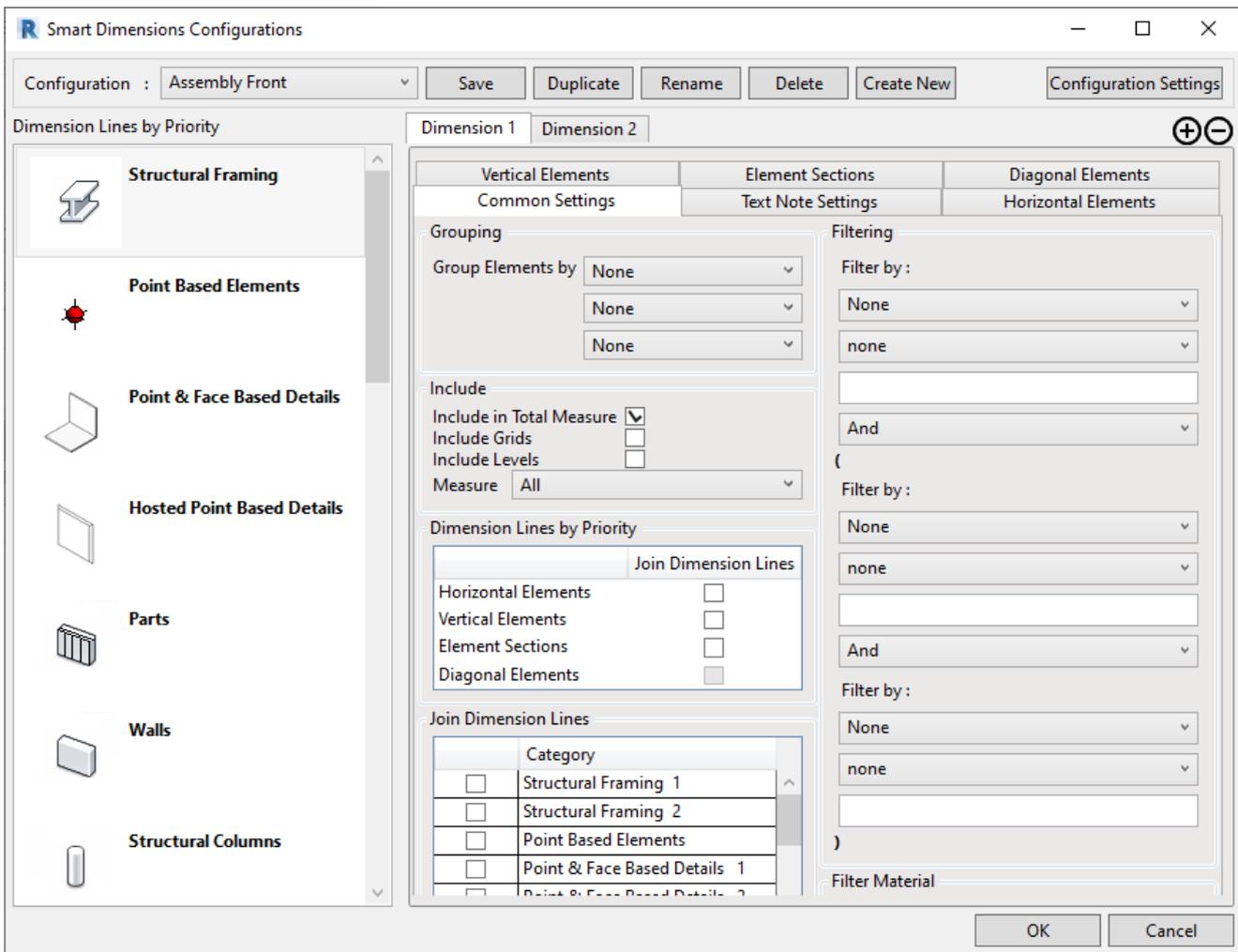
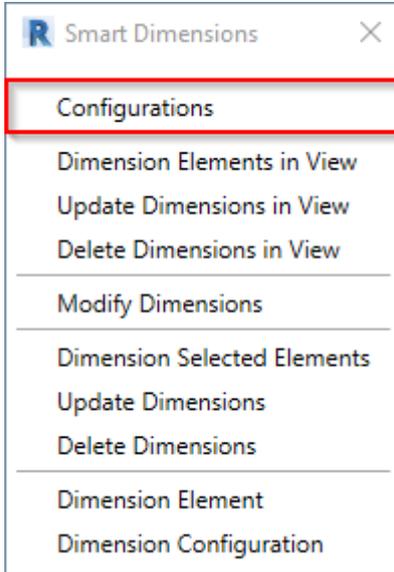


SHOP DRAWINGS – Smart Dimensions – Configuration

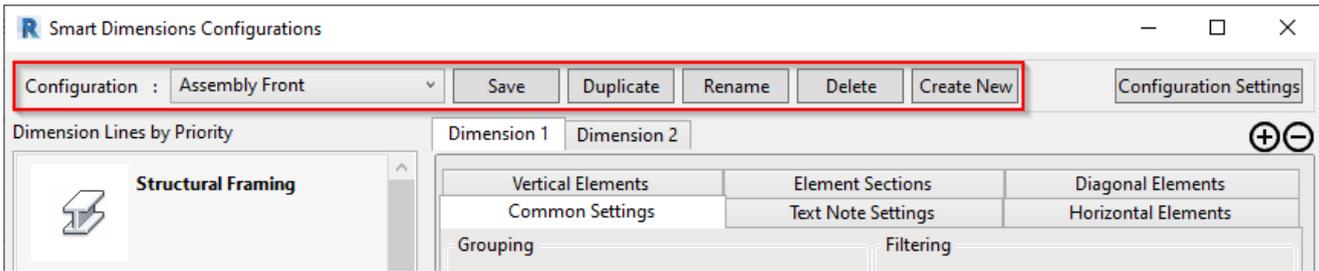
Modified on: Wed, 14 Jul, 2021 at 5:02 PM

Configurations



Configurations – predefine the settings for inserting dimensions. It is very versatile with thousands of different possibilities.

Configurations can be saved, duplicated, renamed, deleted, or created as new:

