

REVIT PURE LIVE #036

Mastering Revit Dimensions



DIMENSION PACKAGE

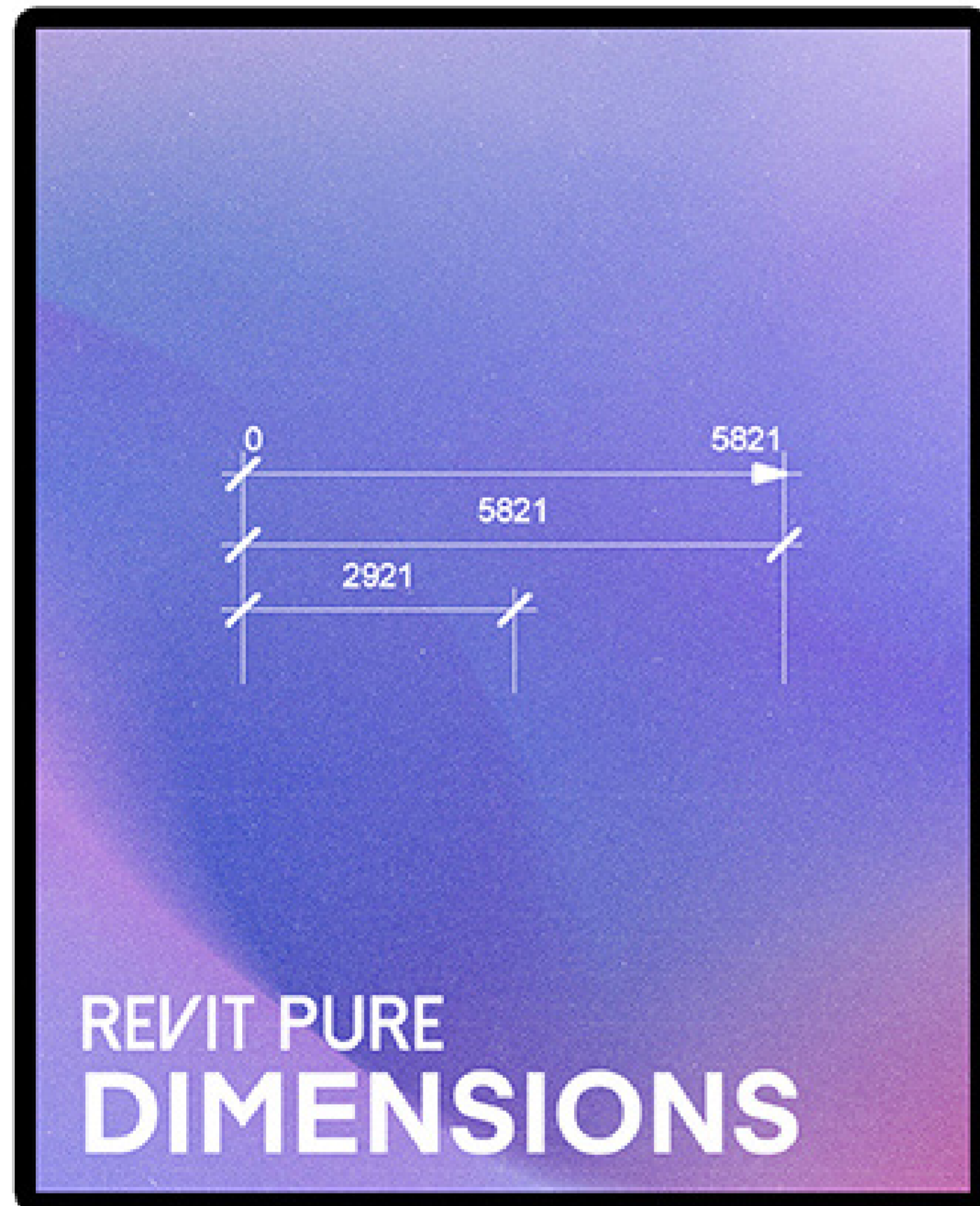
- eBook + DYNAMO SCRIPTS + SAMPLE

-AVAILABLE NOW

- ORDER AT:

learn.revitpure.com/dimensions

revitpure.com/bundle



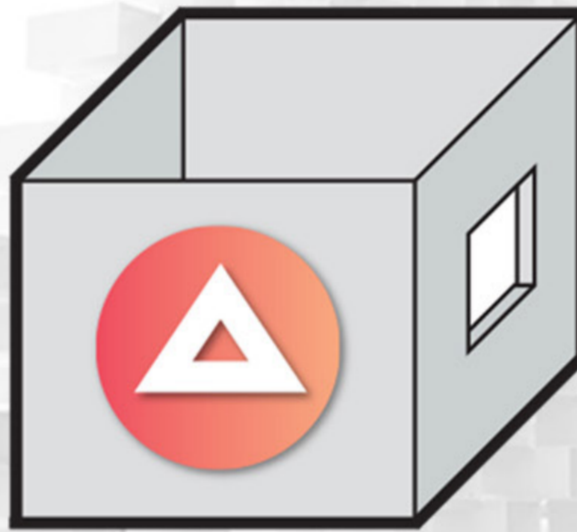
REVIT PURE LIVE #036
NICOLAS CATELLIER

LEARNING PACKAGES FOR REVIT

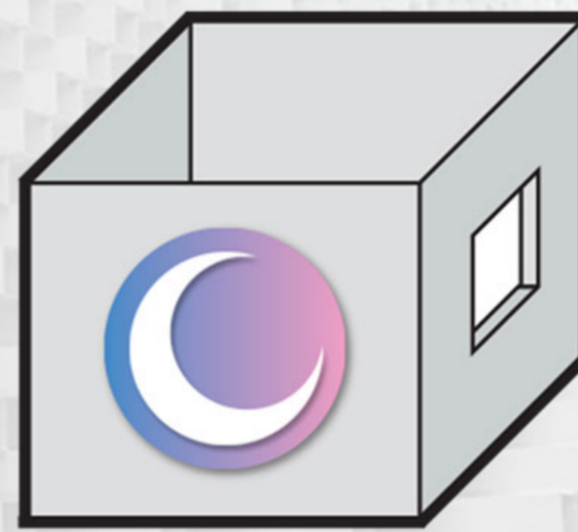
25% OFF + BONUS
UNTIL JUNE 6TH



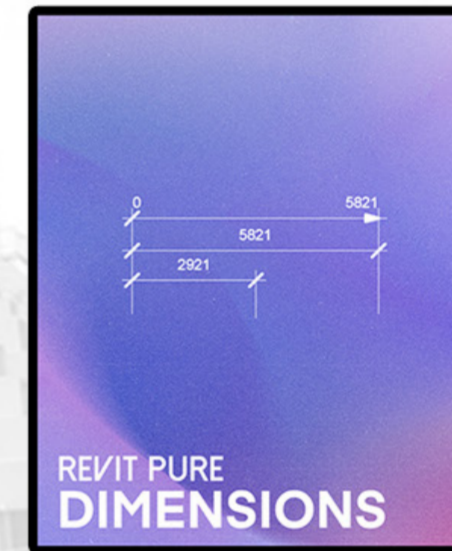
BASICS



DESIGN



MANAGE



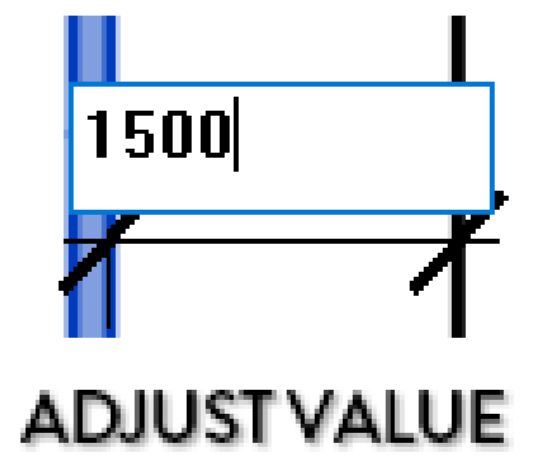
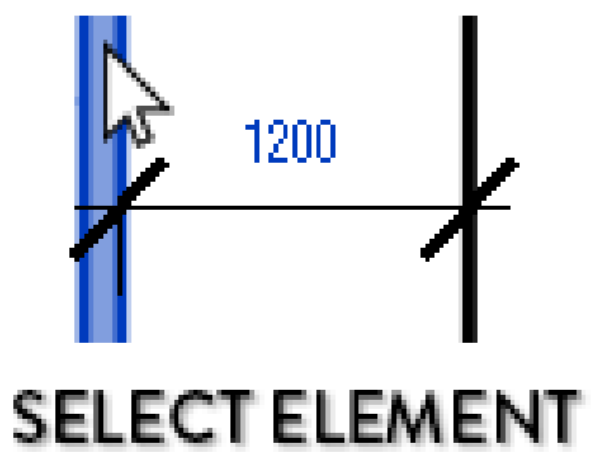
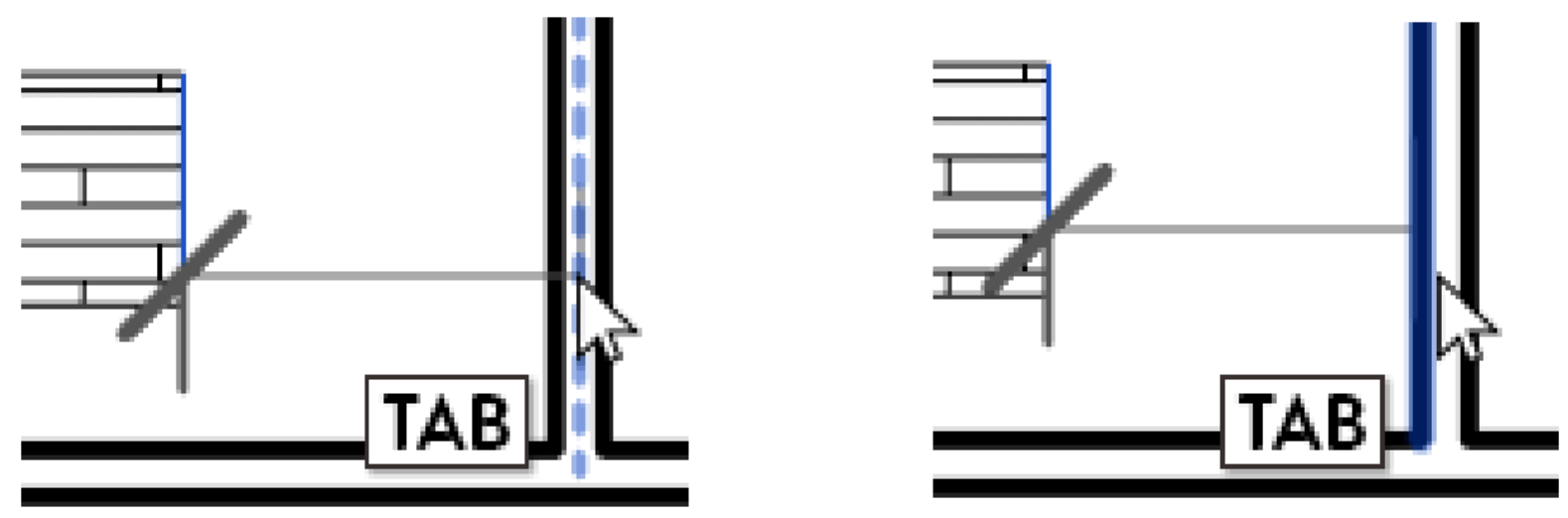
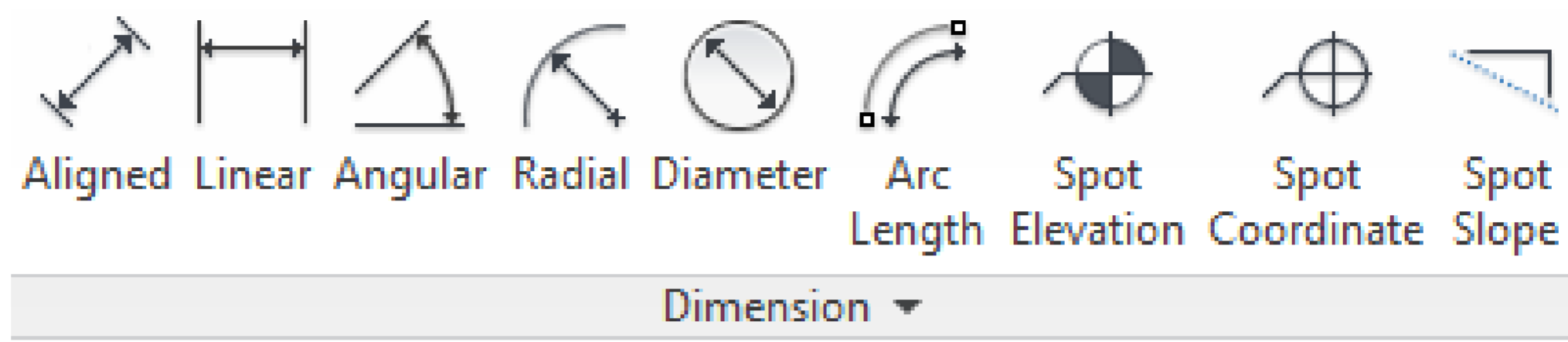
BONUS:
DIMENSION

revitpure.com/bundle

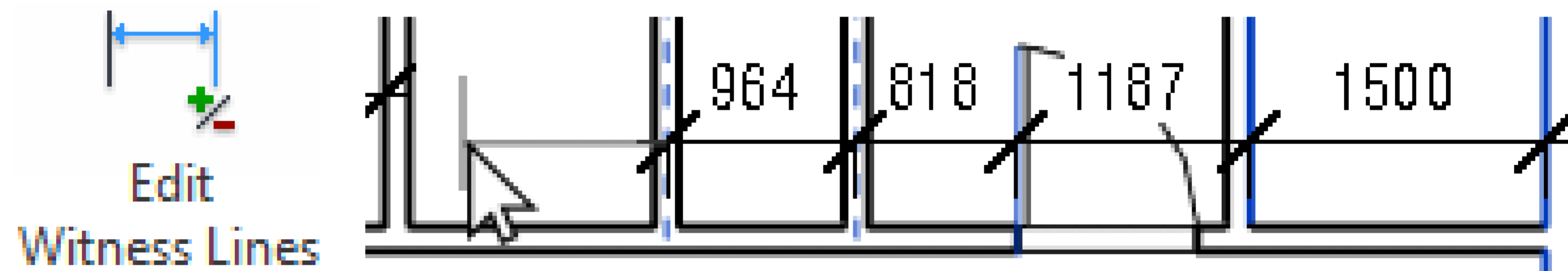


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NICOLAS CATELLIER

BASIC FEATURES

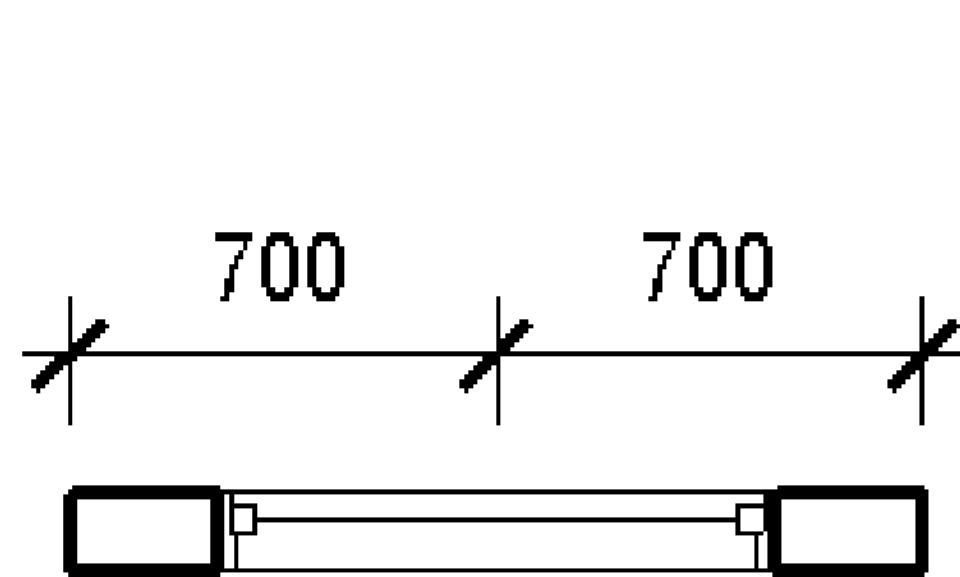


EDIT WITNESS LINES

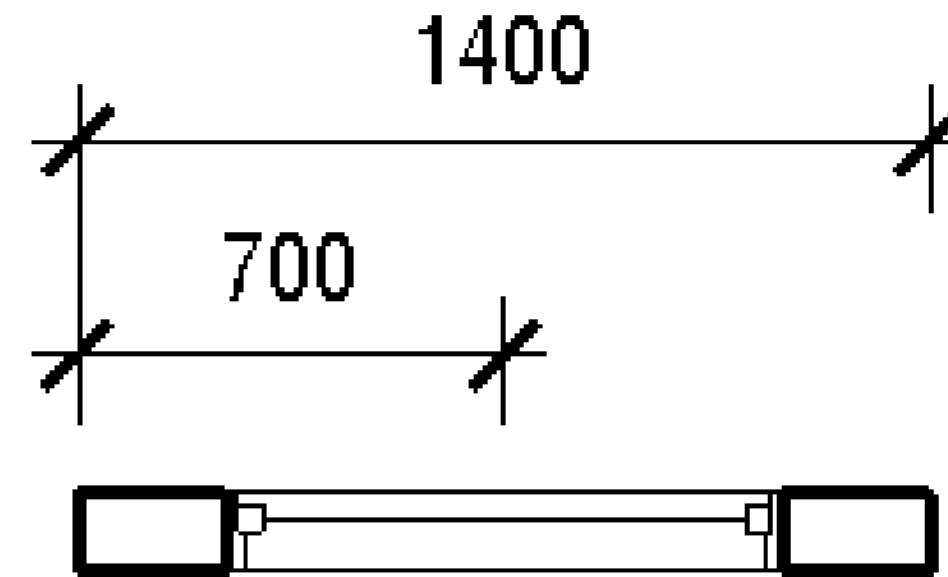


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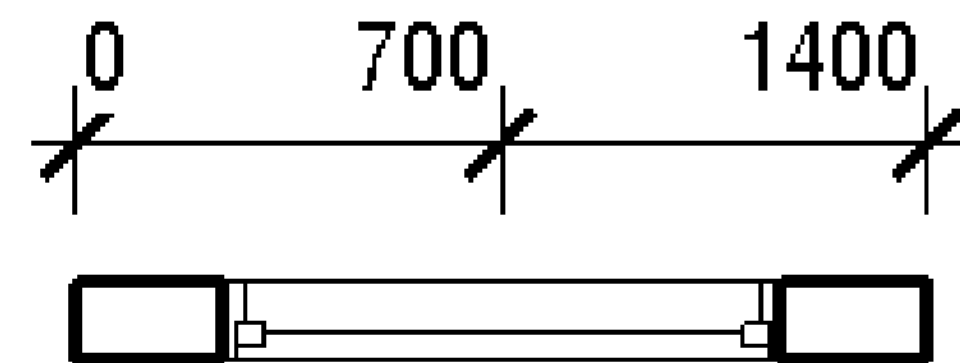
CONTINUOUS VS BASELINE VS ORDINATE



