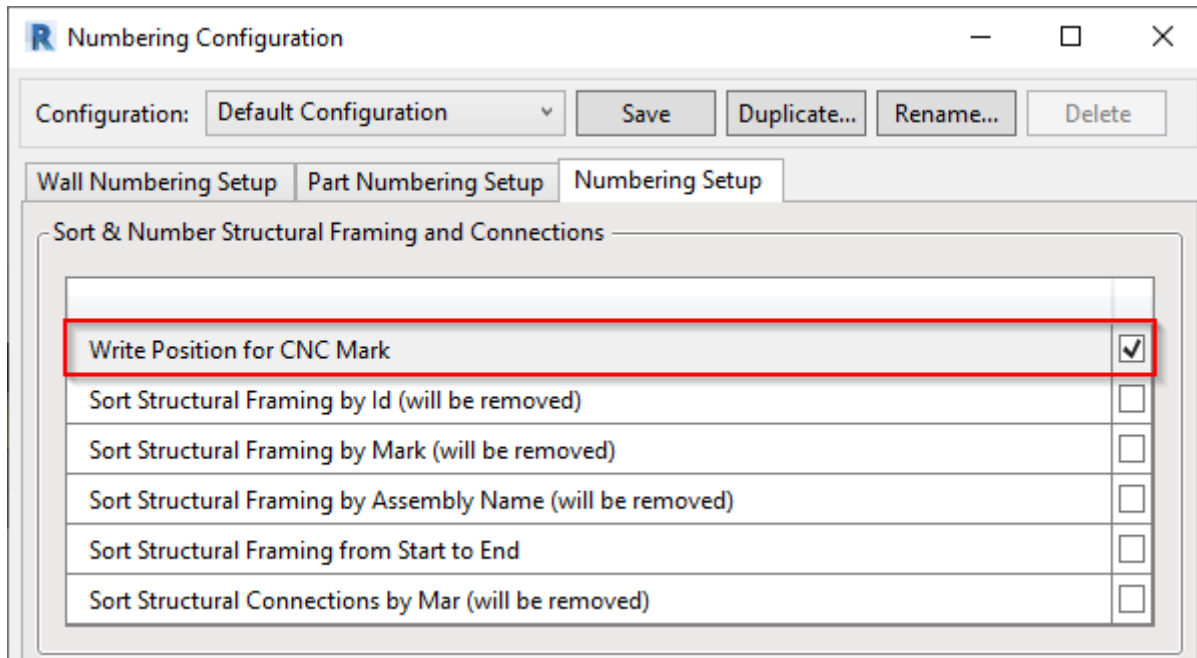
OK Cancel

**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**.



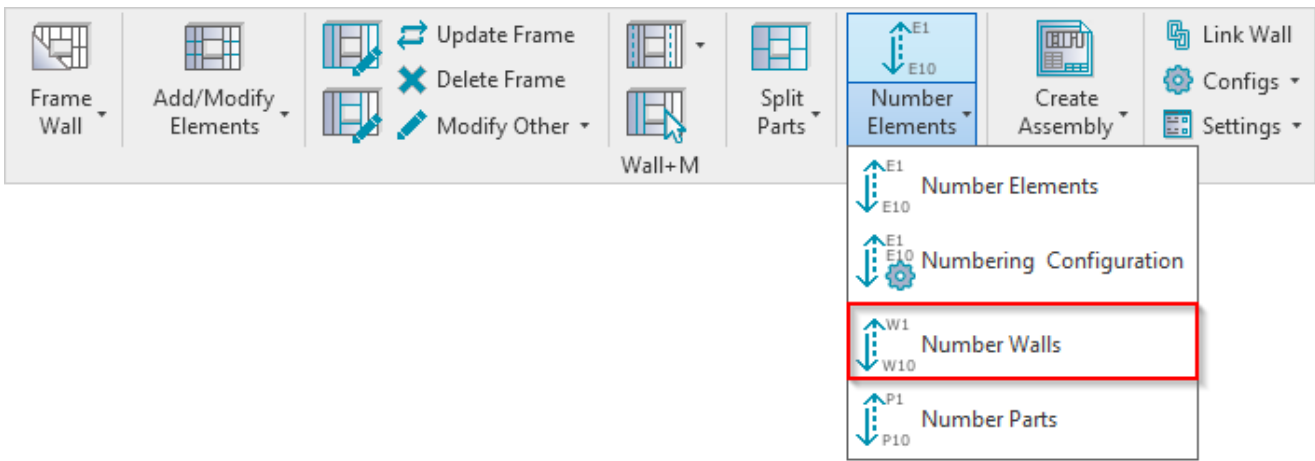
## Write Position for CNC Mark



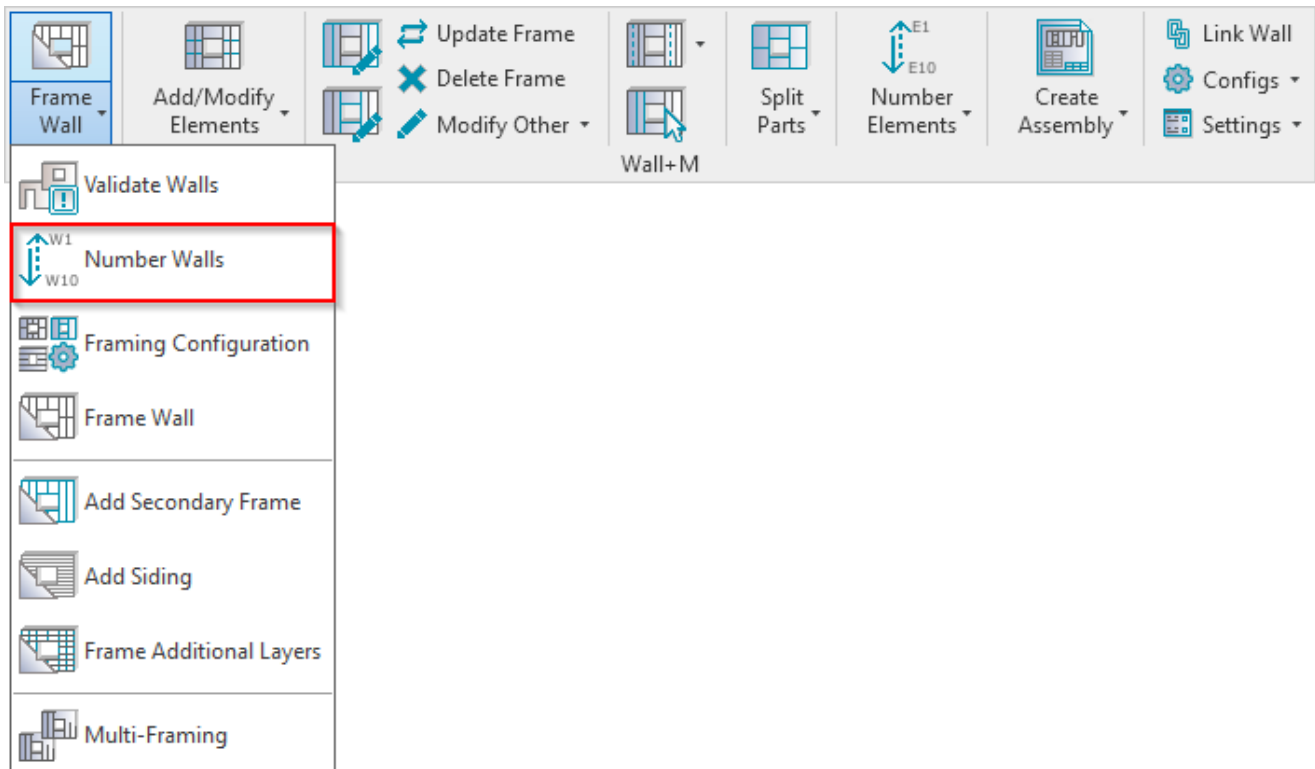
**Write Position for CNC Mark** – writes CNC position information to framing elements (under Structural Framing Category) and writes result to **CNC Part Position** instance parameter (<http://www.aga-cad.com/products/tools4revit/sort-mark>).