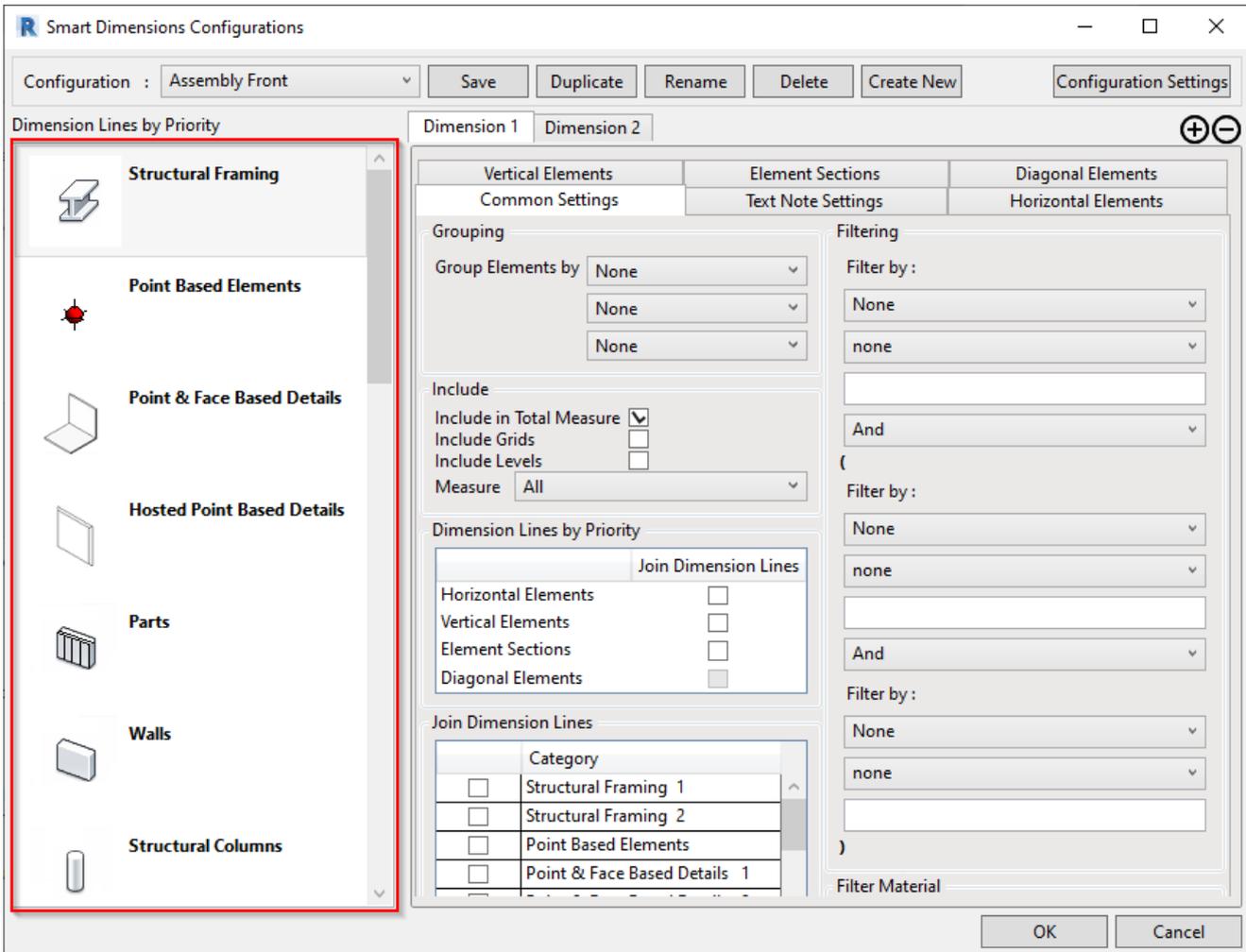


Default path to configurations location:

C:\Users\user name\AppData\Roaming\Tools 4 Revit\Wall+2021 (or other product and version) Configurations\Shop Drawing Configurations\Smart Dimensions

If needed, the content from this catalog can be copied to other users' computers. Also, the path can be changed in **Wall+, Wall+M, Floor+, Floor+M, Roof+, Roof+M** → **Configuration Files' Location**.

Select the elements you want to dimension in this configuration. You can drag selected rows up and down to display the order of dimension lines:



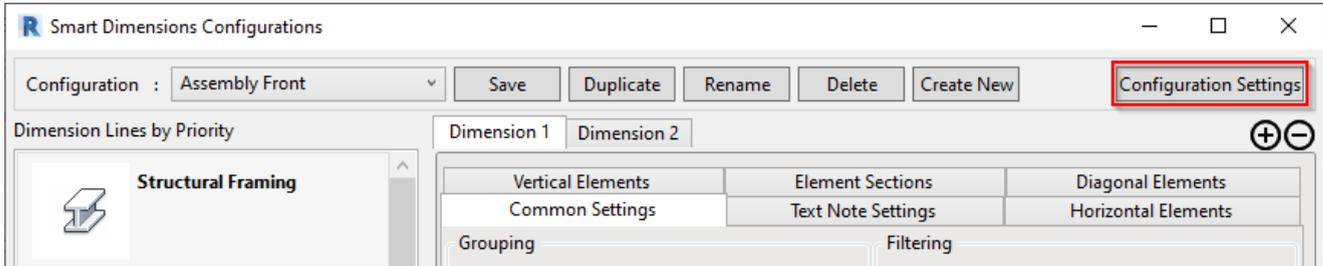
Good practice

1. Set to measure only elements that you have in the view. Do not select everything at once.

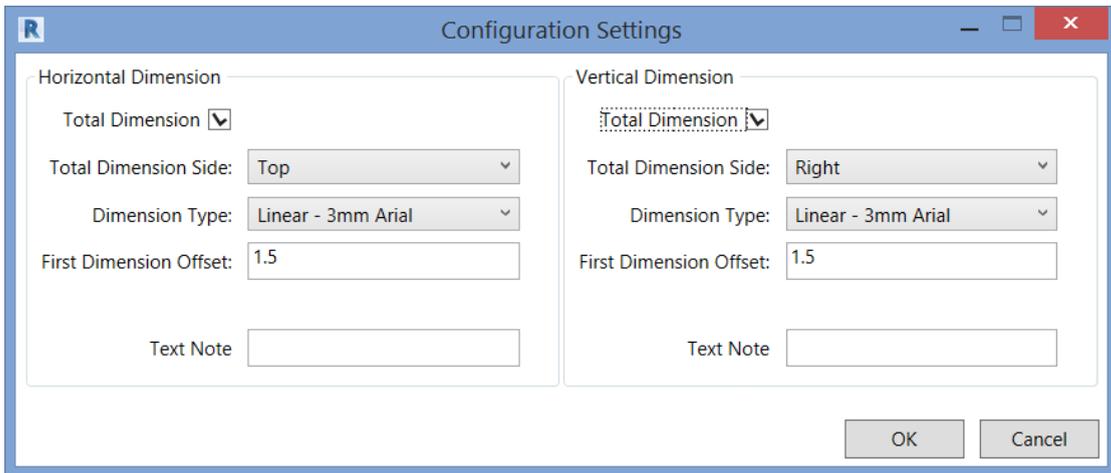
2. In order to gain familiarity with how the software works, change just a few settings and then apply the dimensions to check the results.

3. Use **Smart Dimensions** → **Dimension Elements in View** to quickly check results. Once you are happy with the results, apply them with **Wall+**, **Wall+M**, **Floor+**, **Floor+M**, **Roof+**, **Roof+M** to get the correct position of notes and the final look.