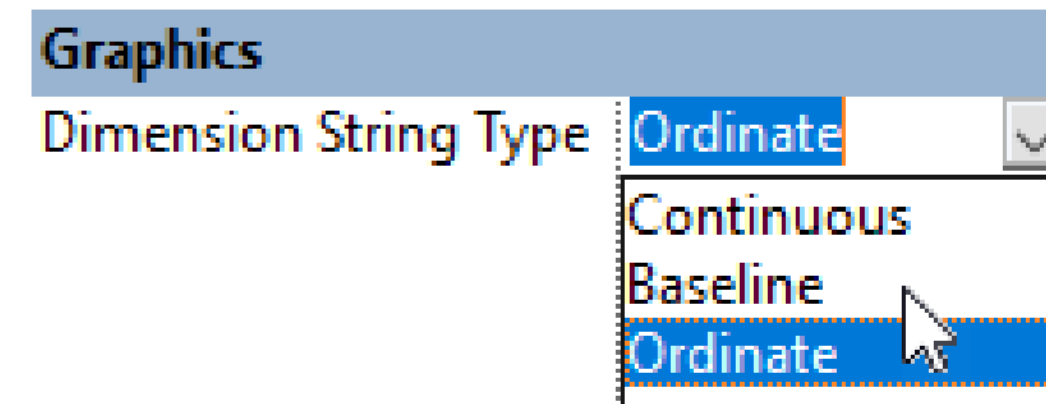
CONTINUOUS



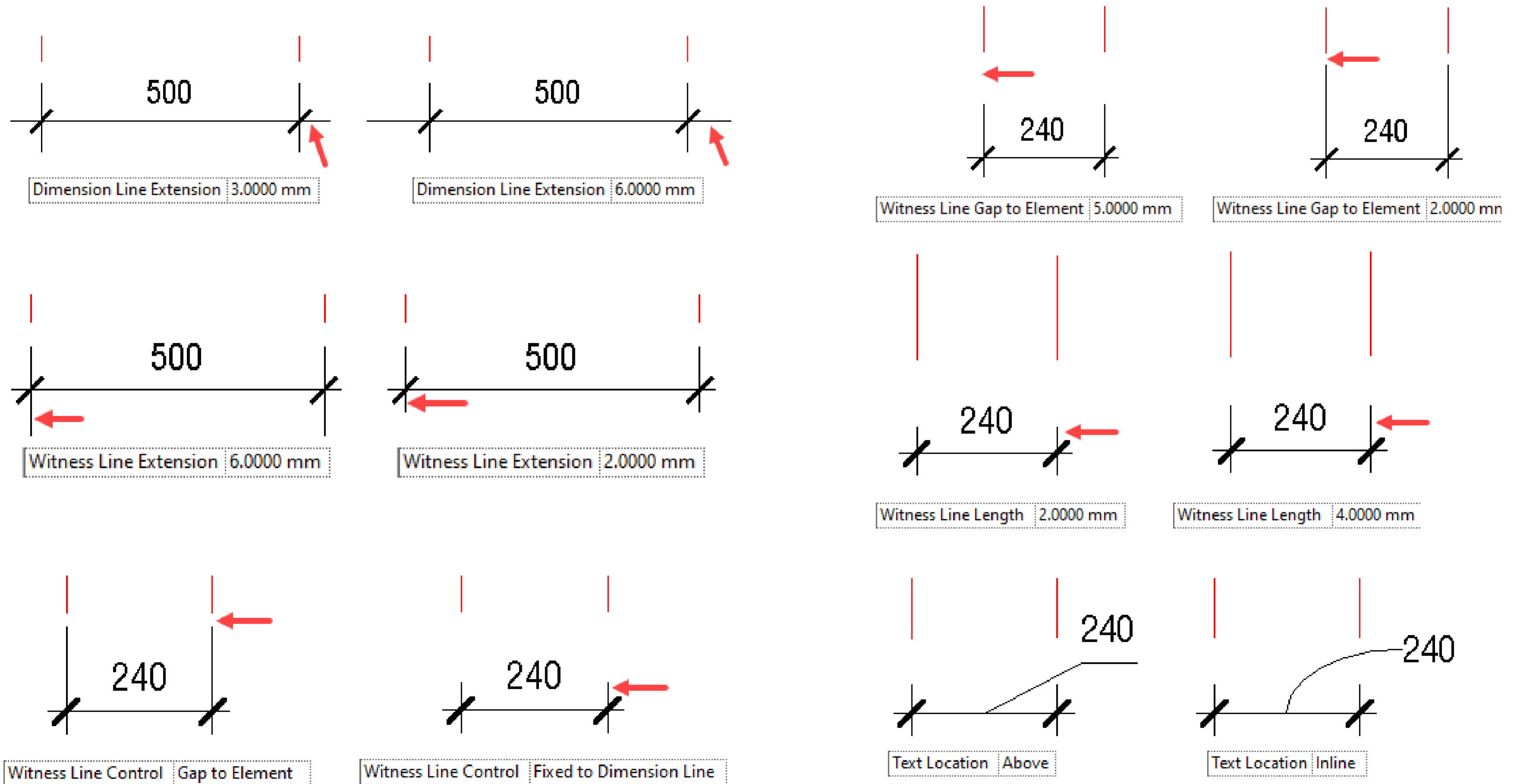
BASELINE



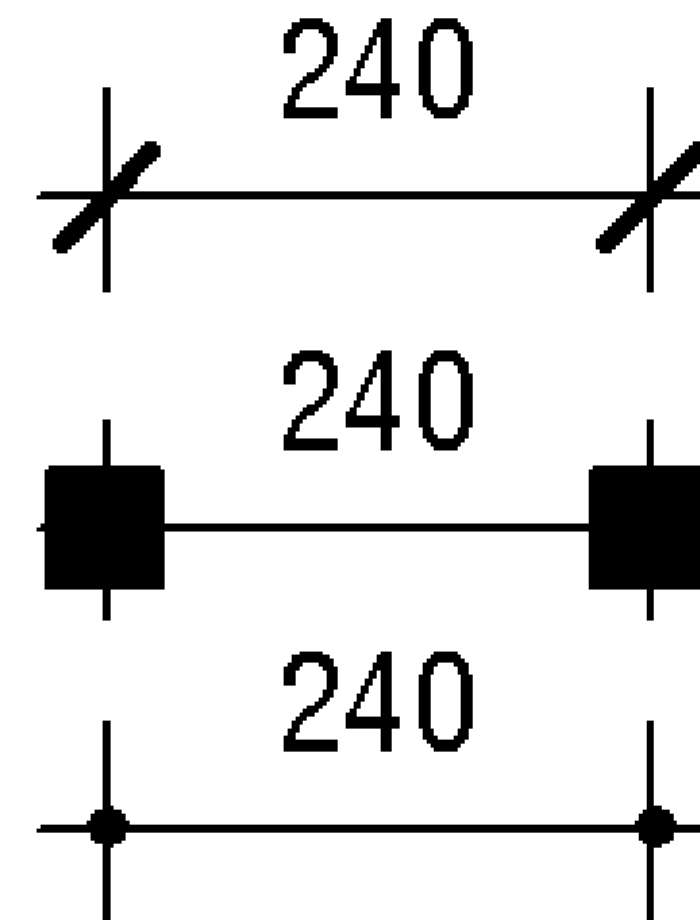
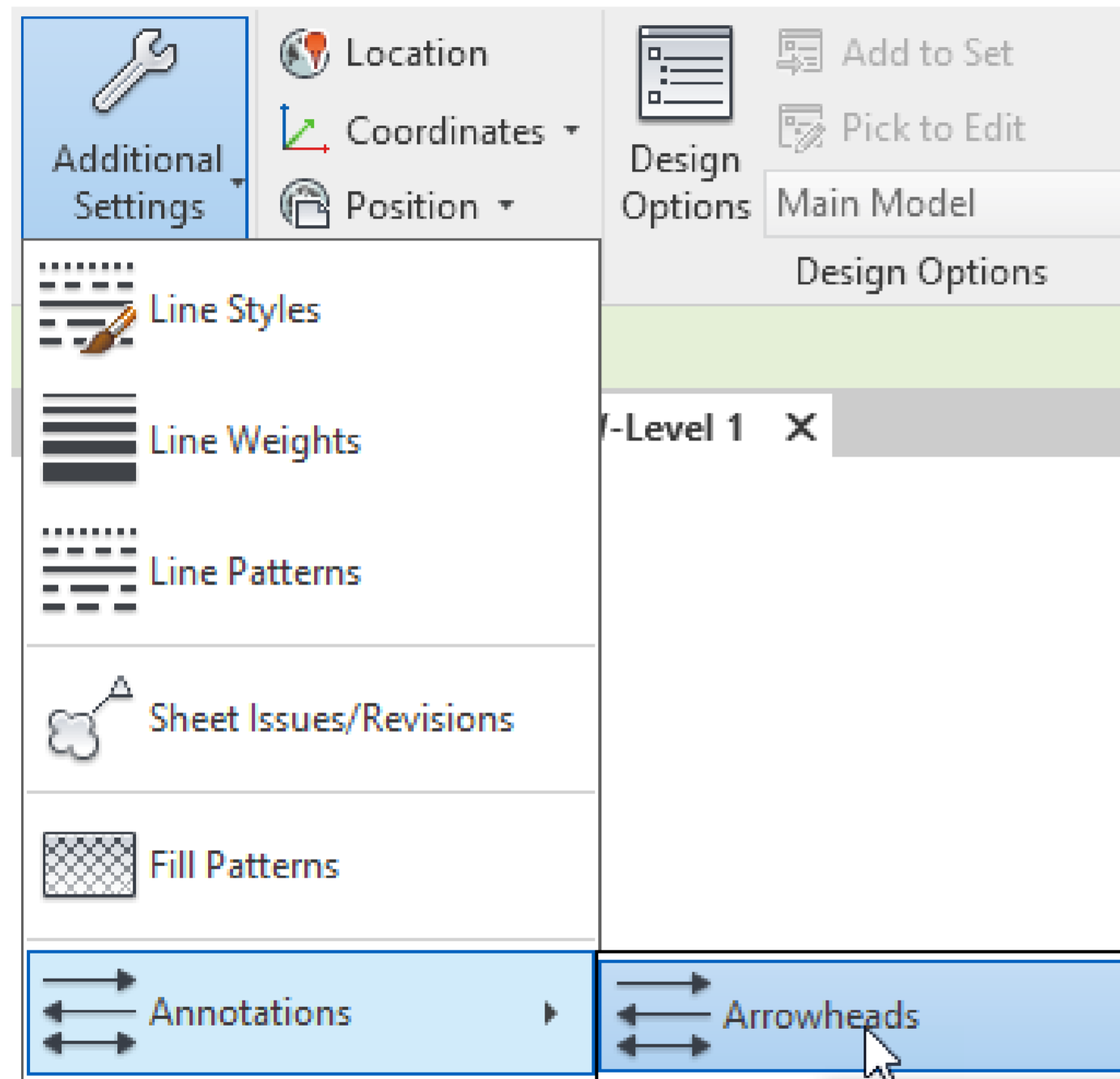
ORDINATE