## Number Walls

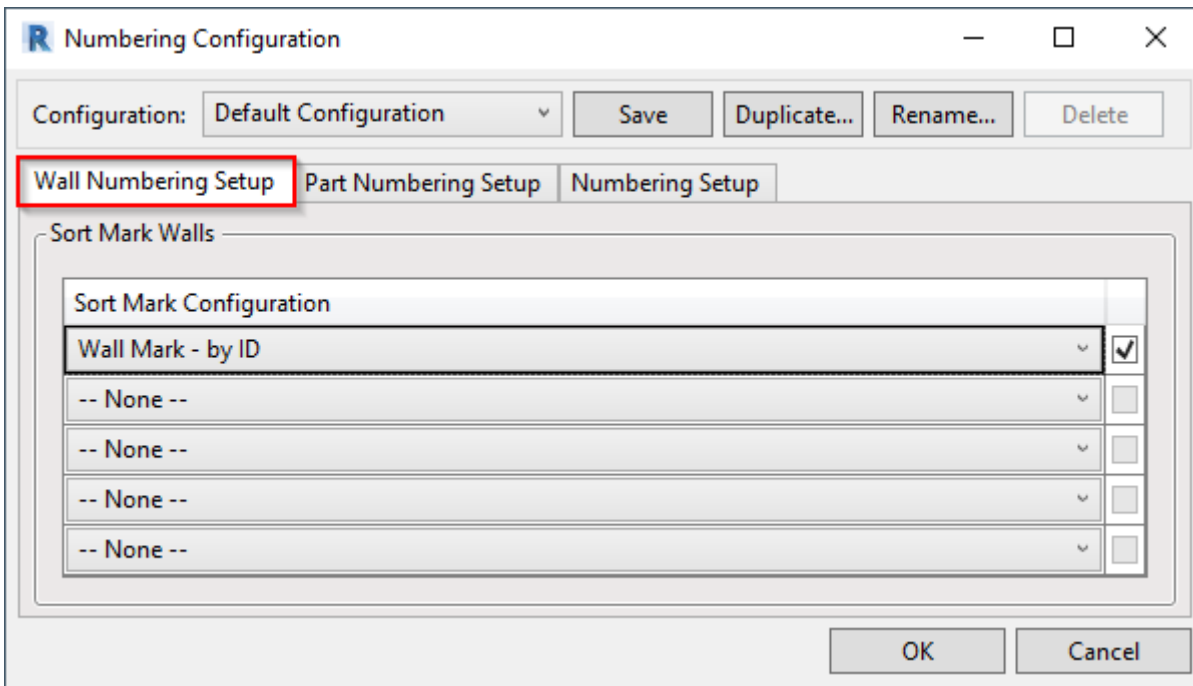




OR:

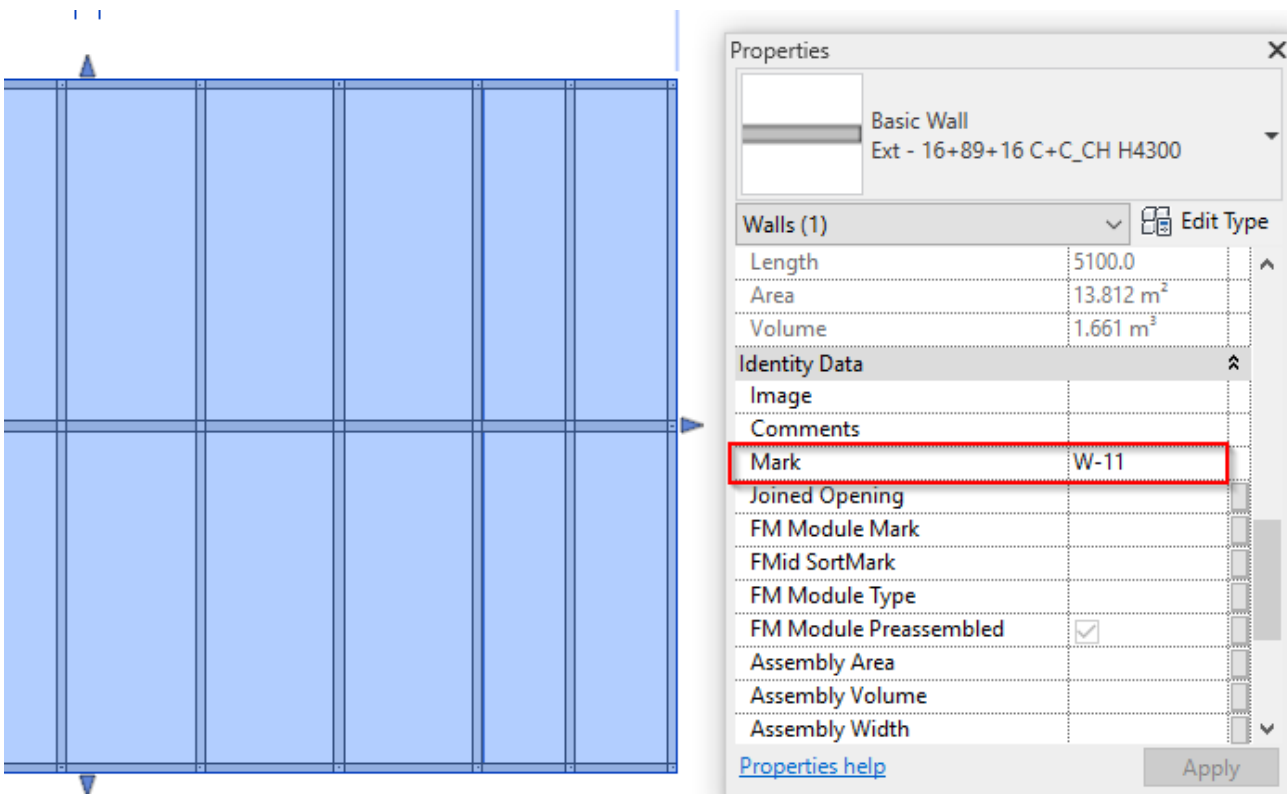


**Number Walls** – rennumbers all walls by predefined configuration in **Numbering Configuration** → **Wall Numbering Setup**. Wall numbering configurations come from **Sort Mark** (<http://www.aga-cad.com/products/tools4revit/sort-mark>).