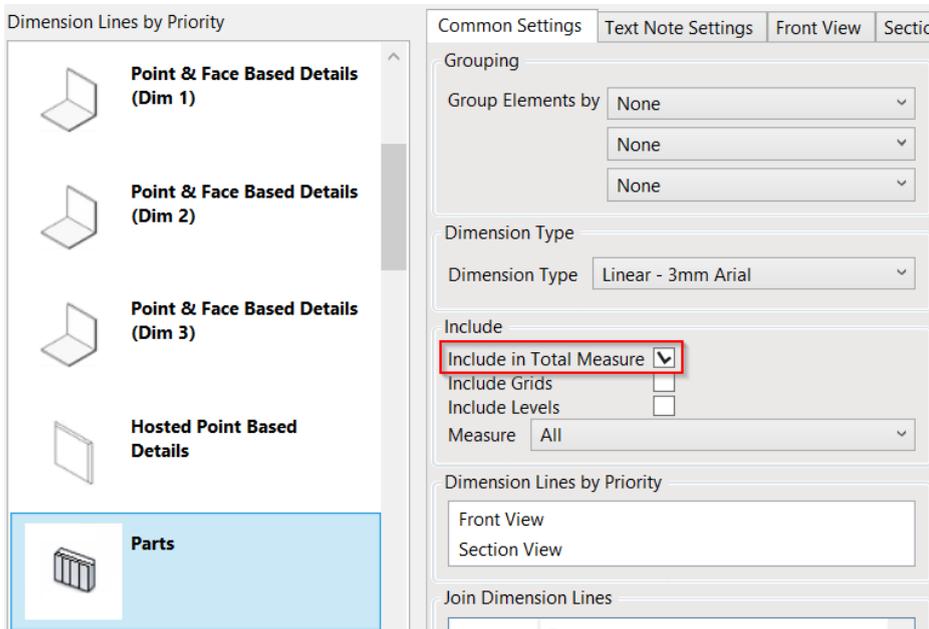
Configuration Settings



Configuration Settings – settings for total dimension lines.

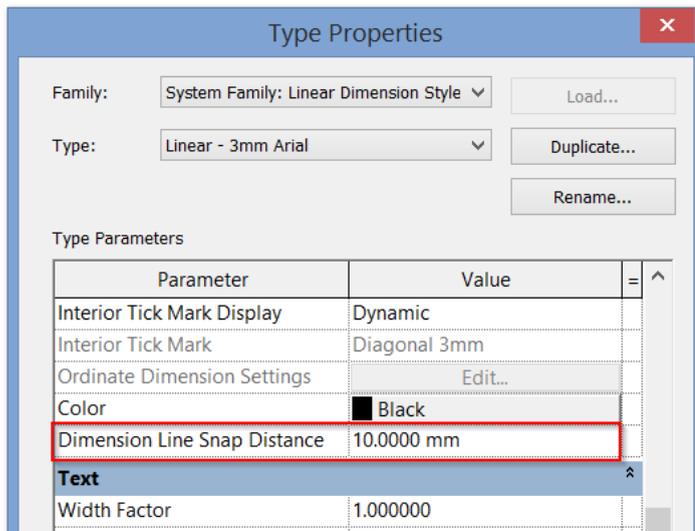
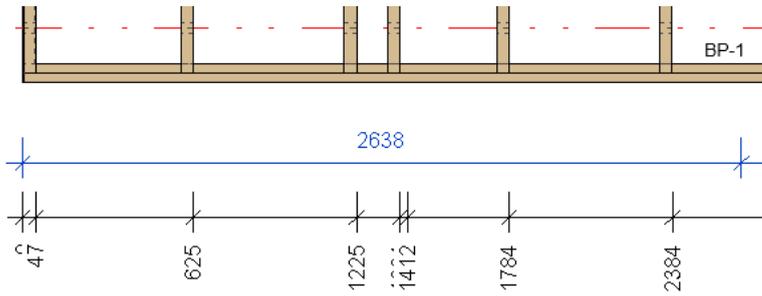


It gives the dimensions of all elements that are selected to be **Included in Total Measure**:



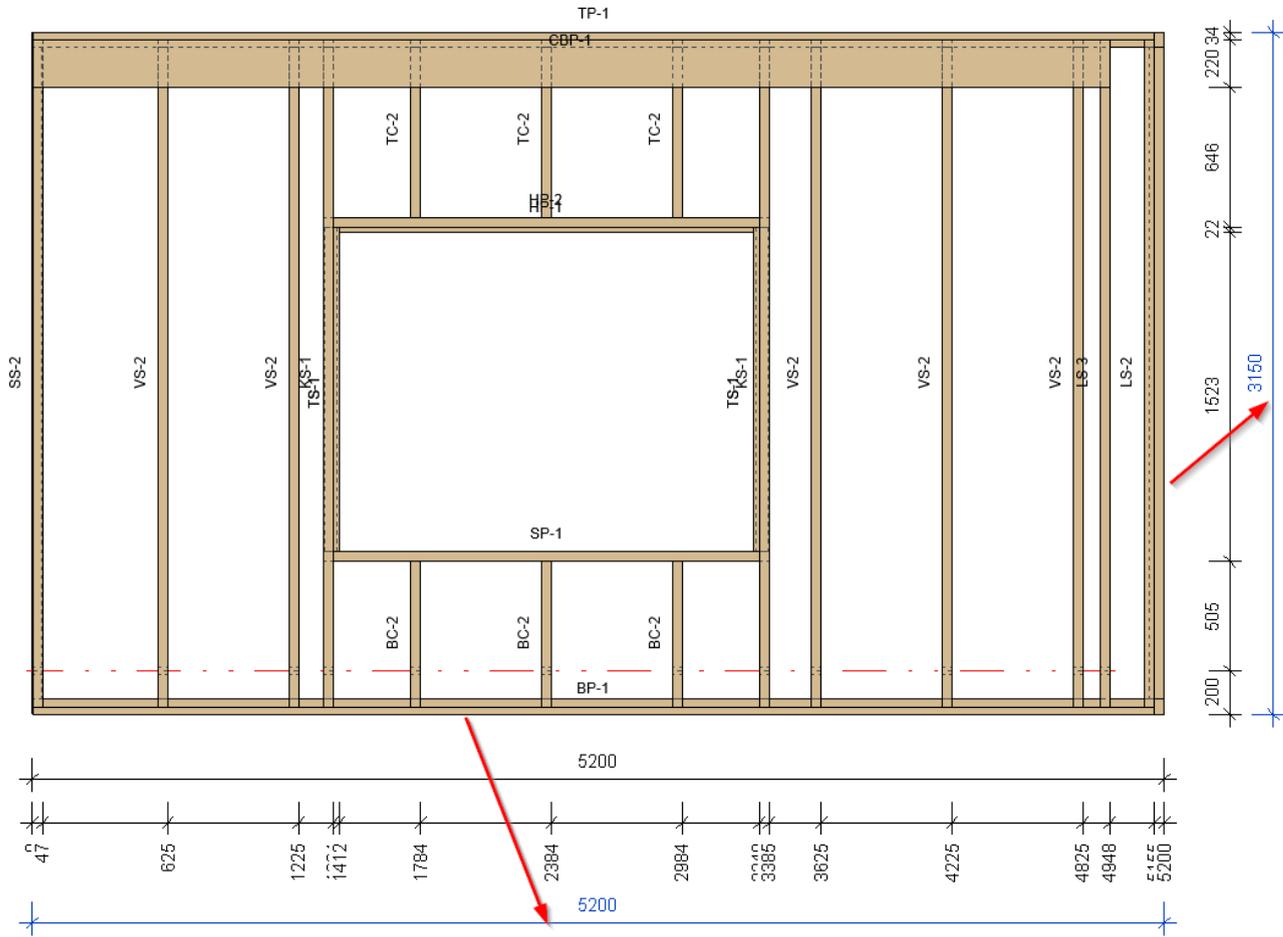
Here you can configure settings for total dimensions: where they should be placed, dimension type, and what text note value should be used.