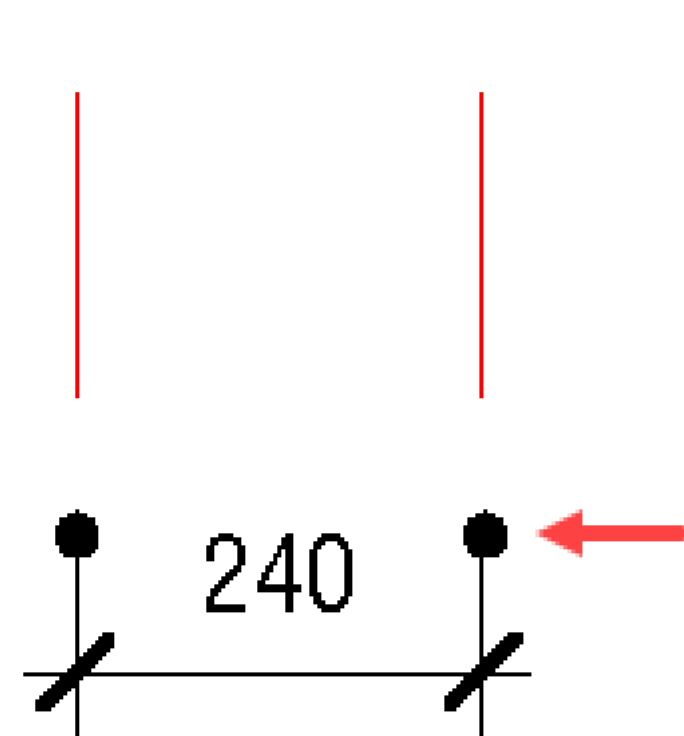
WITNESS & DIMENSION LINES OPTIONS



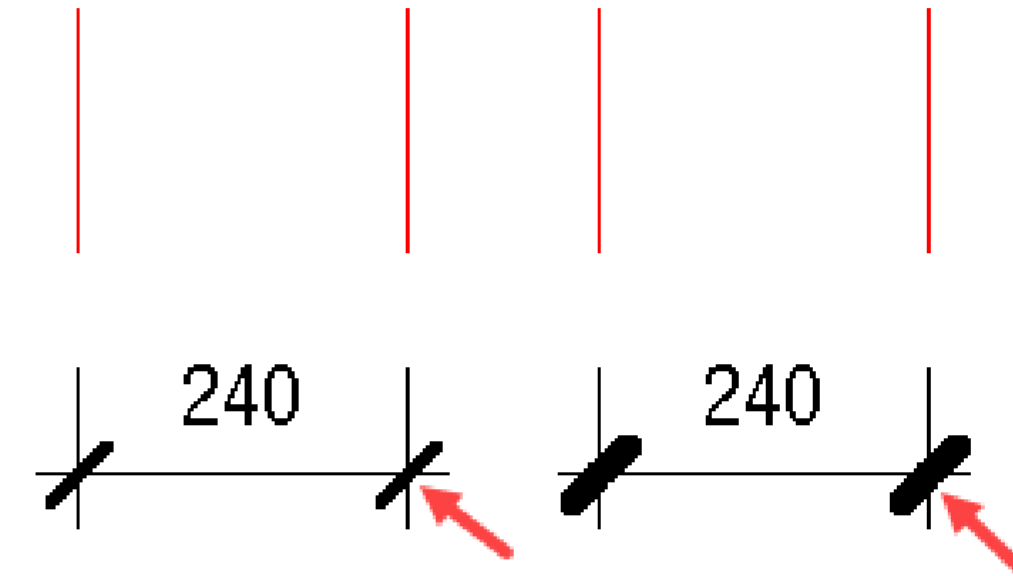
TICK MARK STYLES



SET TICK MARKS

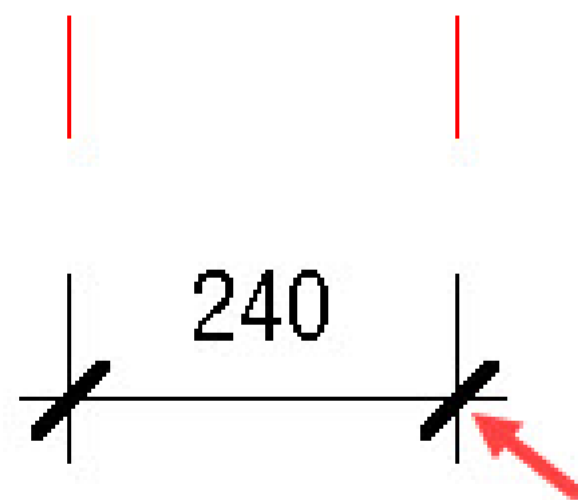


Witness Line Tick Mark Filled Dot 0.5mm

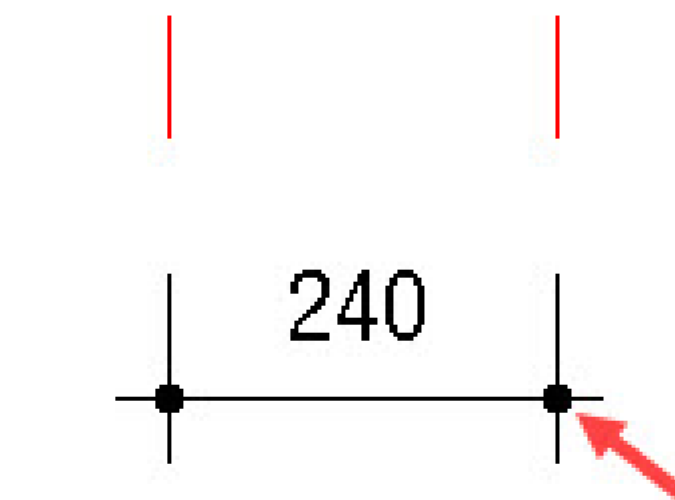


Tick Mark Line Weight 4

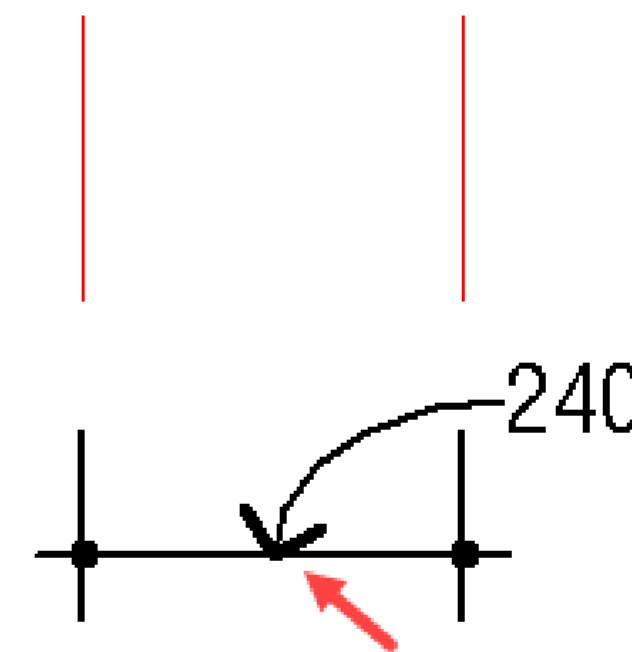
Tick Mark Line Weight 6



Tick Mark Diagonal 2mm



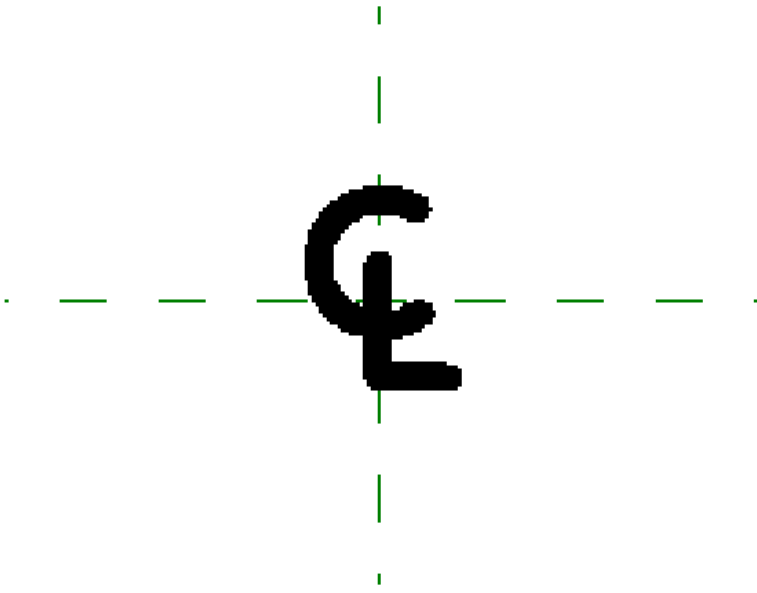
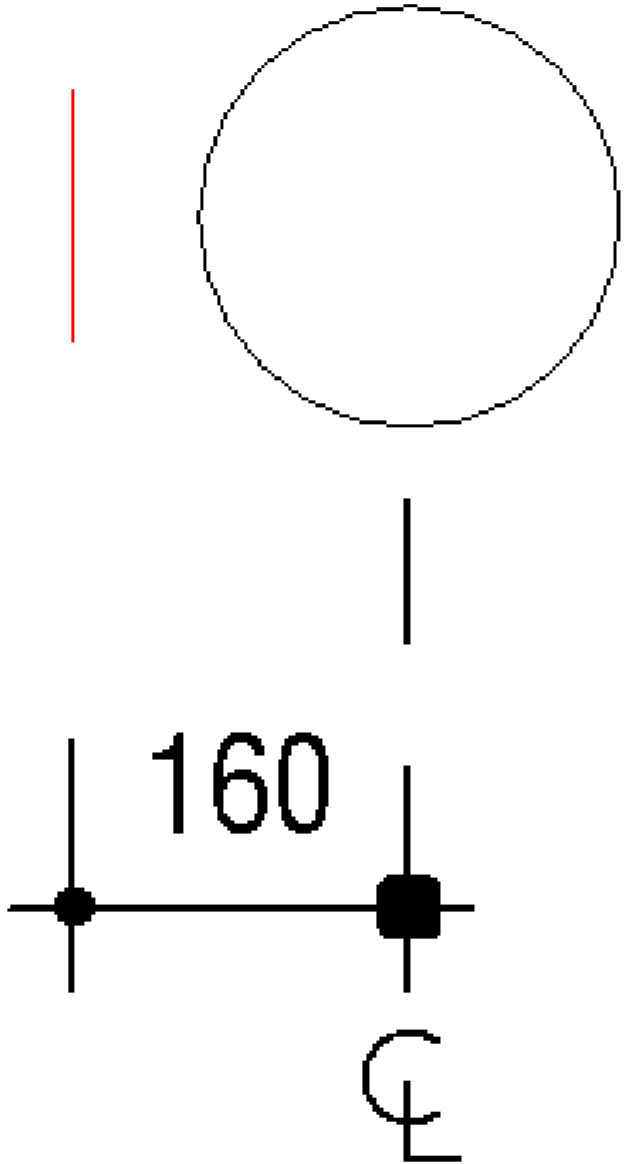
Tick Mark Filled Dot 0.5mm



Leader Tick Mark Arrow Open 90 Degree 1.25mm



SET CENTERLINE OPTIONS

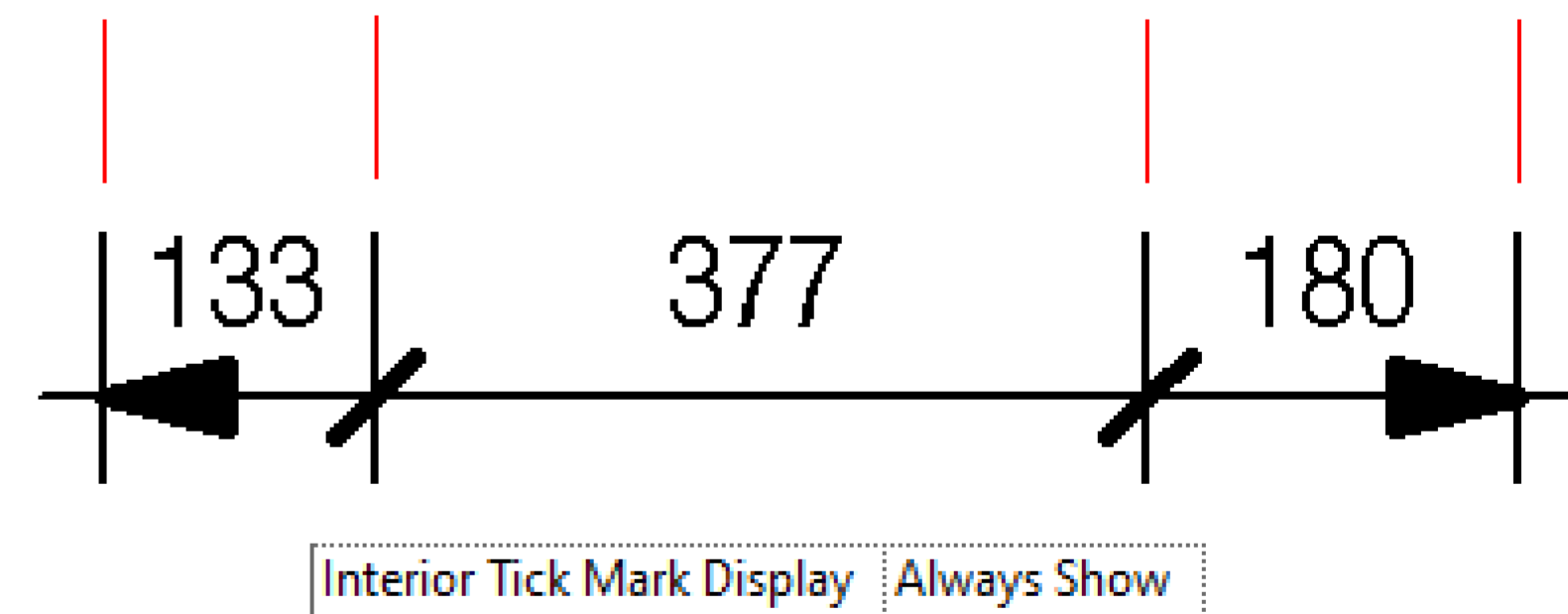
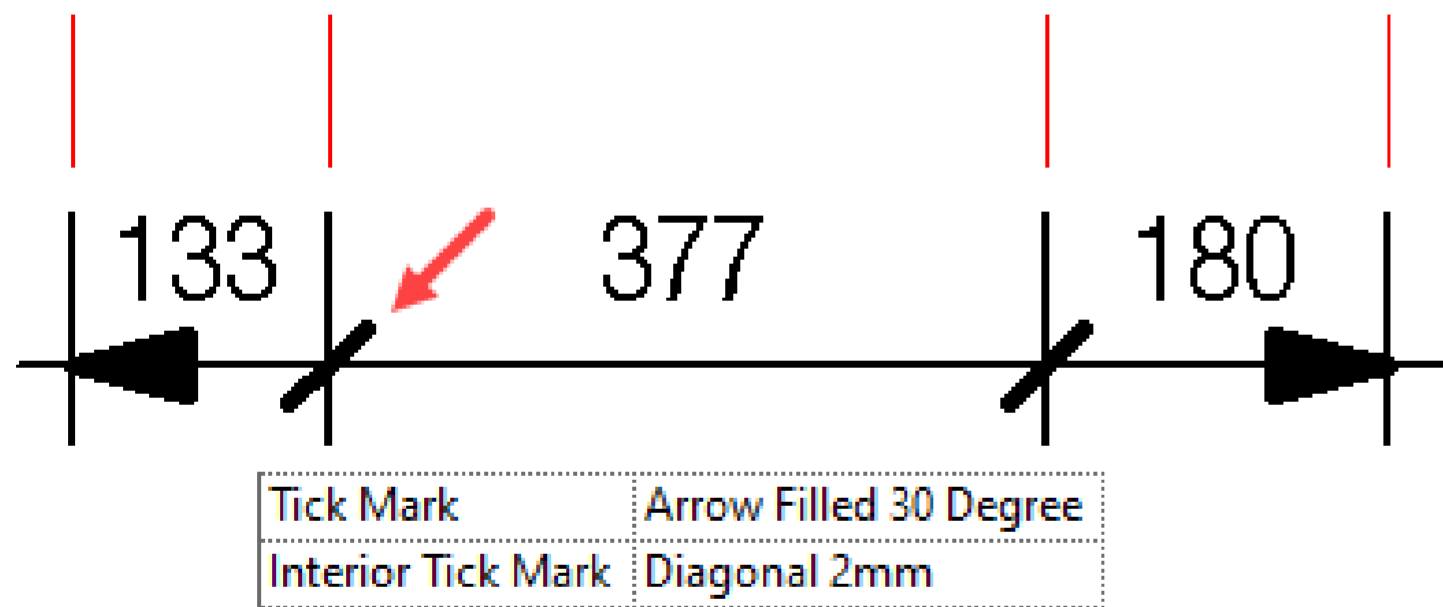
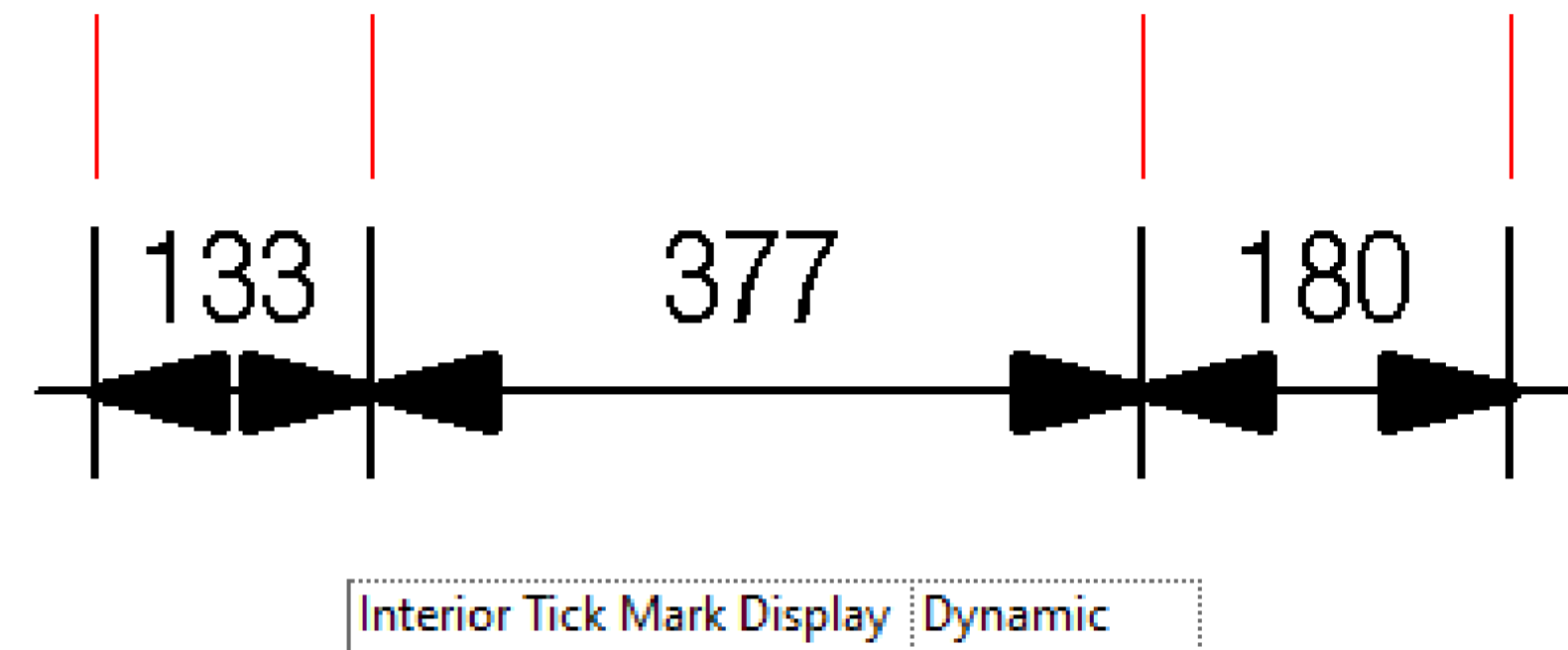
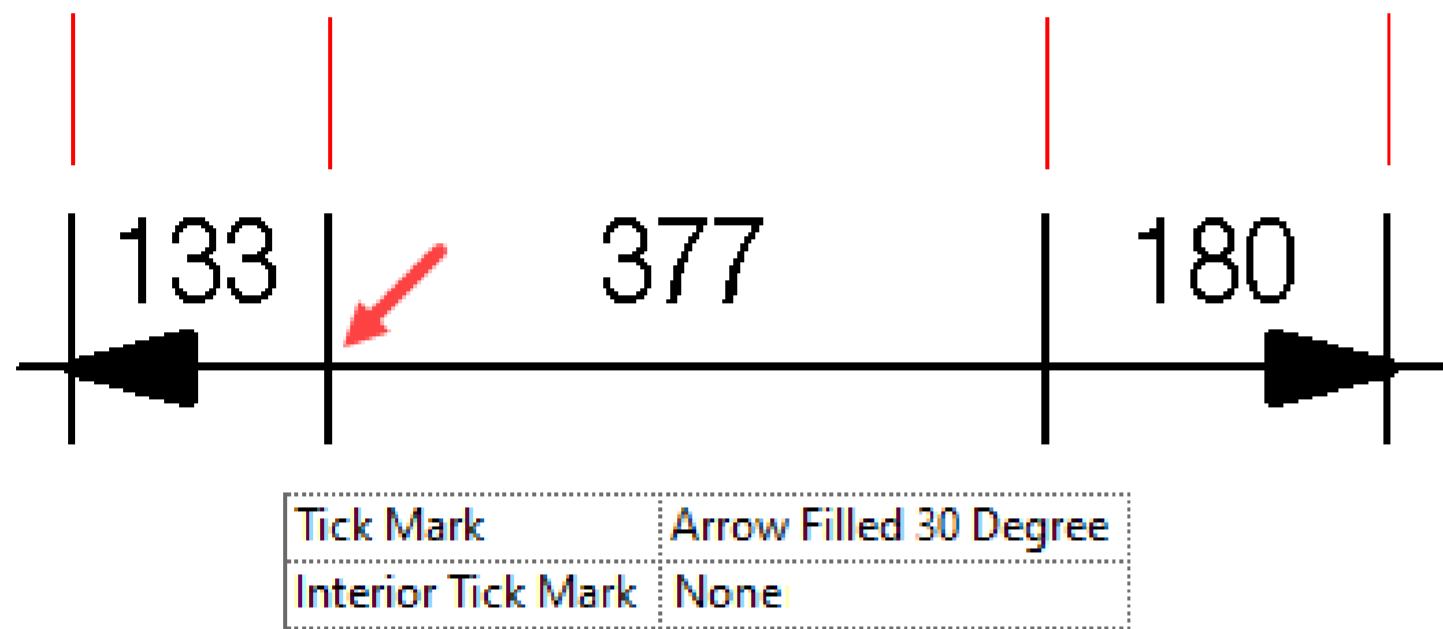