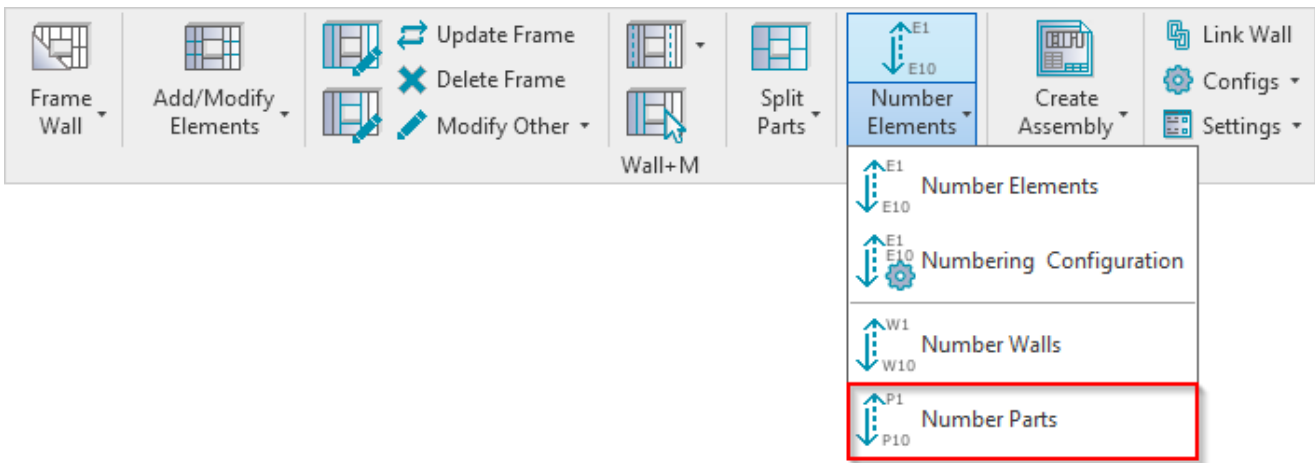


*Example: All walls are numbered by unique number, which has W as a prefix. Result is written to the Mark instance parameter.*

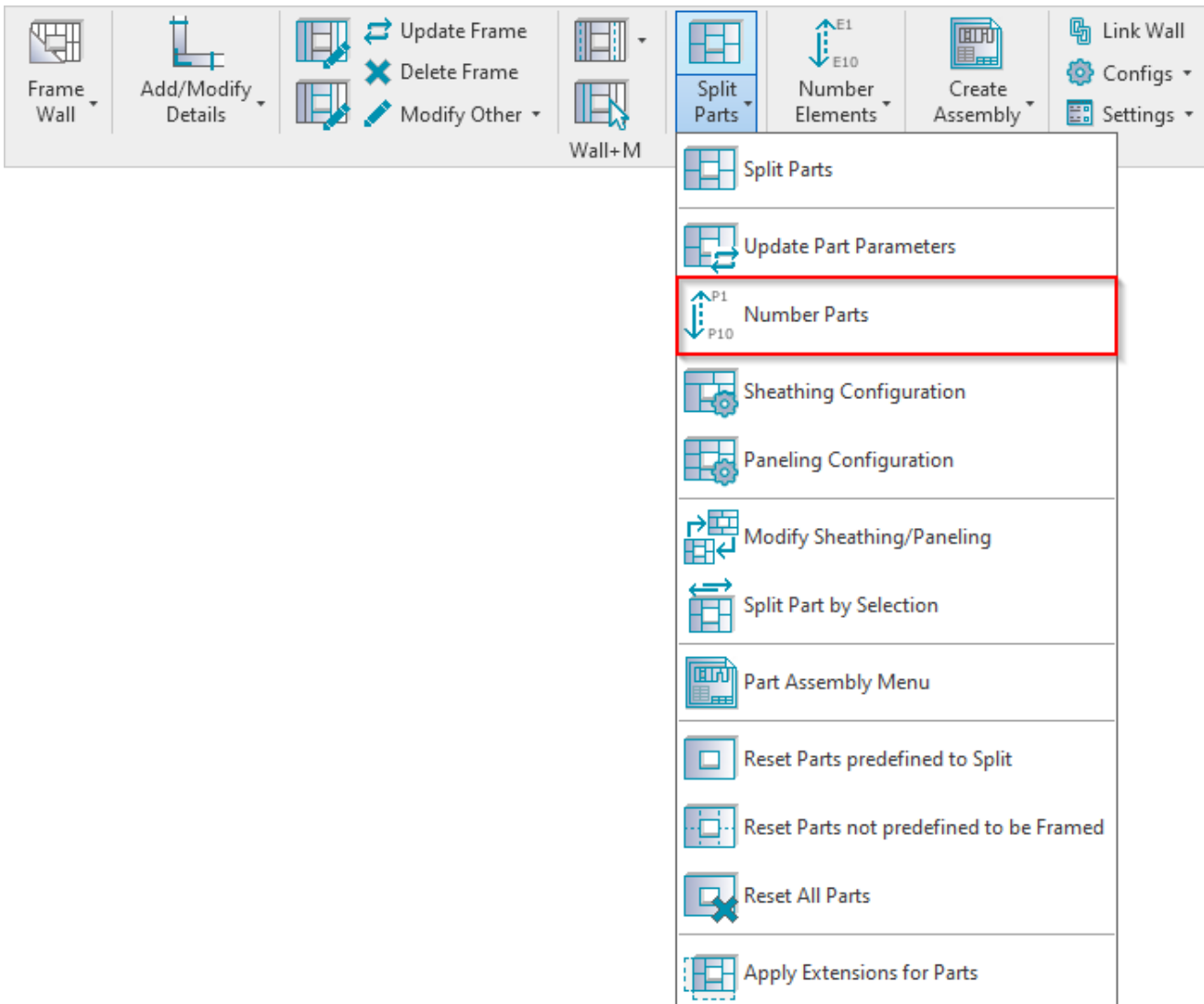
[Sort Mark E-Help >>](#)