First Dimension Offset – a factor multiplied by the value of the **Dimension Line Snap Distance** parameter to calculate distance of first dimension line from outer solid edge in the view.

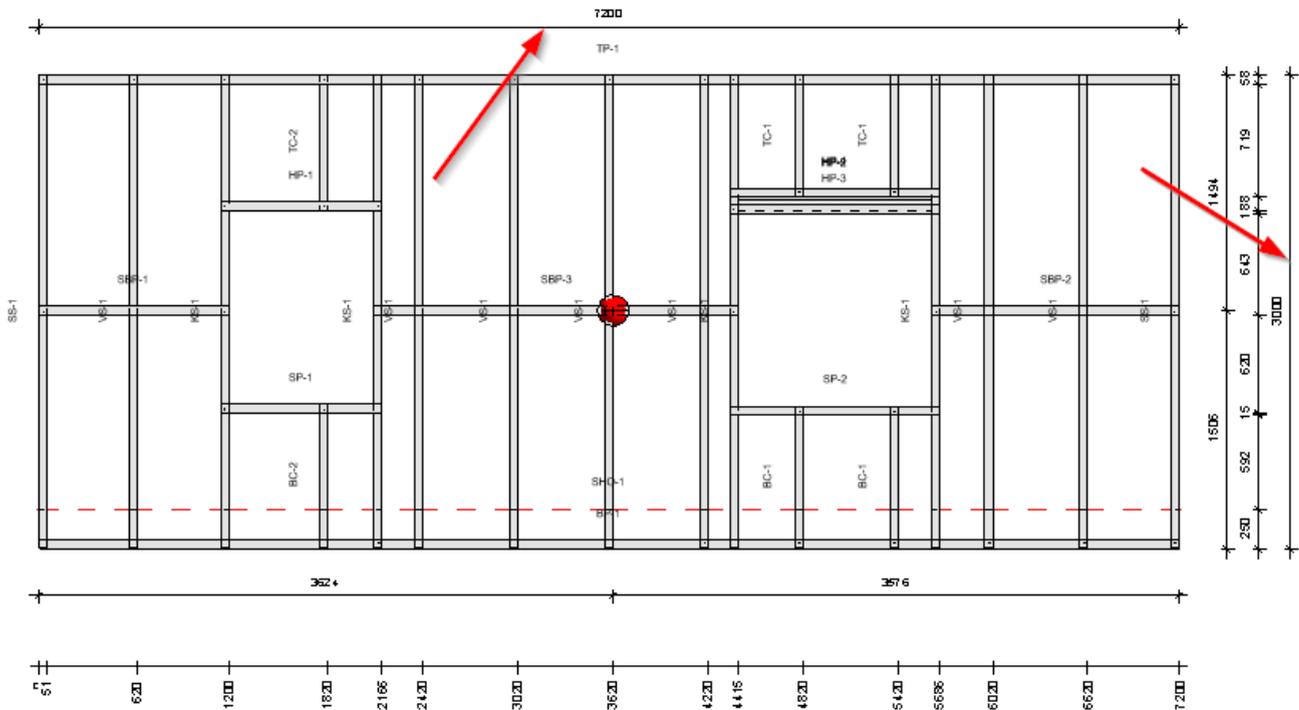


NOTE: If you change the **Configuration Settings**, don't forget to click on **Save** in the common configuration.

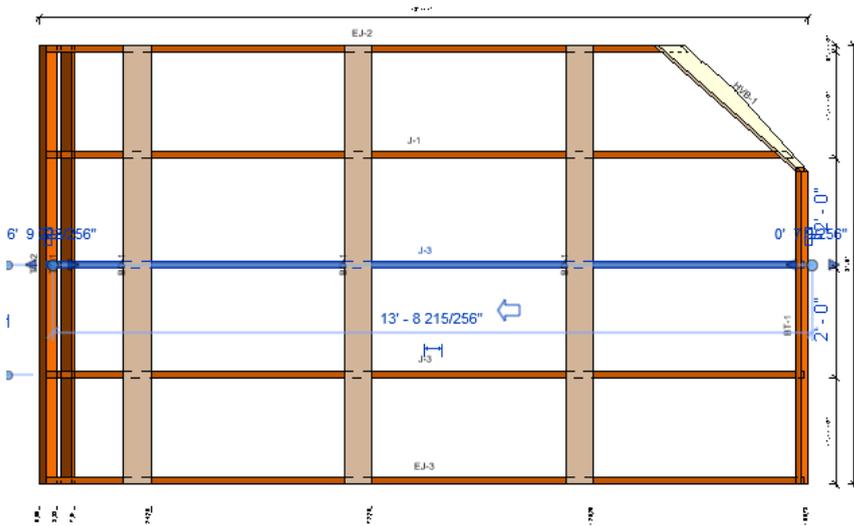
Example with wood frame:



Example with metal frame:



Example with wood roof:



Properties

L_Roof_Frame Common Joist
LMBR 2x12

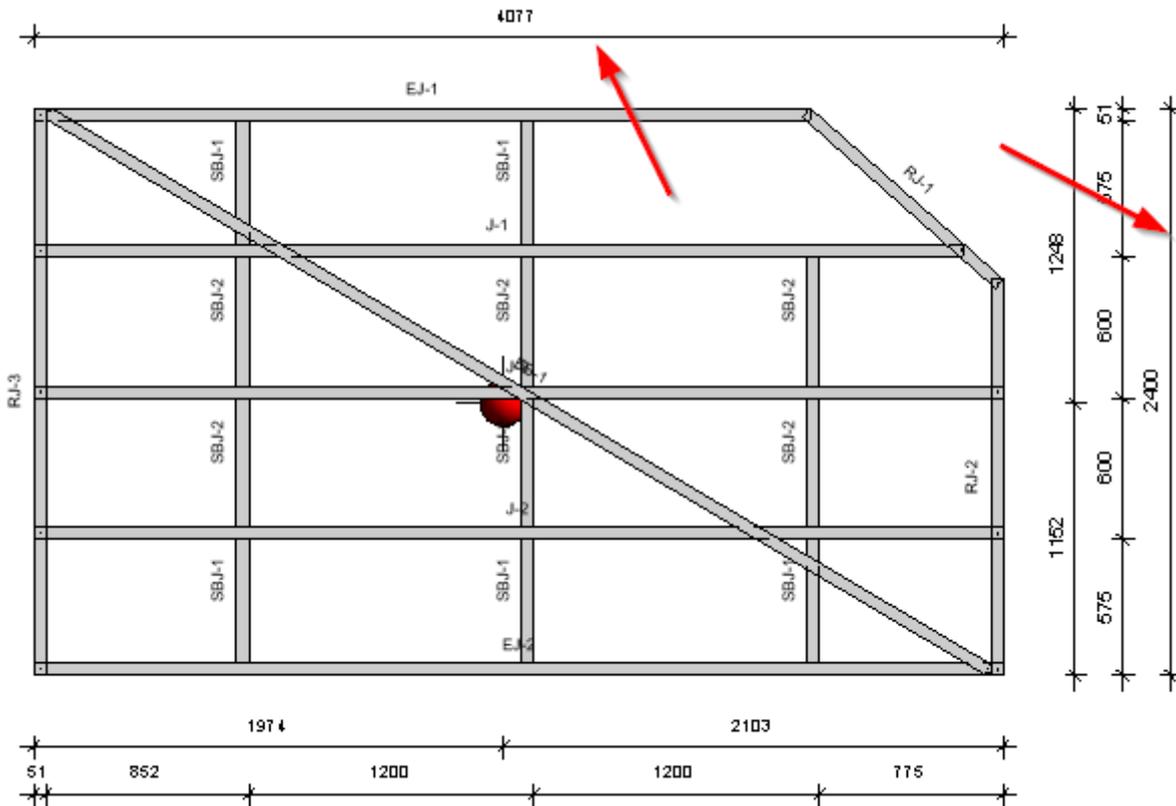
Structural Framing (Other) (1) Edit Type