Centerline Symbol	RP_ANN_Centerline : RP_Centerline
Centerline Pattern	Dash
Centerline Tick Mark	Filled Box 1mm

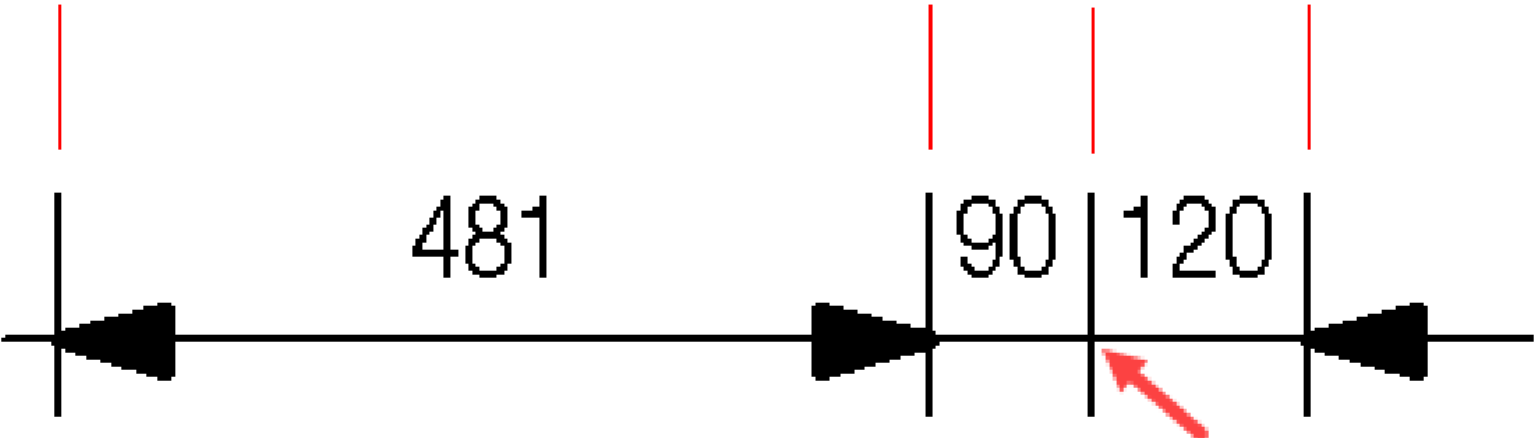
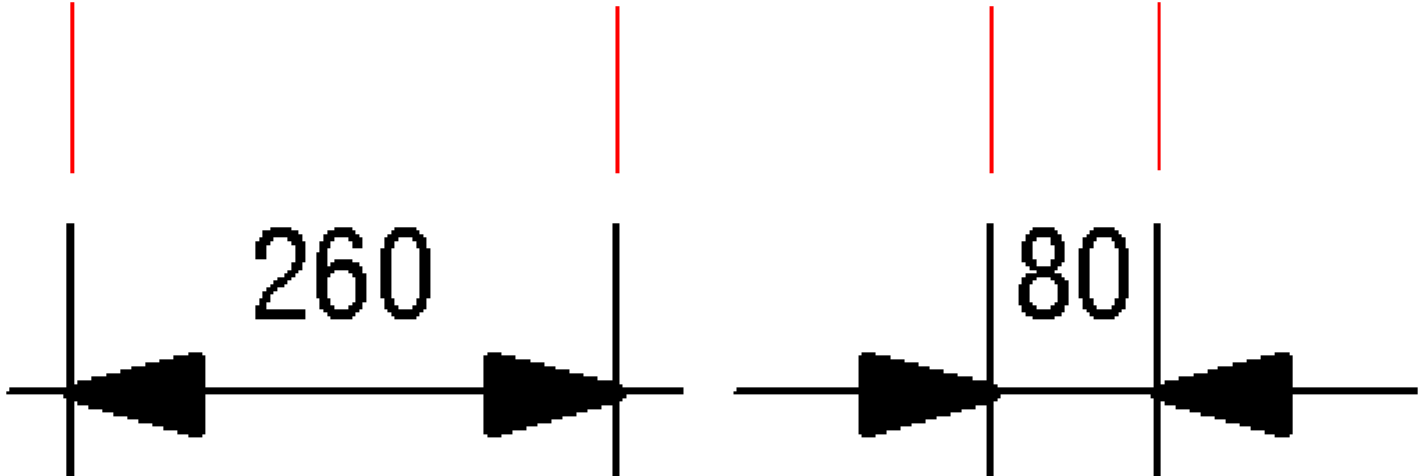


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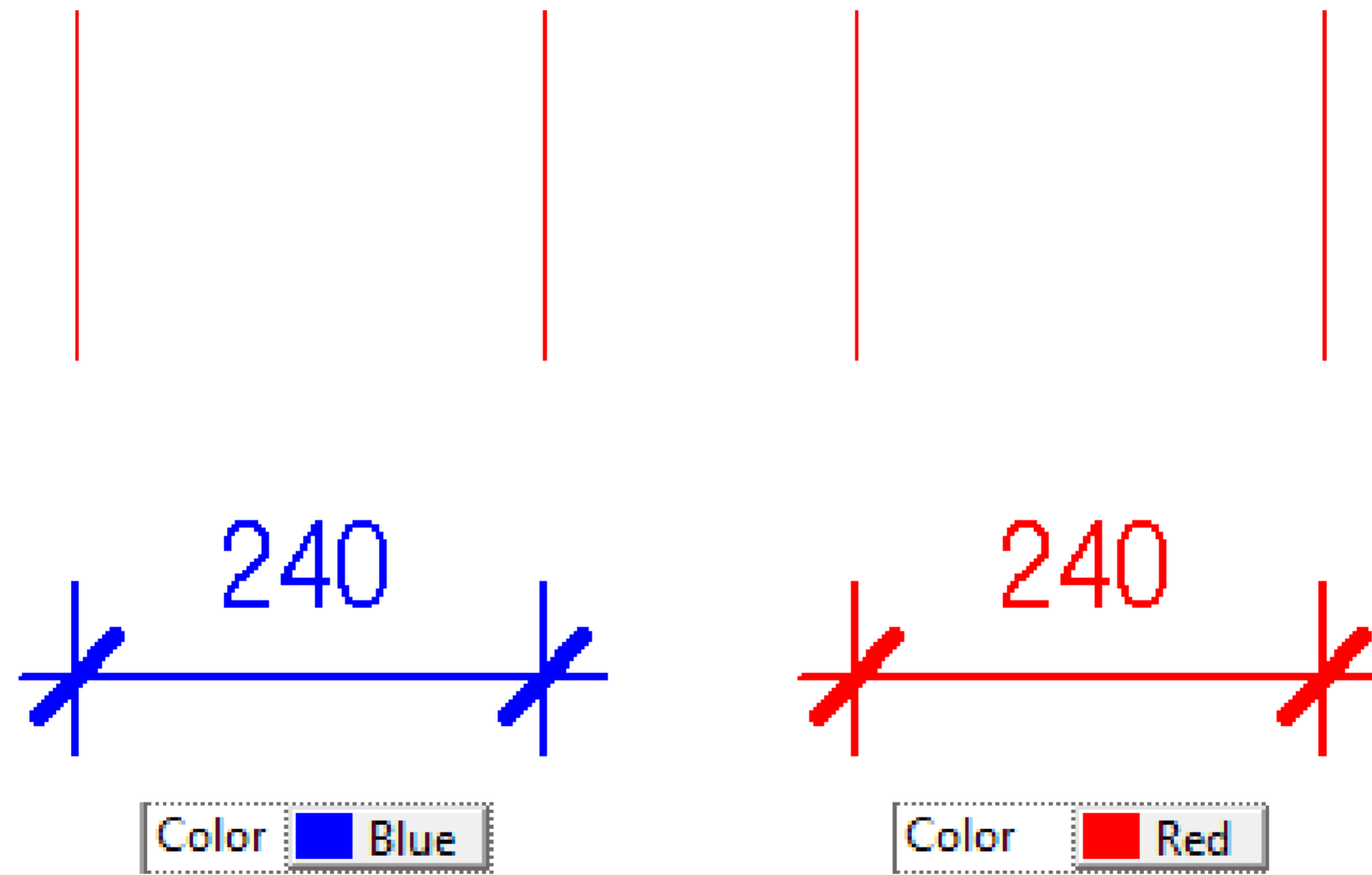
INTERIOR TICK LINES