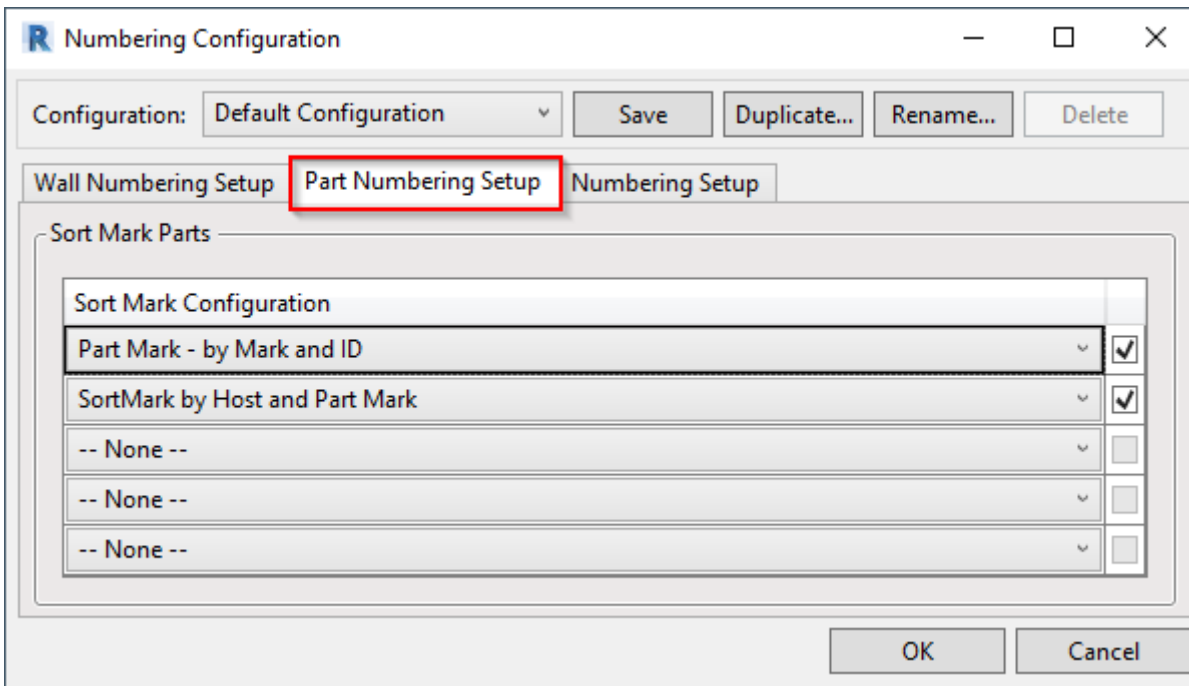
## Number Parts



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 >>](#)