Identity Data

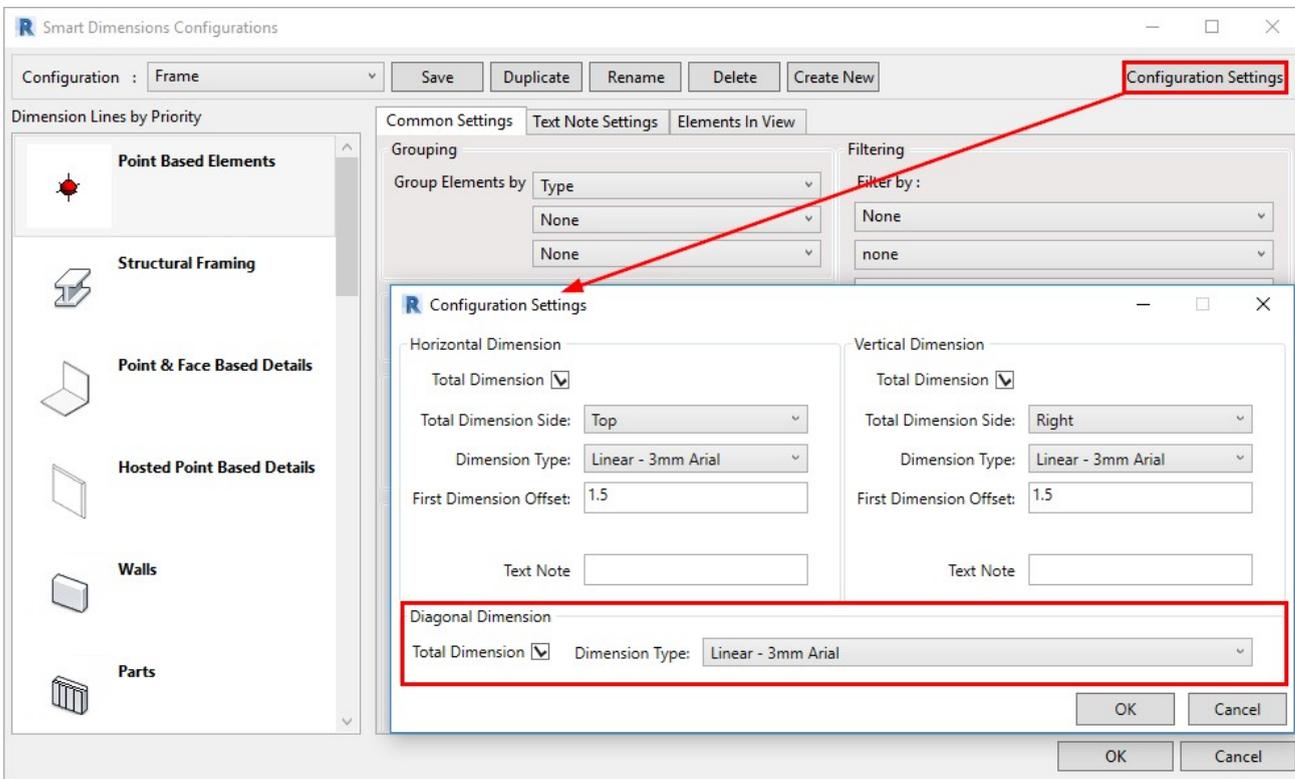
FM Number of Connect...	0.000000
Assembly Name	Roof Framing Panels_31
Image	
Comments	
Mark	
Framing Member Descr...	Common Joist
Framing Member Volume	1.51 CF
Framing Member Type	Joist
Framing Member Mark	J
FM SortMark	J-3
Framing Member	Common Joist
Framing	Roof
FM HostMemberSortM...	Roof Framing Panels_31
Framing Layer	Frame
Framing Member Mass	0.0007 lbm
CNC Part Number	

Properties help Apply

Example with metal roof:

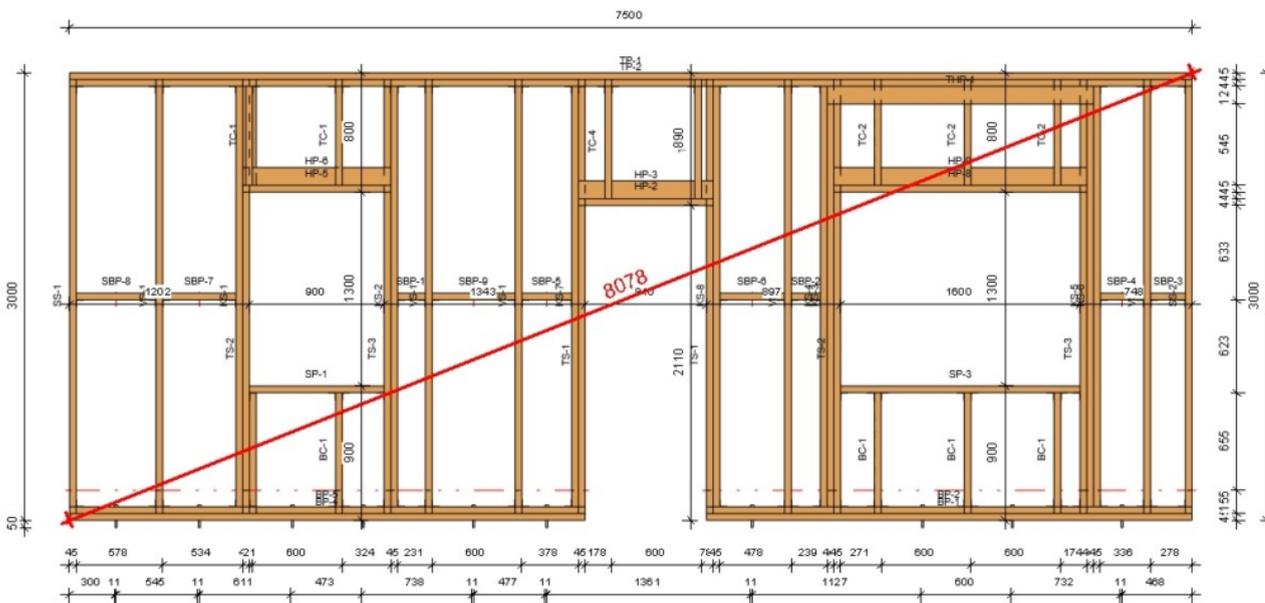


Diagonal Dimension - Total Dimension - Adds a total diagonal dimension.