REVERSING ARROW

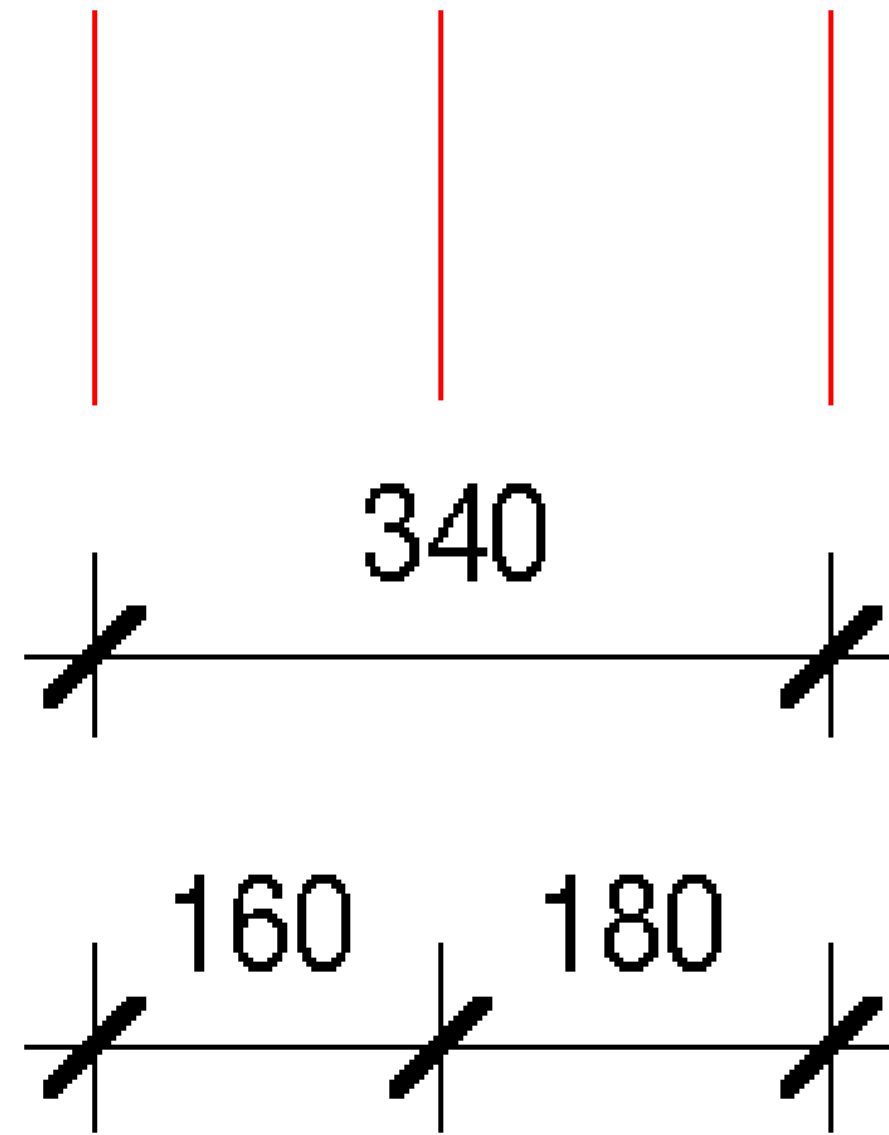


DIMENSION COLORS

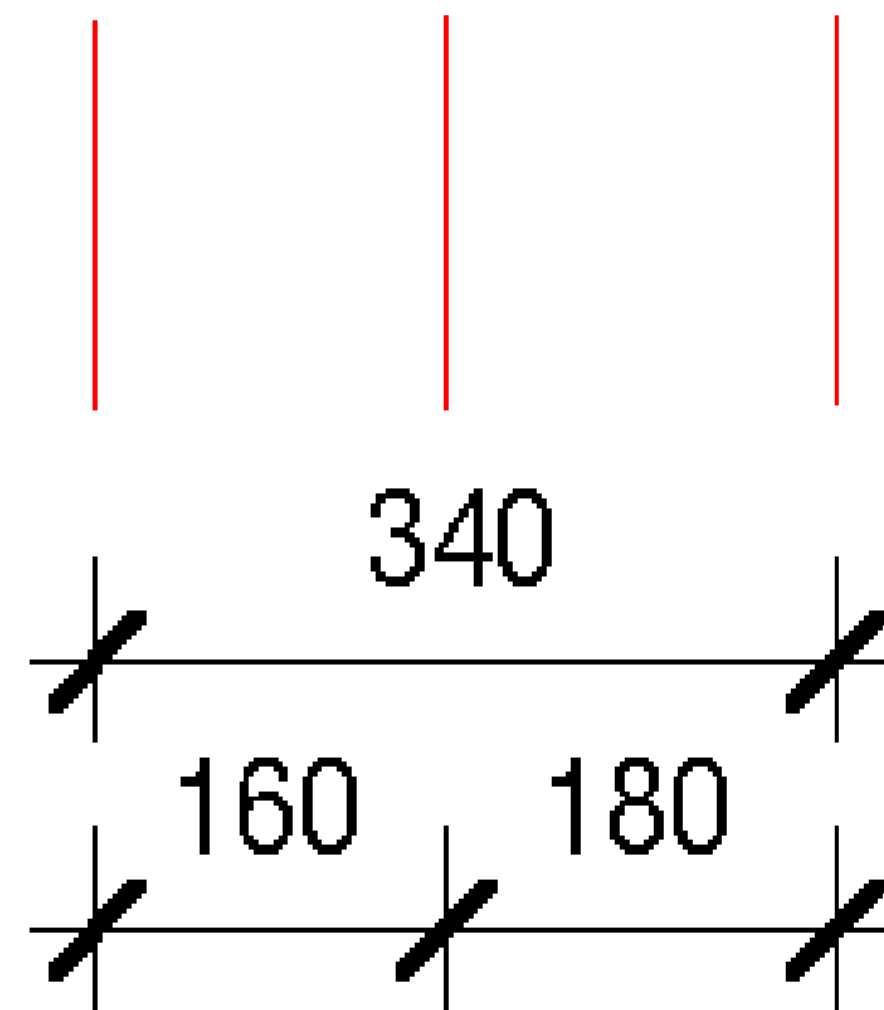


REVIT PURE LIVE #036
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DIMENSION SNAP LINE DISTANCE



Dimension Line Snap Distance 15.0000 mm



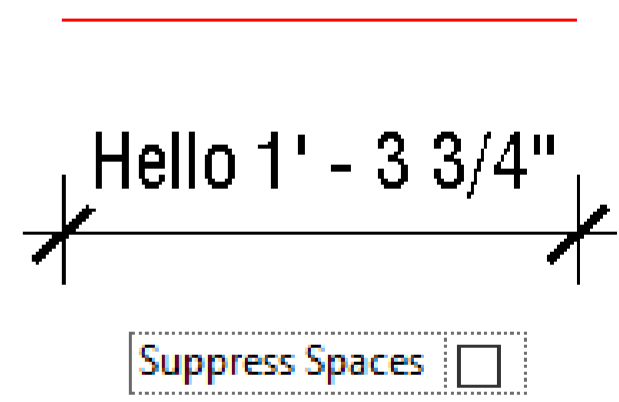
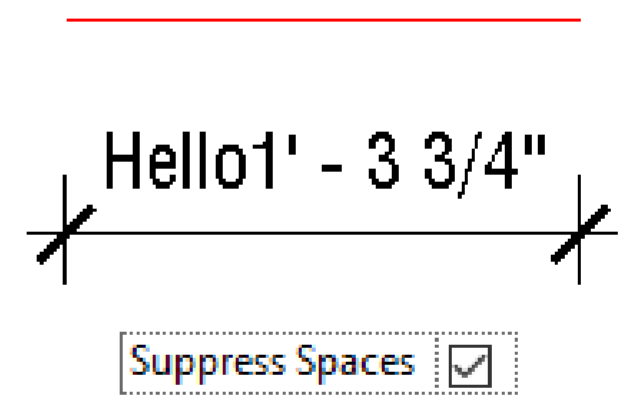
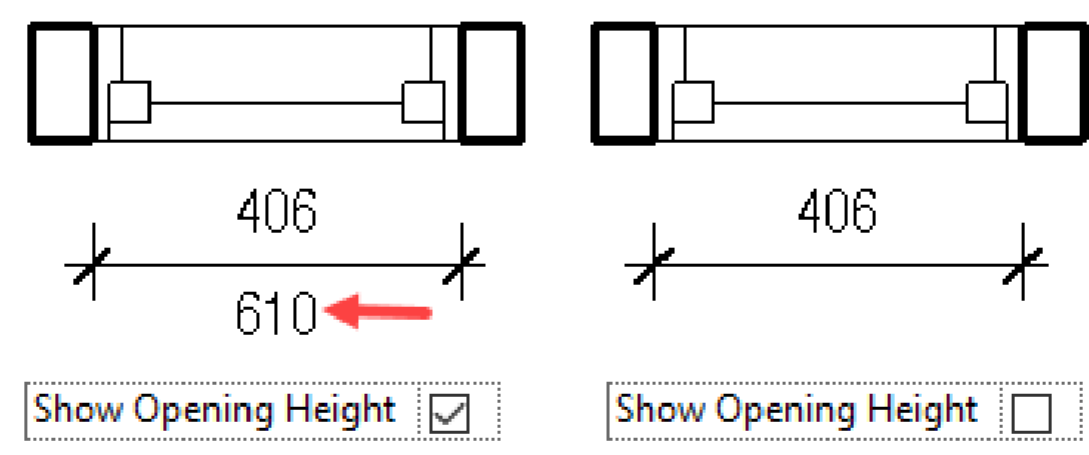
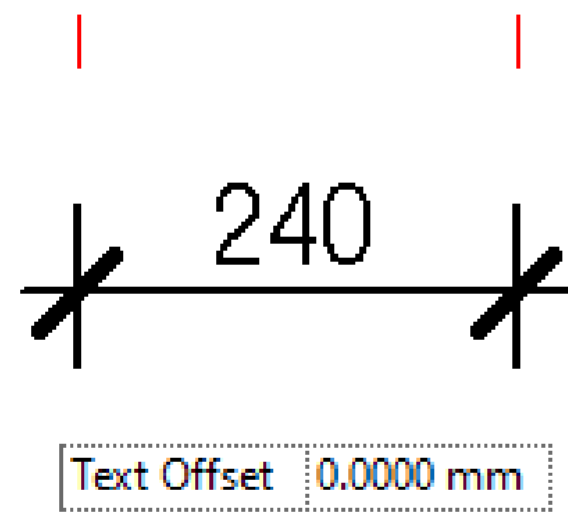
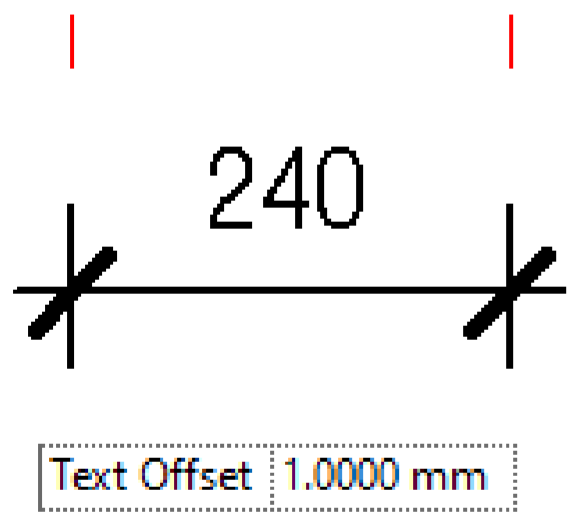
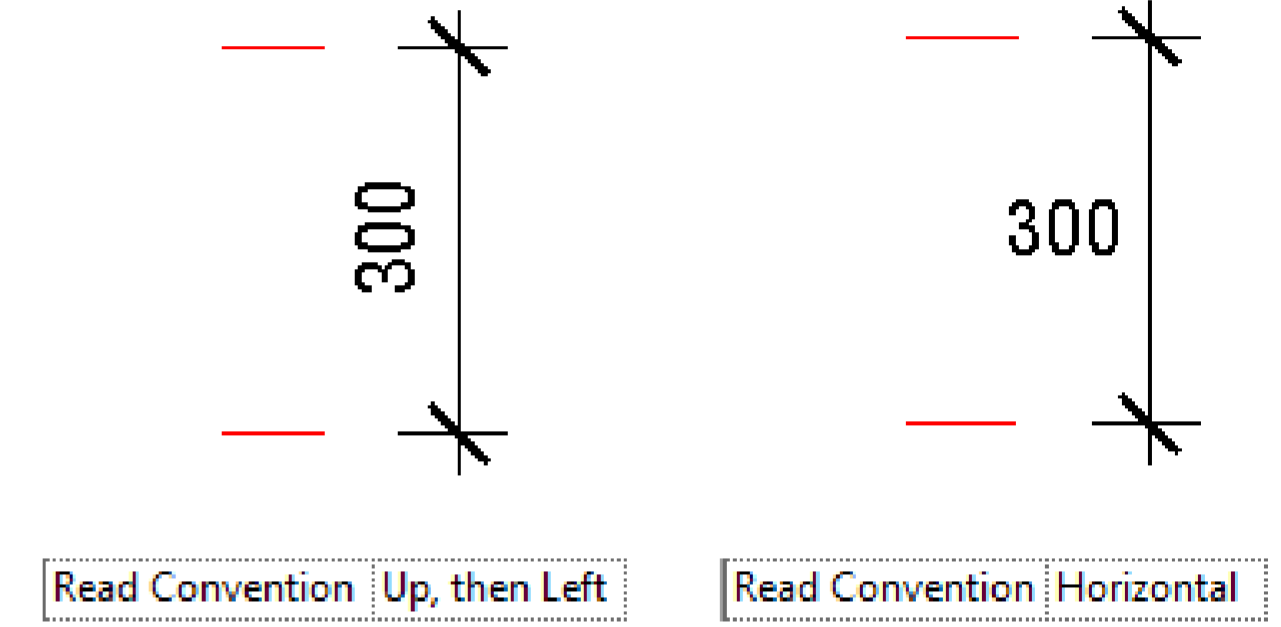
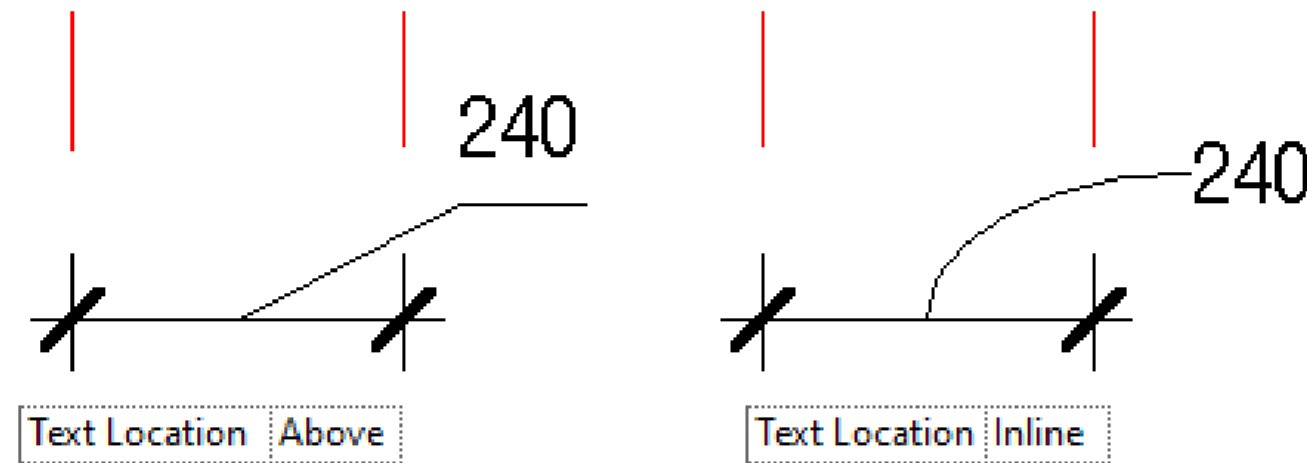
Dimension Line Snap Distance 9.0000 mm



REVIT PURE LIVE #036
NICOLAS CATELLIER

TEXT OPTIONS

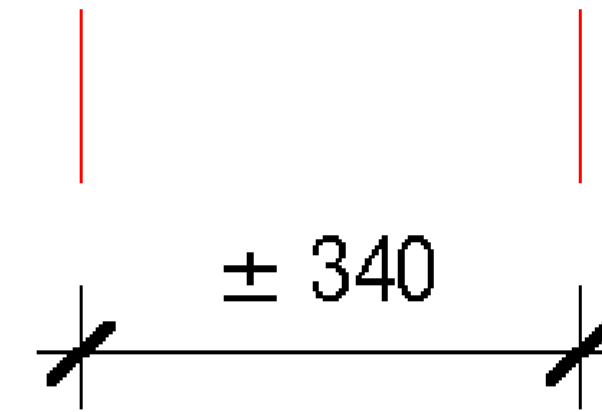
Text	
Width Factor	1.000000
Underline	<input type="checkbox"/>
Italic	<input type="checkbox"/>
Bold	<input type="checkbox"/>
Text Size	2.2500 mm
Text Offset	1.0000 mm
Read Convention	Up, then Left
Text Font	Swis721 Cn BT
Text Background	Opaque
Show Opening Height	<input type="checkbox"/>
Text Location	Inline
Suppress Spaces	<input type="checkbox"/>



PRIMARY & ALTERNATE UNITS

Primary Units	
Units Format	1235 [mm] (Default)
Dimension Prefix	
Dimension Suffix	
Alternate Units	
Alternate Units	None
Alternate Units Format	1235 [mm]
Alternate Units Prefix	
Alternate Units Suffix	

Primary Units	
Units Format	1235 [mm]
Dimension Prefix	±
Dimension Suffix	



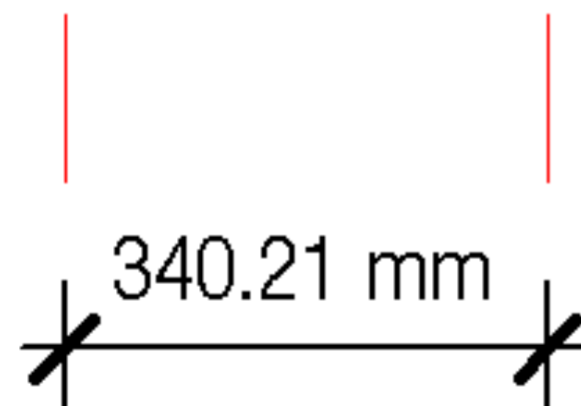
Format ×

Use project settings

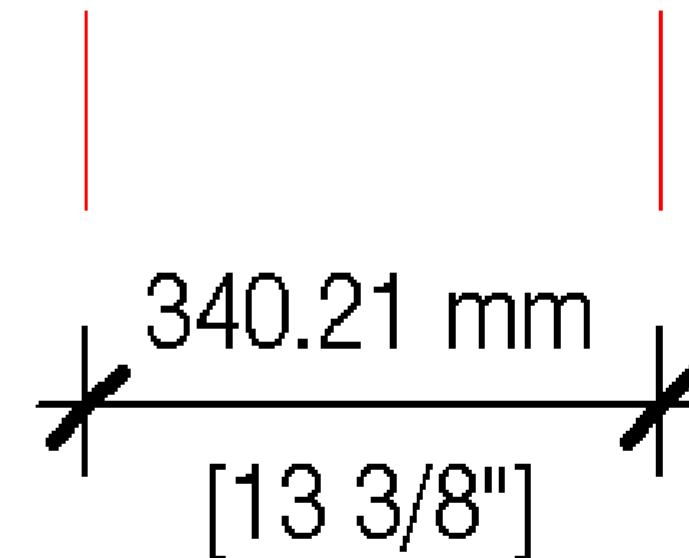
Units: Millimeters

Rounding: 2 decimal places Rounding increment: 0.01

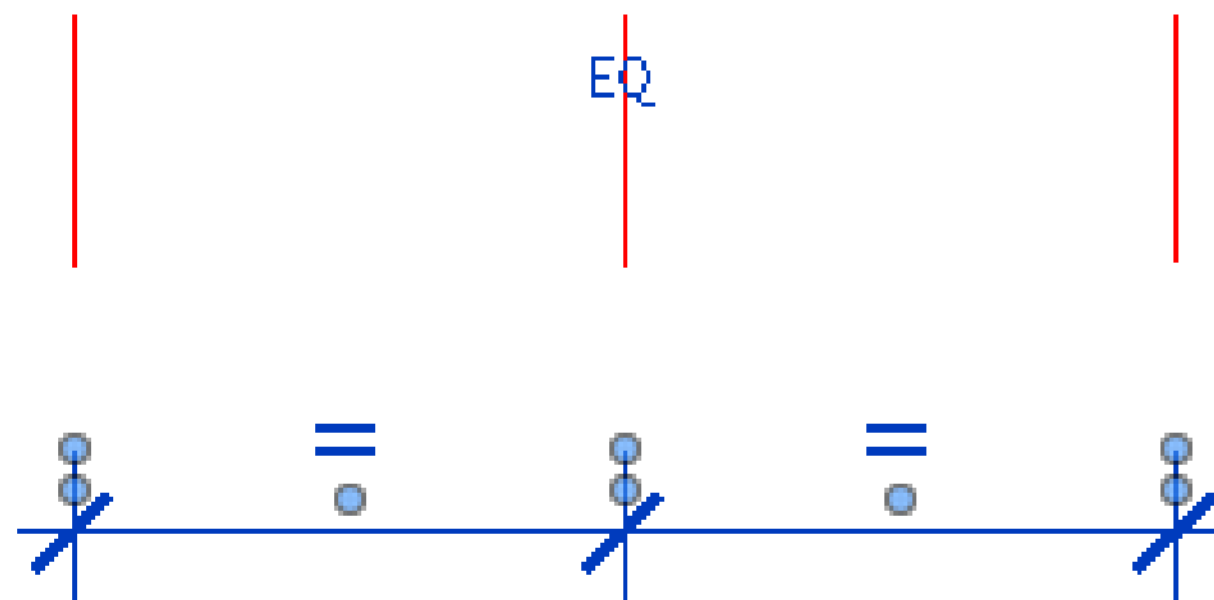
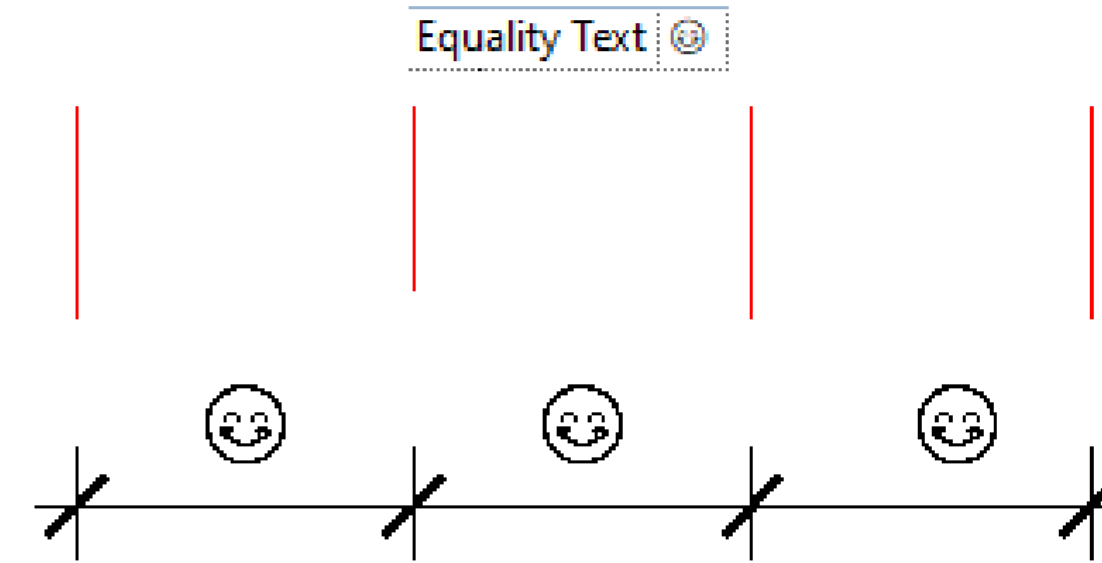
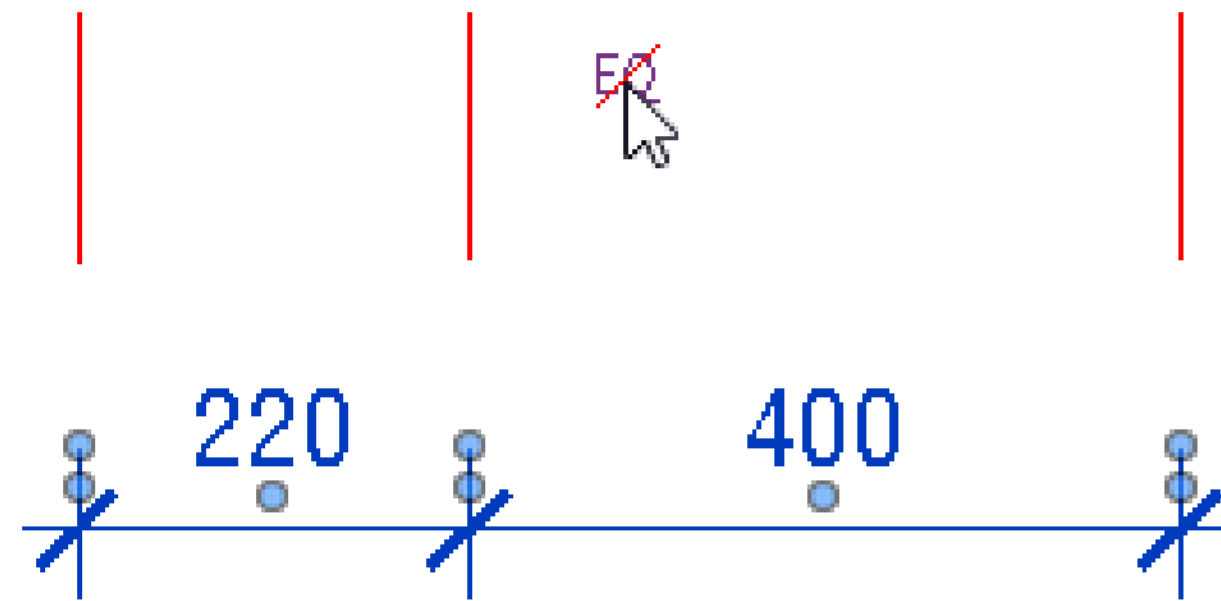
Unit symbol: mm