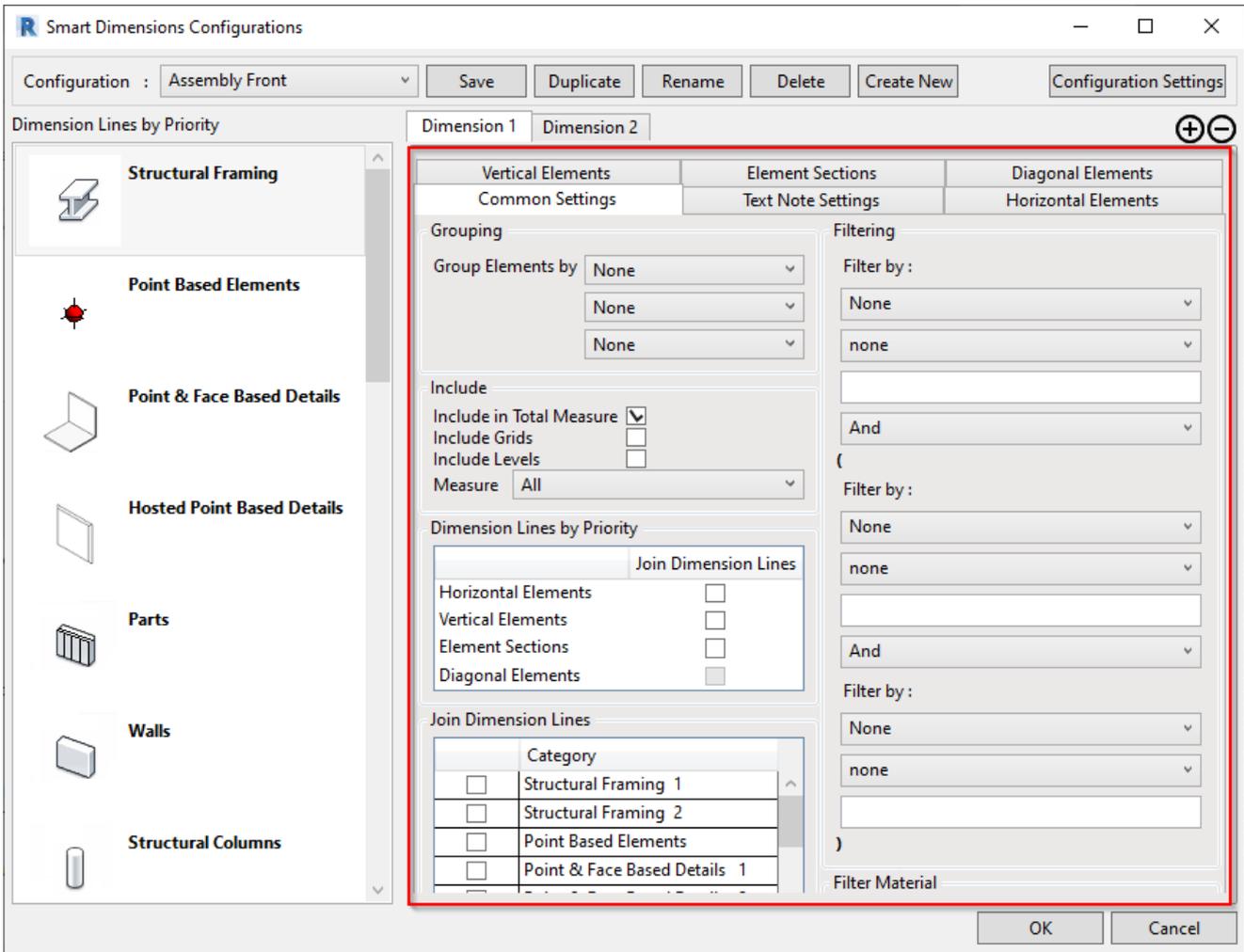
(<https://agacad.com/wp-content/uploads/2021/02/9-add-a-diagonal-Total-Dimension-with-the-help-of-Smart-Dimensions.jpg>)

Example with wood wall:

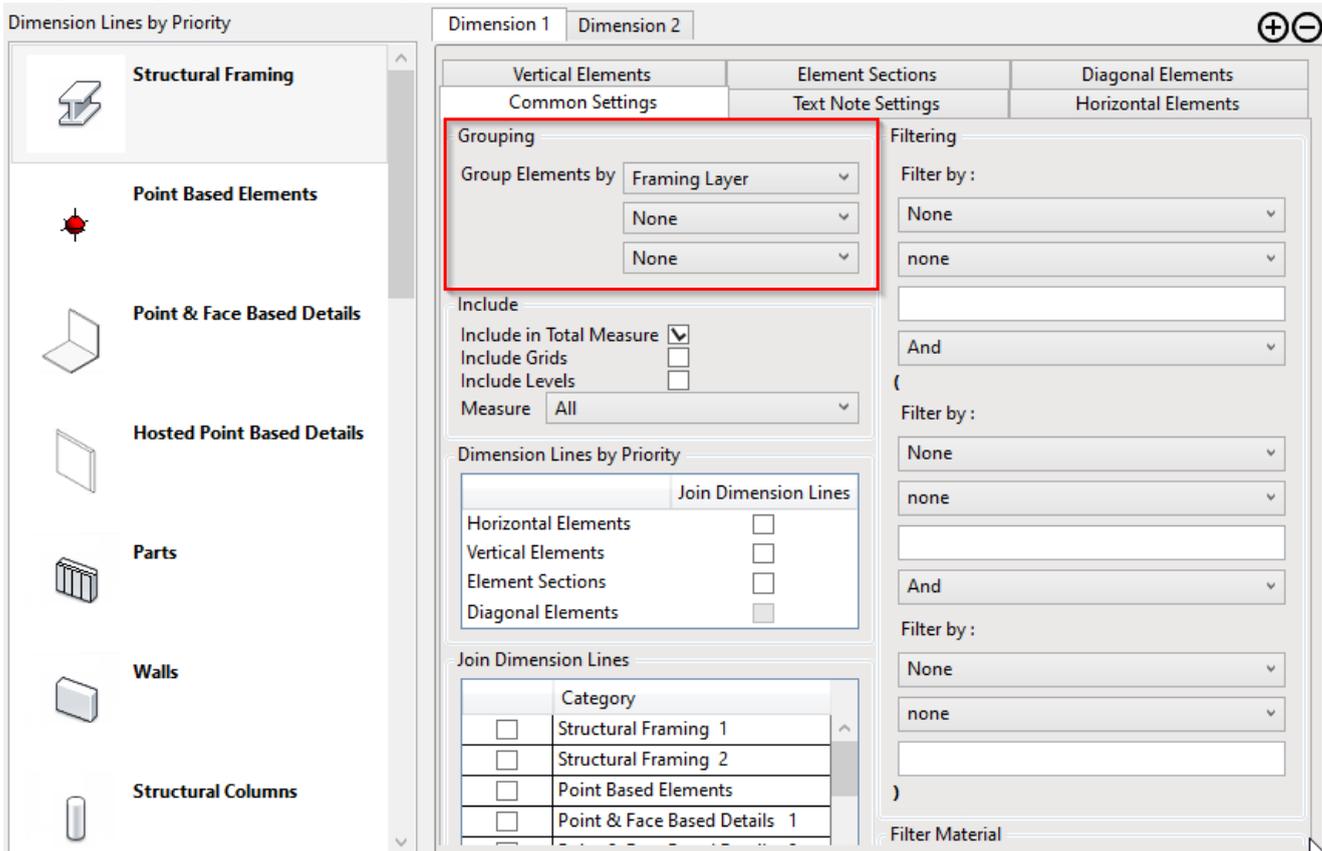


(<https://agacad.com/wp-content/uploads/2021/02/10-total-diagonal-dimension.jpg>)

Dimension settings

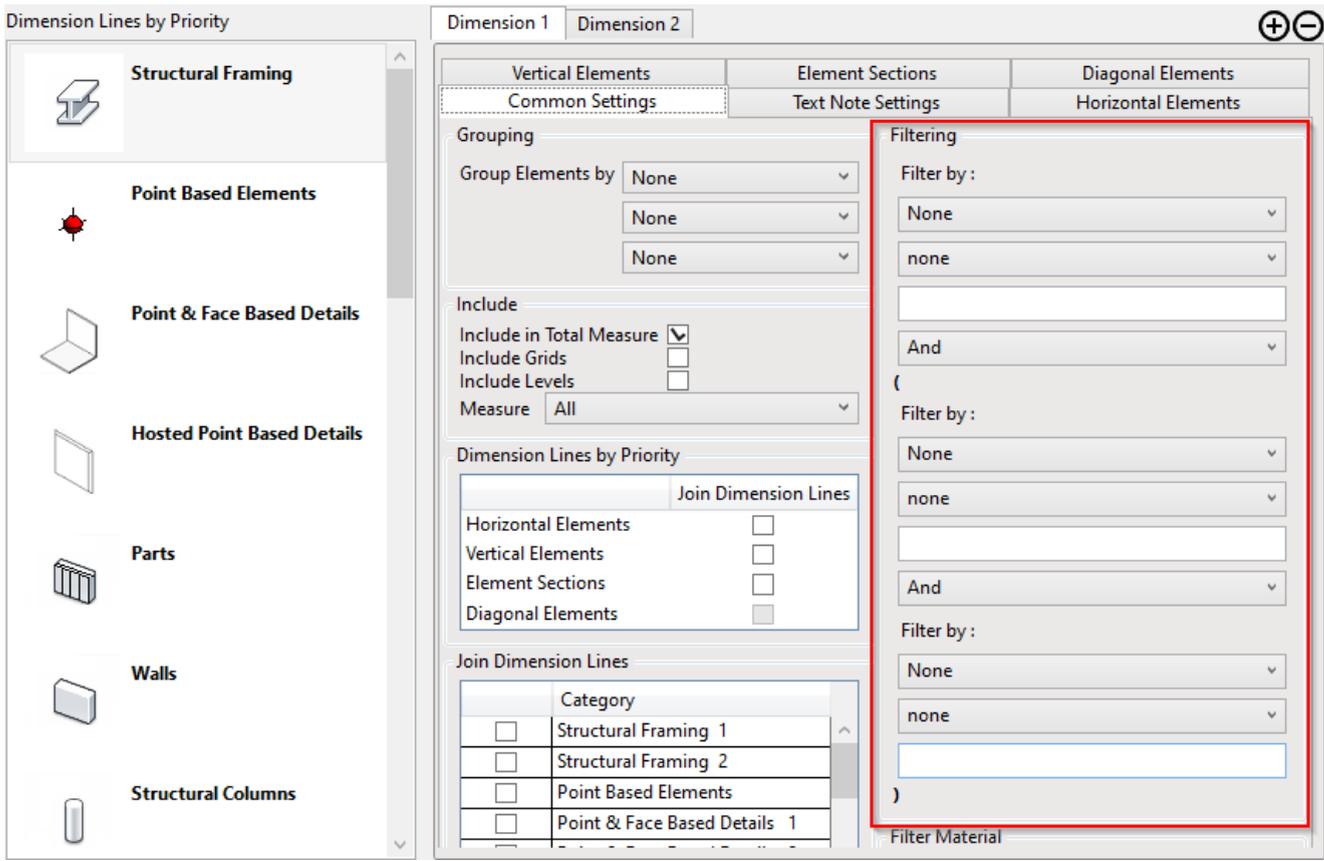


Grouping – groups dimension lines by selected parameter. E.g. If you group by Framing Layer, then elements from every framing layer will be in a separate dimension line.



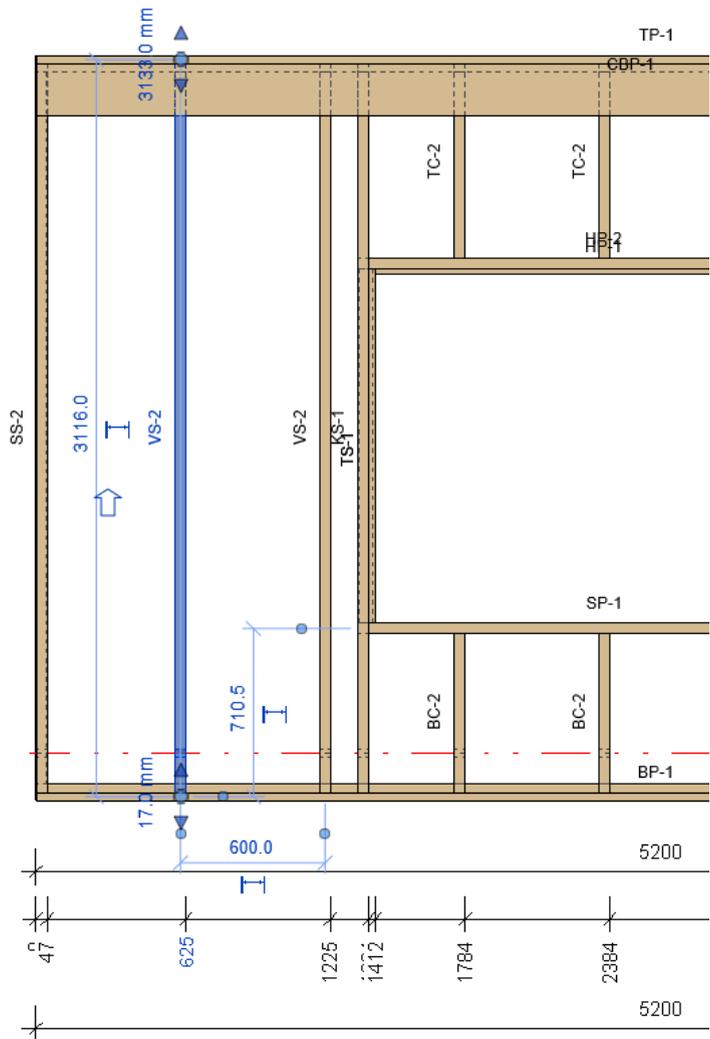
Filtering – you can filter what should be dimensioned by rules in this tab. It is possible to use different parameters from families.

At the bottom there is also an option to filter by the **Material by Model Behavior** parameter, which is inside the family.