Alternate Units	
Alternate Units	Below
Alternate Units Format	17 3/8"
Alternate Units Prefix	[
Alternate Units Suffix]



EQUALITY VALUES



Label Parameters

	Parameter Name	Spaces	Prefix	Suffix
1	Length of Segment	1	SEG:[]-
2	Total Length	1	TOT:[]



TEXT OVERRIDE

Text Fields

Above:
Wow

Prefix: This Value: 2887 Suffix: Is

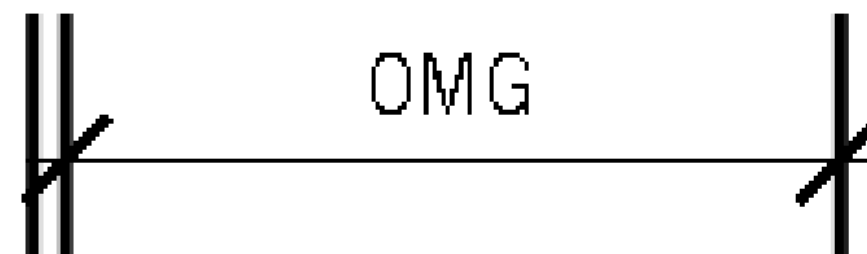
Below:
Awesome



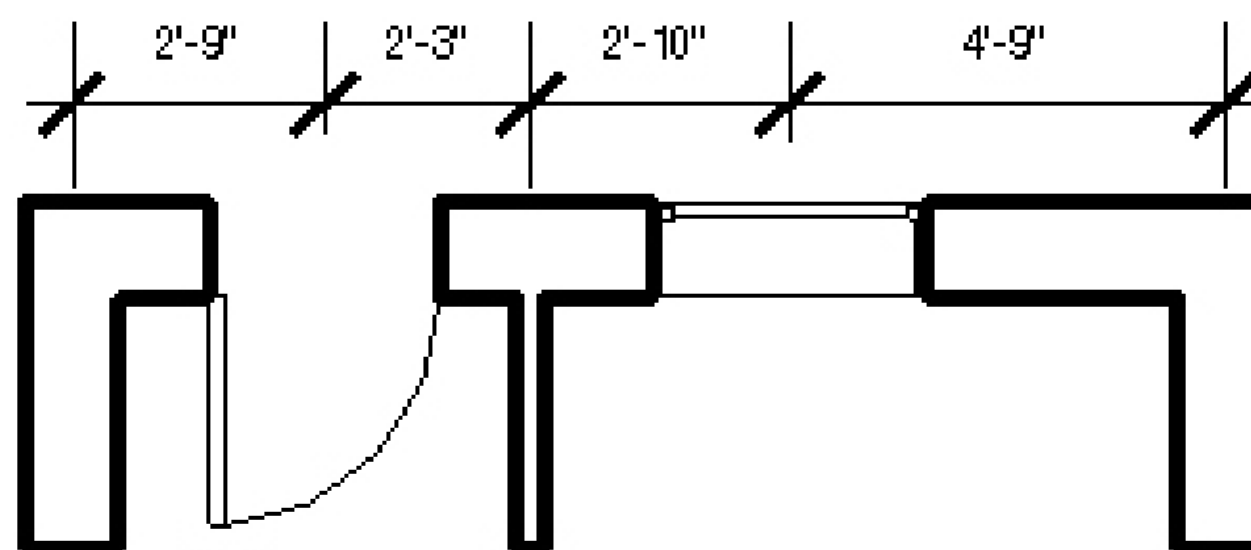
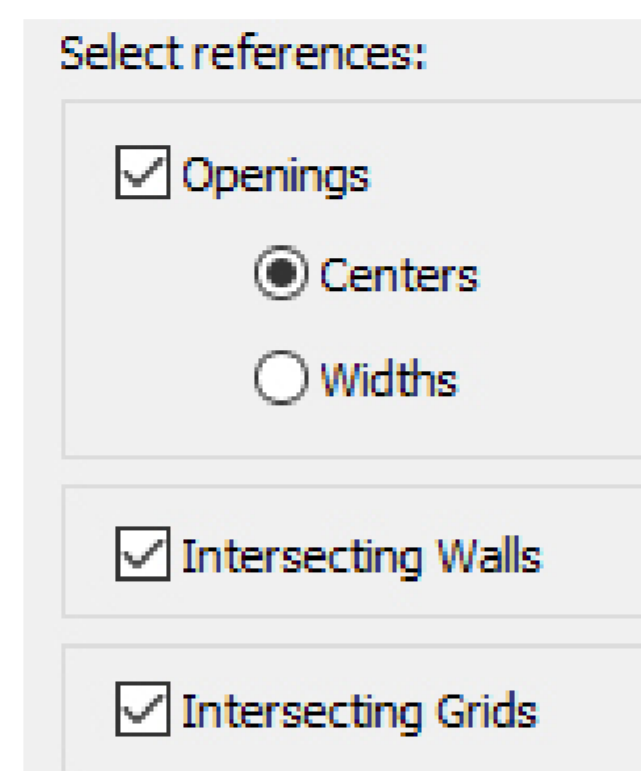
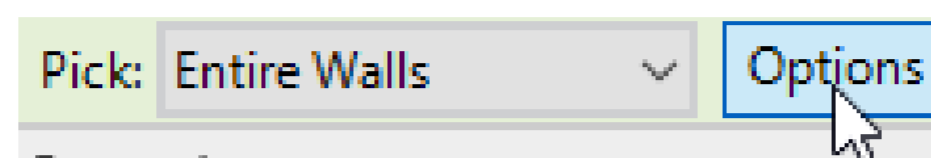
Dimension Value

Use Actual Value 2887

Replace With Text OMG

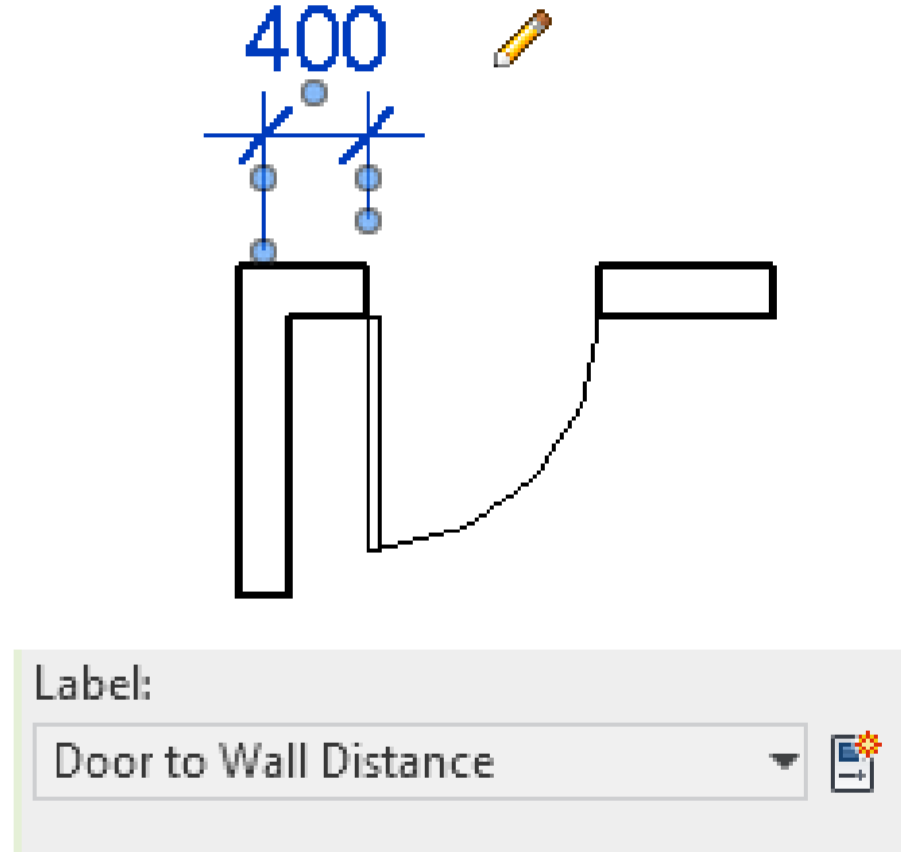
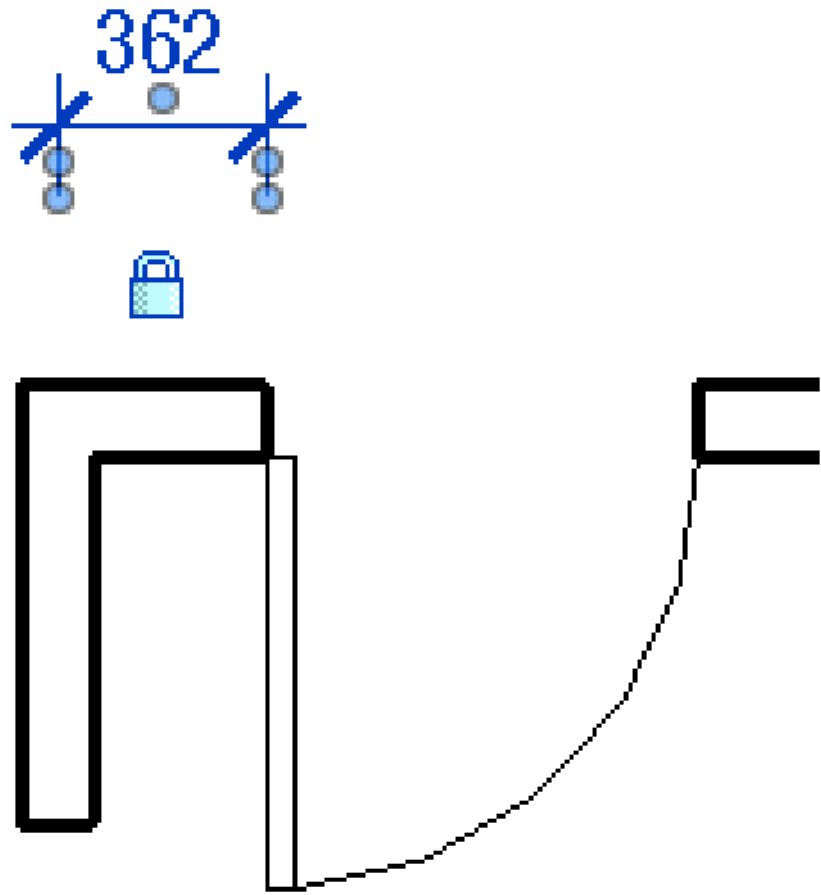
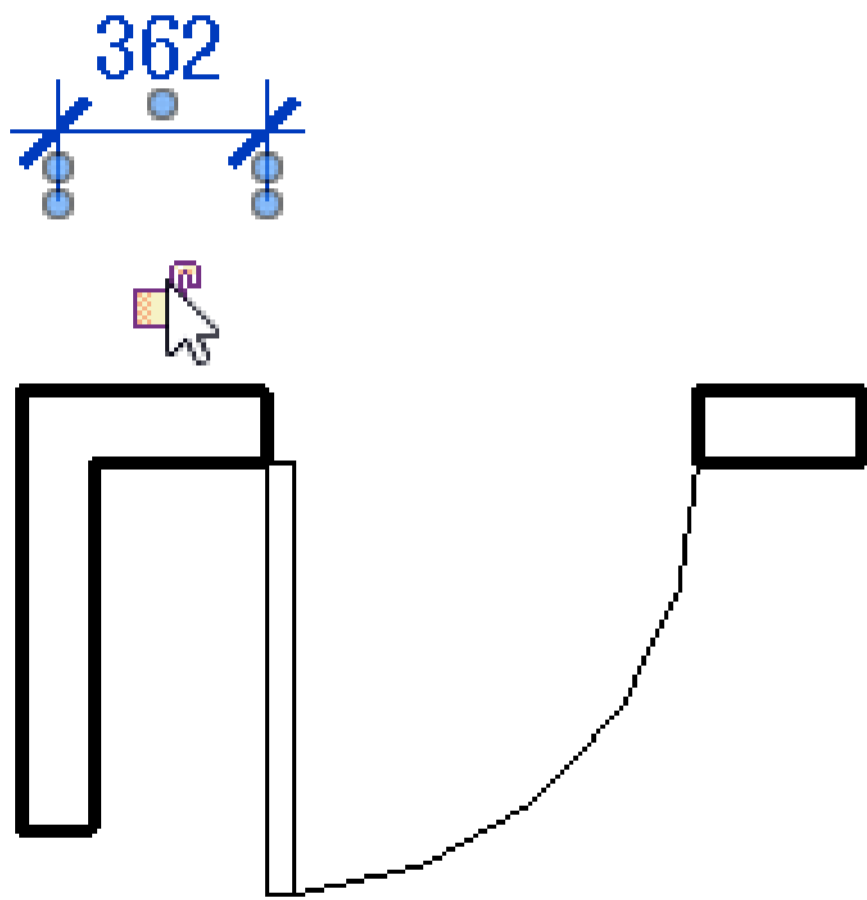