*Example with wood frame: Here, dimensions are added automatically into frames where **Framing Layer = Frame**:*

Properties	
	M_Wall_Frame Stud LMBR 45x195
Structural Framing (Other) (1) Edit Type	
Elevation at Bottom	Varies
Identity Data	
Build in Place	<input type="checkbox"/>
FM Number of Connectors	0.000000
Link to Connected Wall	<input type="checkbox"/>
Assembly Name	W-4
Image	
Comments	
Mark	
Framing Member	Stud
Framing Member Type	Stud
Framing Member Cut Length	3082.0
Framing	Wall
Framing Member Description	Stud
FM SortMark	VS-2
Framing Layer	Frame
Framing Member Mark	VS
FM HostMemberSortMark	W-4
Framing Member Mass	9.199 kg
Framing Member Volume	0.026 m ³
FM Module Type	
FM Module Mark	
FM Module Preassembled	<input checked="" type="checkbox"/>
CNC Part Number	
CNC Part Name	
CNC Part Position	
FM Wood Grade	
FM Wall Layer	



Example with metal frame: Here, dimensions are added automatically into frames where **Framing Layer = Frame**:

Properties

M_MF Stud-Joist
C10251-10

Structural Framing (Other) (1) Edit Type

Identity Data

FM HostSortMark	
FM Number of Connectors	0.000000
Assembly Name	W-4
Image	
Comments	
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-4
Framing Member Mass	5.278 kg
Framing Member Volume	0.001 m ³
Link to Connected Wall	<input checked="" type="checkbox"/>
Build in Place	<input checked="" type="checkbox"/>

[Properties help](#) Apply

Example with metal roof: Here, dimensions are added automatically into frames where **Framing Layer = Frame**:

Properties

M_MF Stud-Joist
C20351-15

Structural Framing (Other) (1) Edit Type

Image

Comments

Mark

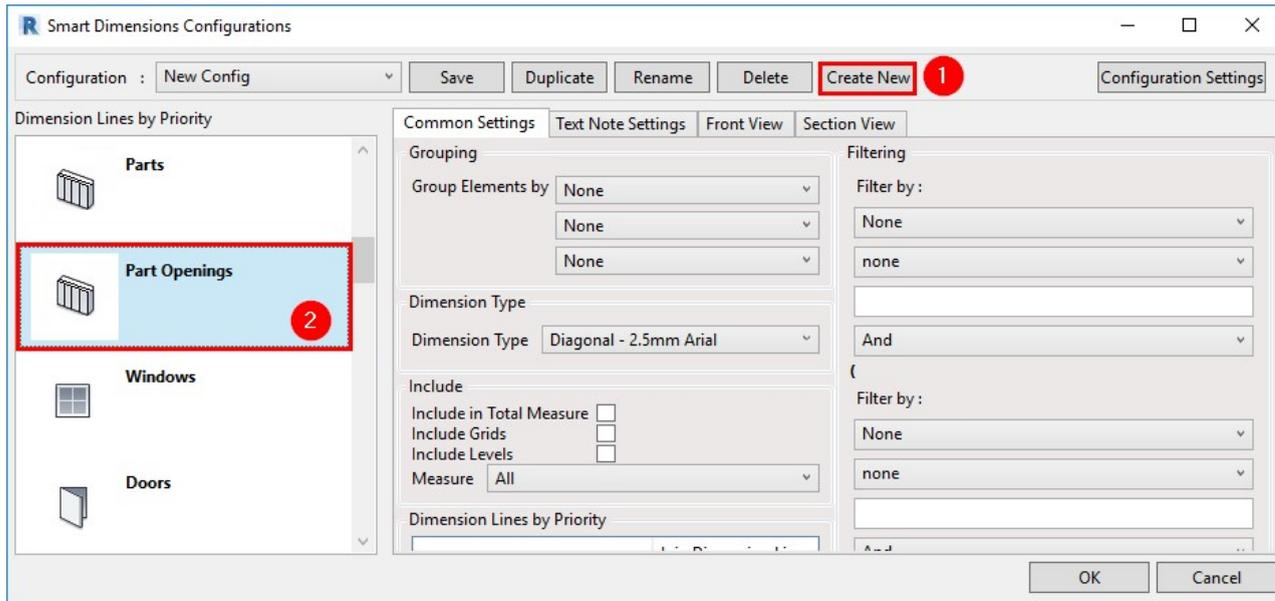
Framing Member	Common Joist
Framing Member Type	Joist
Framing Member Cut Length	4074.2
Framing	Roof
Framing Member Description	Common Joist
FM SortMark	J-2
Framing Layer	Frame
Framing Member Mark	J
FM HostMemberSortMark	Roof 203 - M_Roof...
Framing Member Mass	15.864 kg
Framing Member Volume	0.0020 m ³
CNC Part Number	
CNC Part Name	

[Properties help](#) Apply

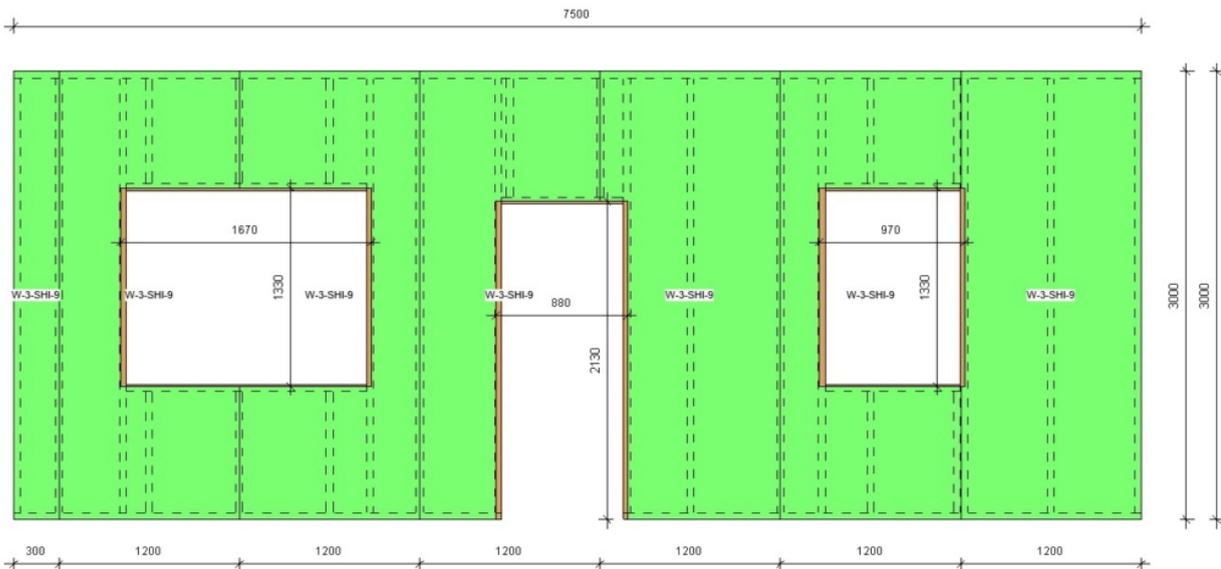
Dimension Lines by Priority – here you can arrange the order of how close the dimension line will be to the Host element. Click and drag the selected type of dimension lines to the top or bottom.

Part Openings

A new tab named 'Part Openings' will appear only after creating a new dimensioning configuration:



In this example, part openings have their individual dimensions that are not tied to Structural Framing elements:



(<https://agacad.com/wp-content/uploads/2021/01/26.jpg>).

For custom/complex dimensioning, training is needed; please contact us at support@agacad.com.