AUTO-DIMENSION WALLS

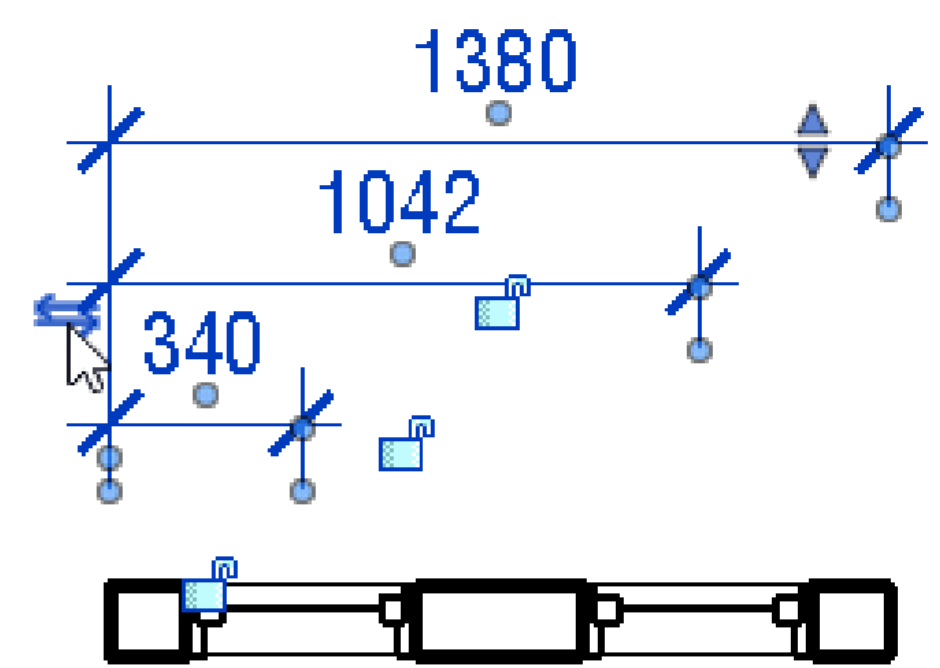
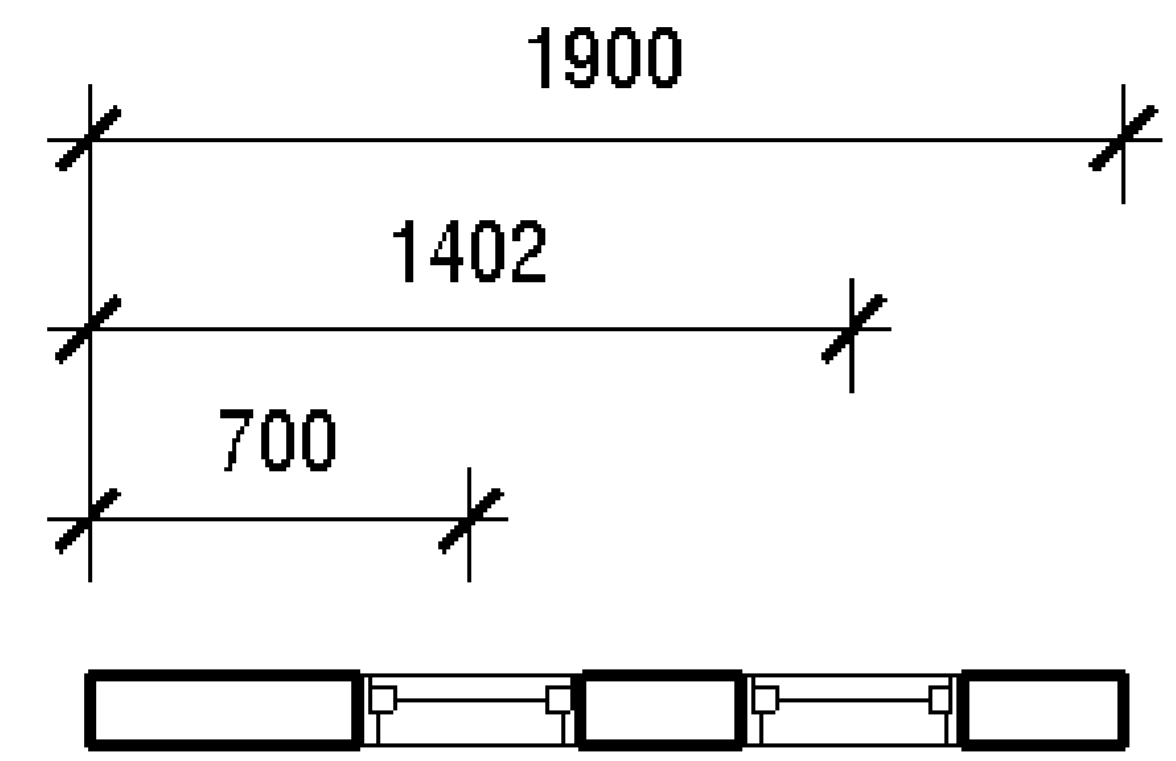


REVIT PURE LIVE #036
NICOLAS CATELLIER

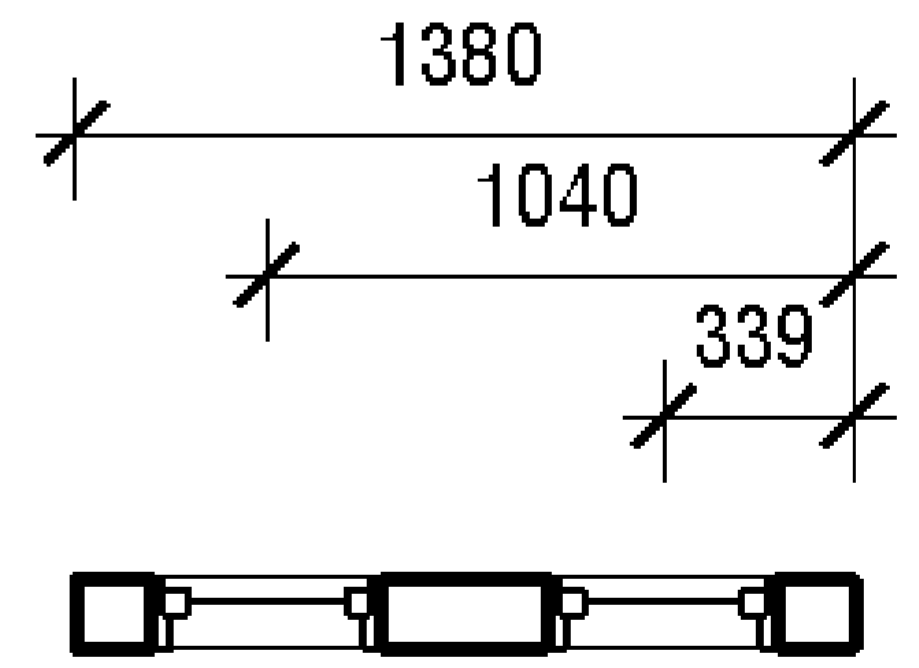
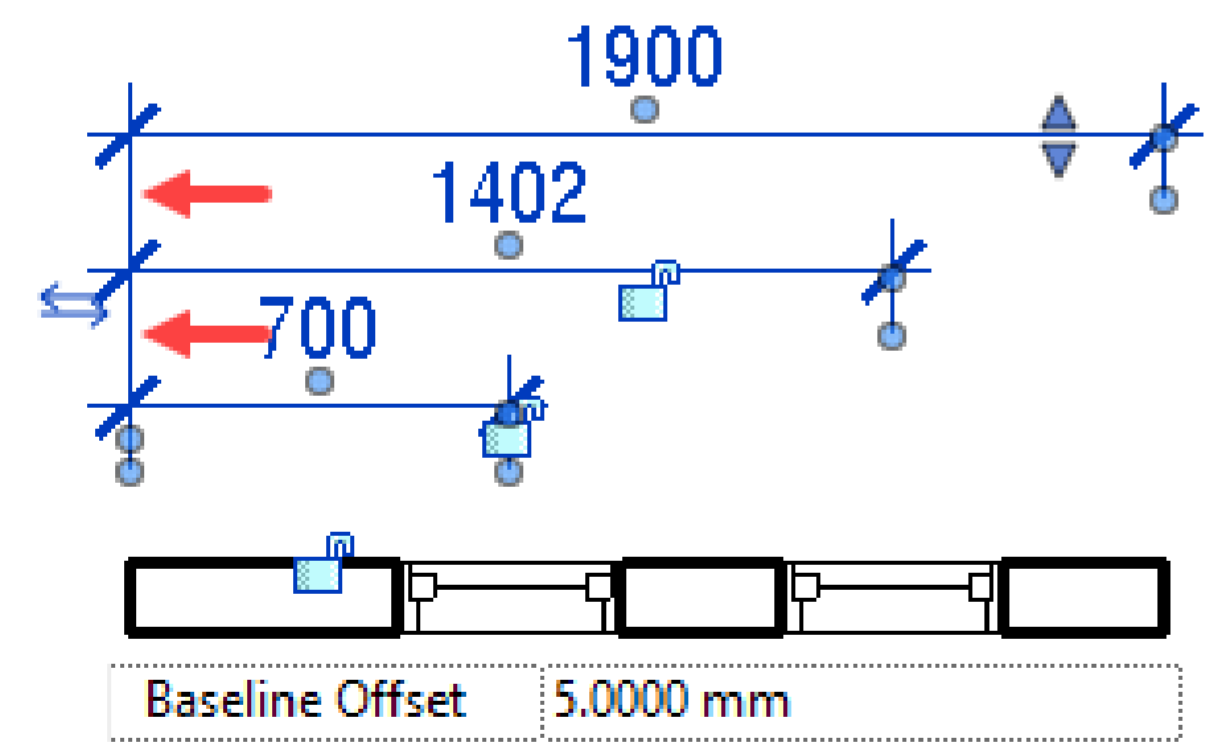
CONSTRAINT & LABEL ELEMENTS



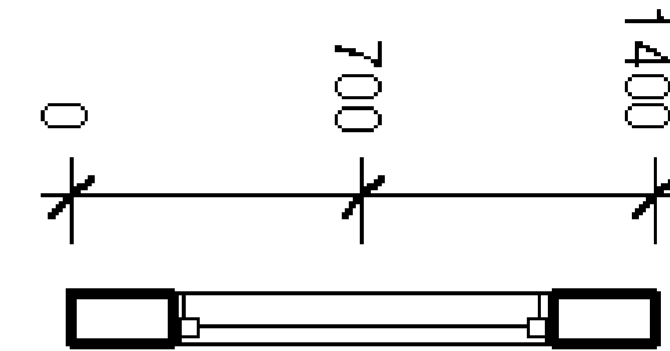
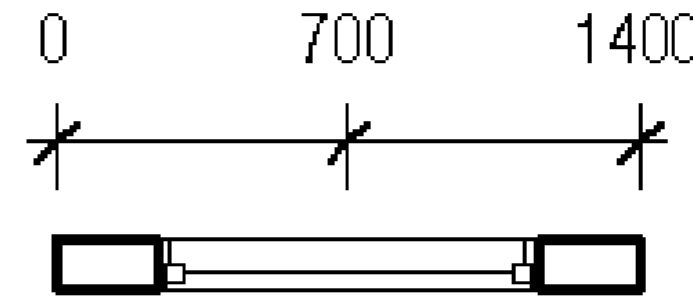
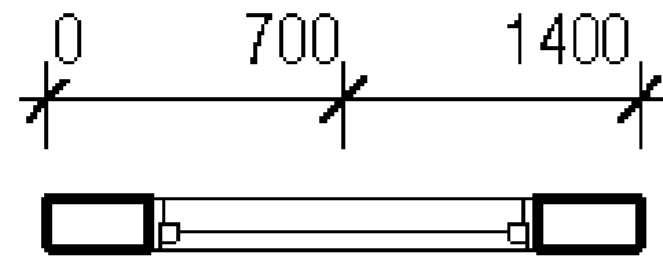
BASELINE DIMENSION



↔ FLIP DIMENSION



ORDINATE DIMENSION



Ordinate Dimension Settings Edit...

Text Orientation

Parallel to Dimension Line

Parallel to Witness Line

Text Orientation

Parallel to Dimension Line

Parallel to Witness Line

Ordinate Dimension Settings ? X

Text Orientation

Parallel to Dimension Line

Parallel to Witness Line

Text Position

End of Witness Line

Next to Witness Line

Origin Visibility:

Witness Line with Text

Origin Tick Mark:

Diagonal 2mm

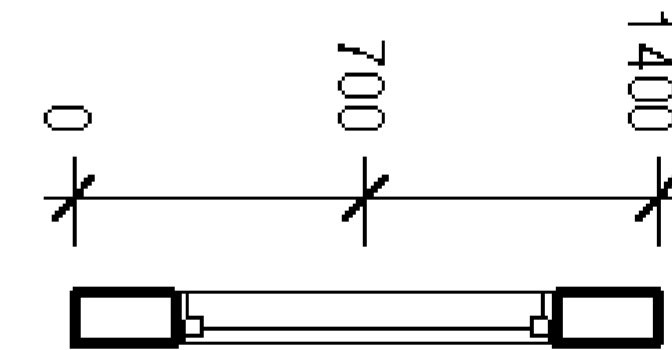
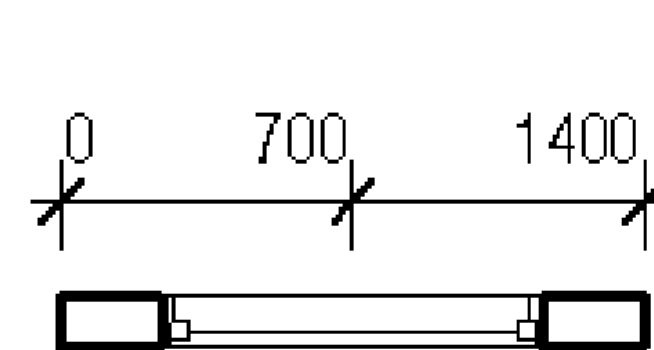
Dimension Line Style:

Segmented

Length of Segments:

25 mm

OK Cancel



Text Position

End of Witness Line

Next to Witness Line

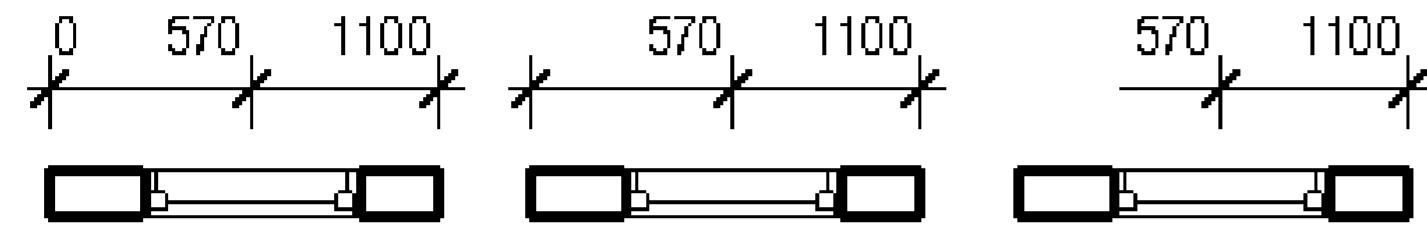
Text Position

End of Witness Line

Next to Witness Line



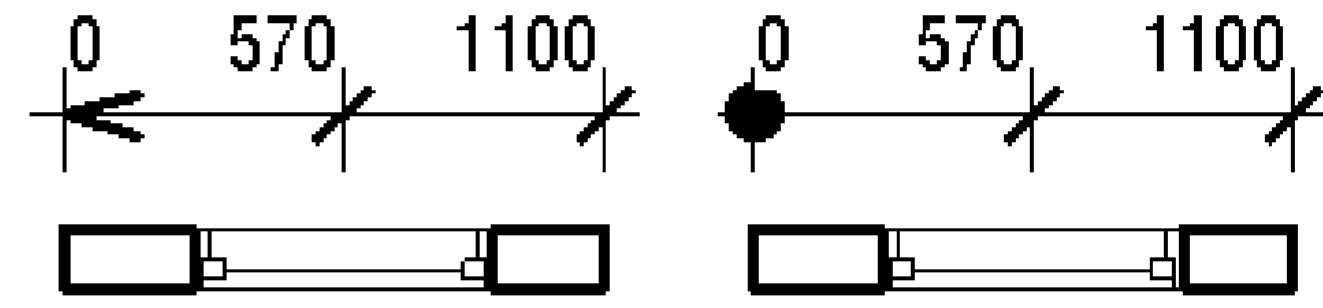
ORDINATE DIMENSION



Origin Visibility:
Witness Line with Text

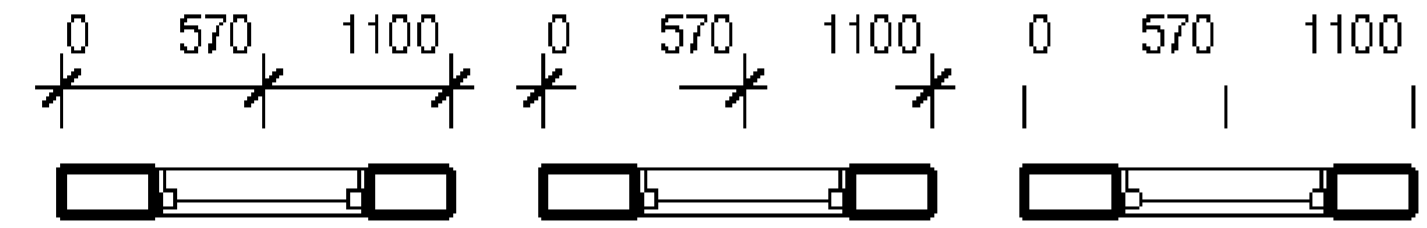
Origin Visibility:
Witness Line only

Origin Visibility:
None



Origin Tick Mark:
Arrow 30 Degree

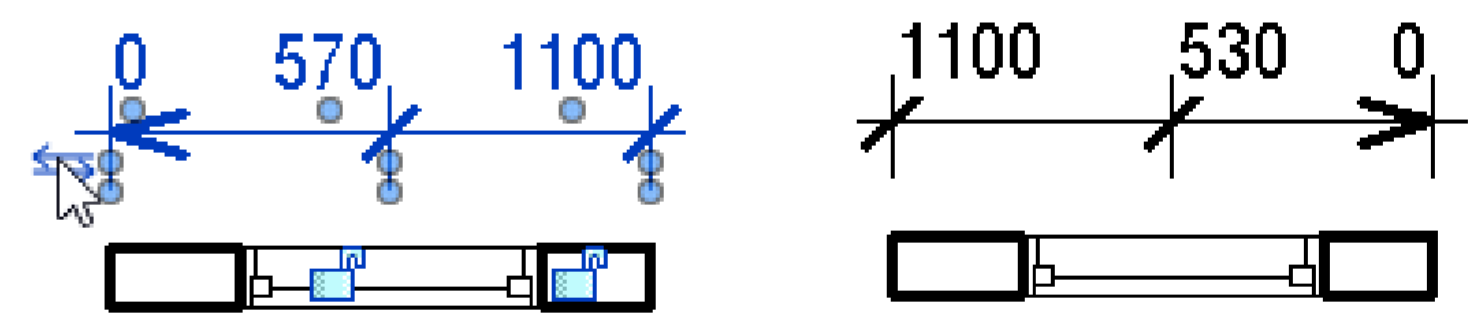
Origin Tick Mark:
Filled Dot 2mm



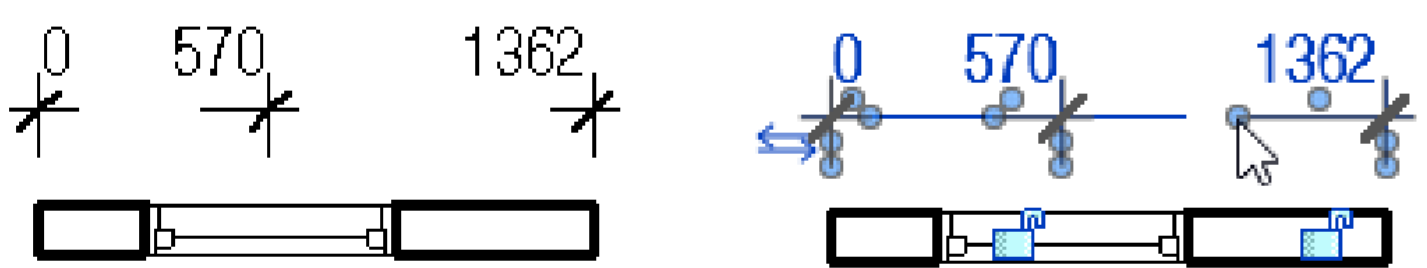
Dimension Line Style:
Continuous

Dimension Line Style:
Segmented

Dimension Line Style:
None



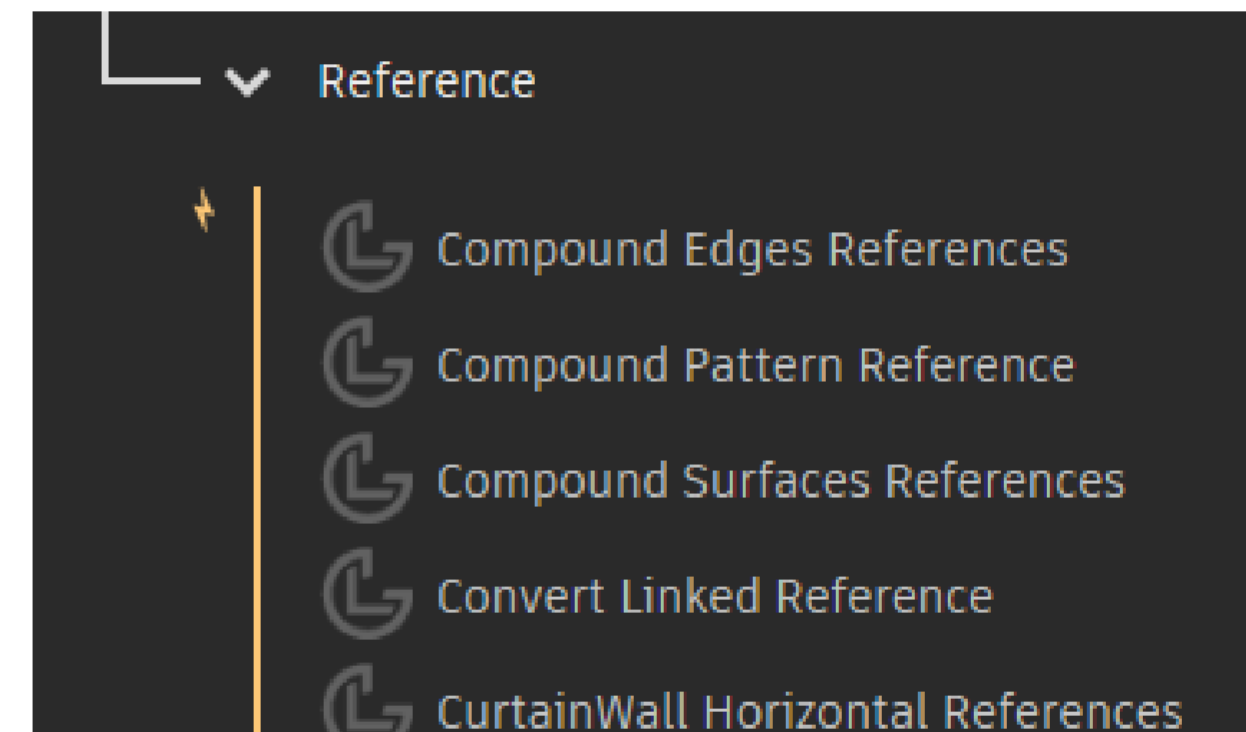
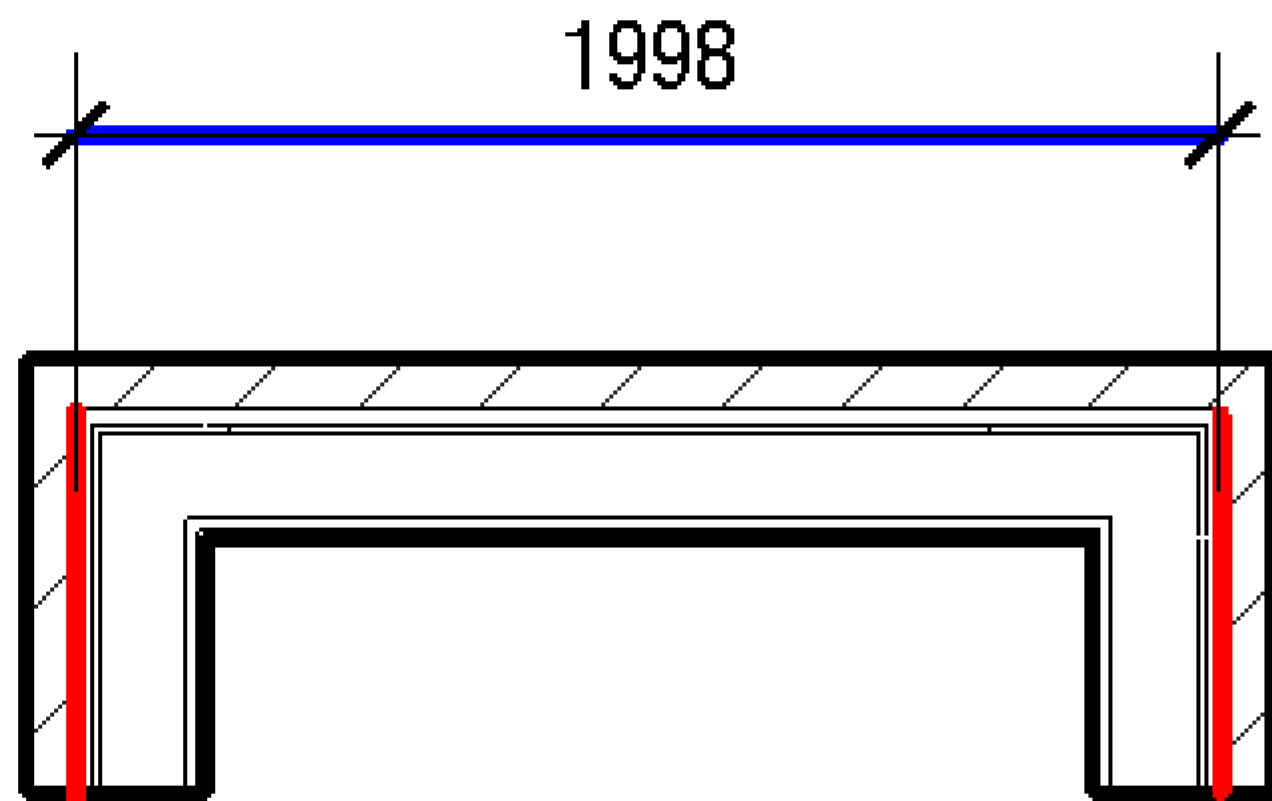
↔ FLIP THE ORIGIN



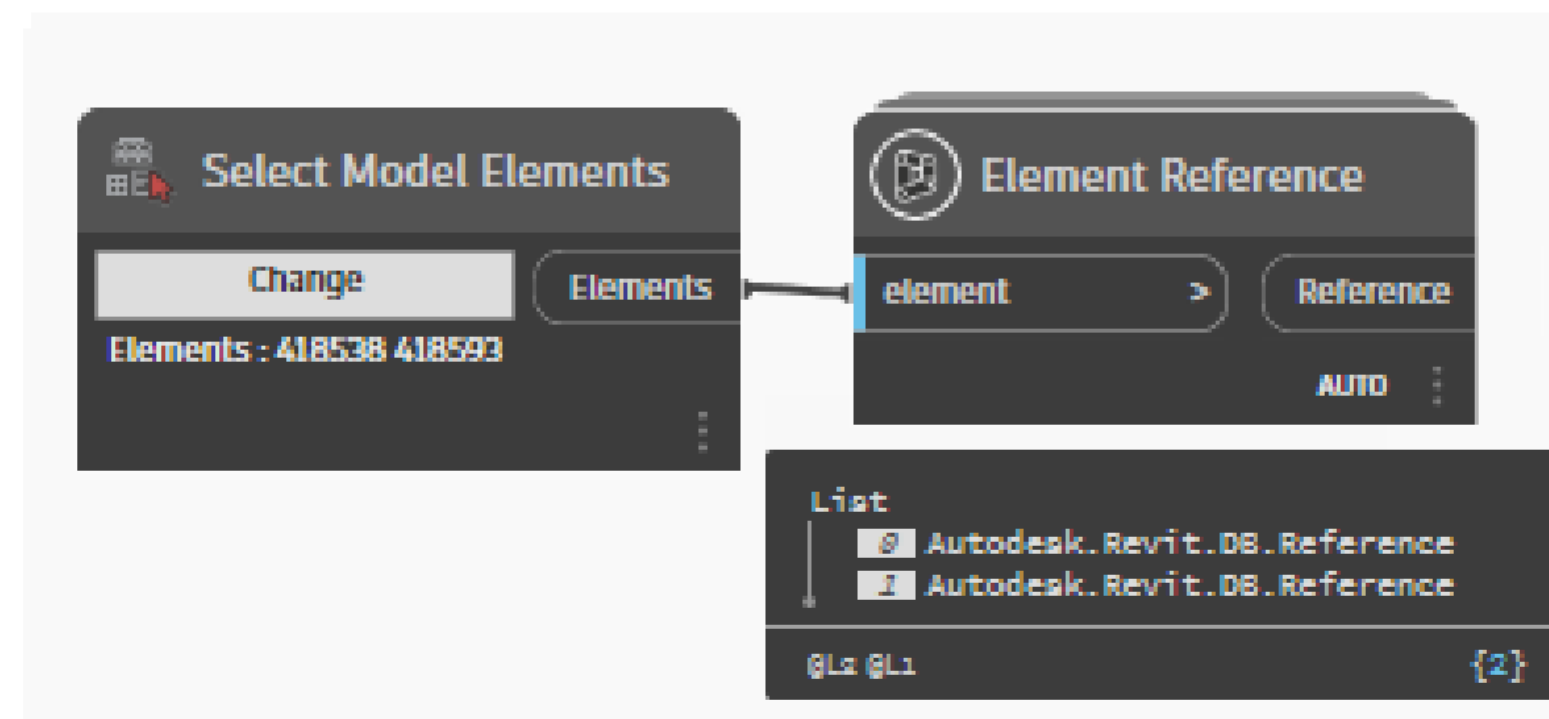
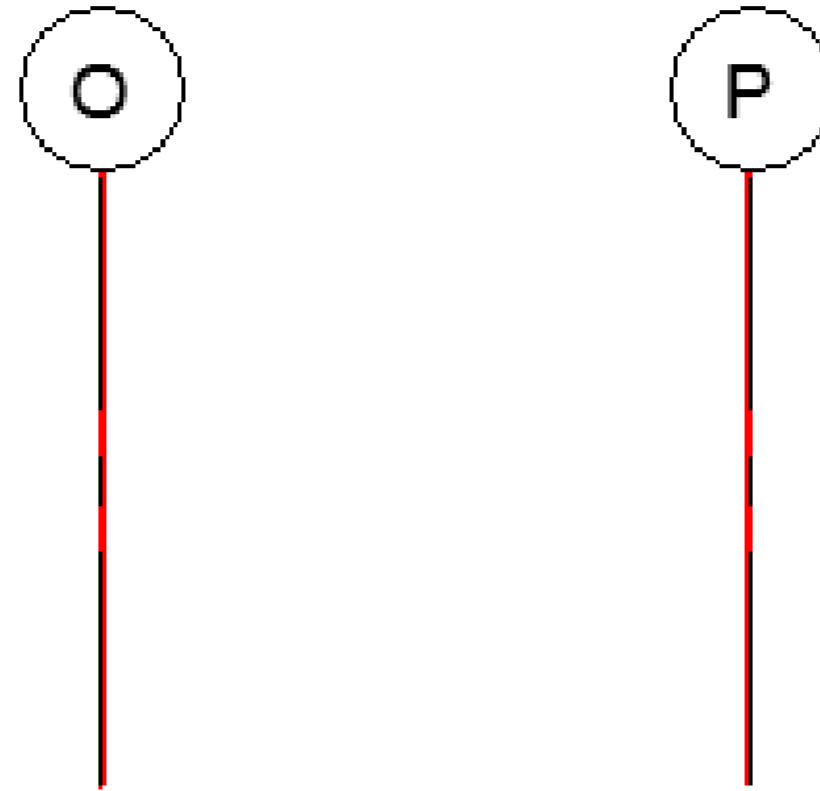
Length of Segments:
10 mm



DYNAMO SCRIPT: LINES & REFERENCES

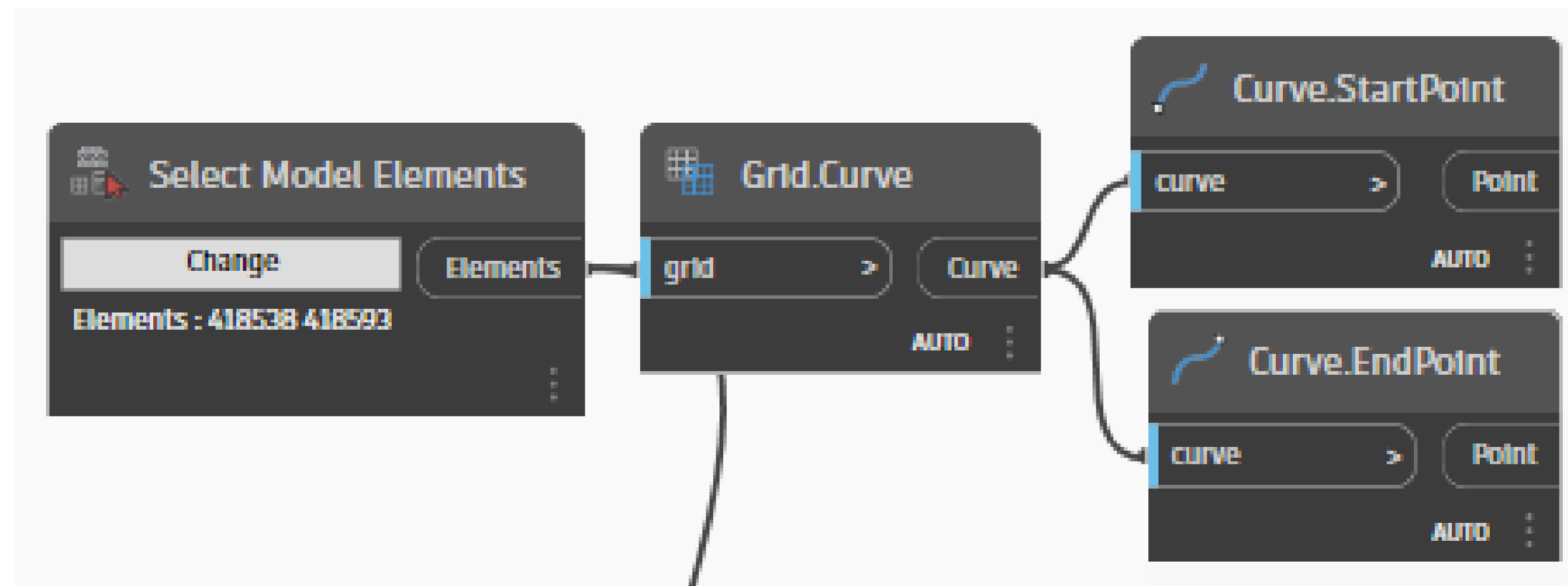
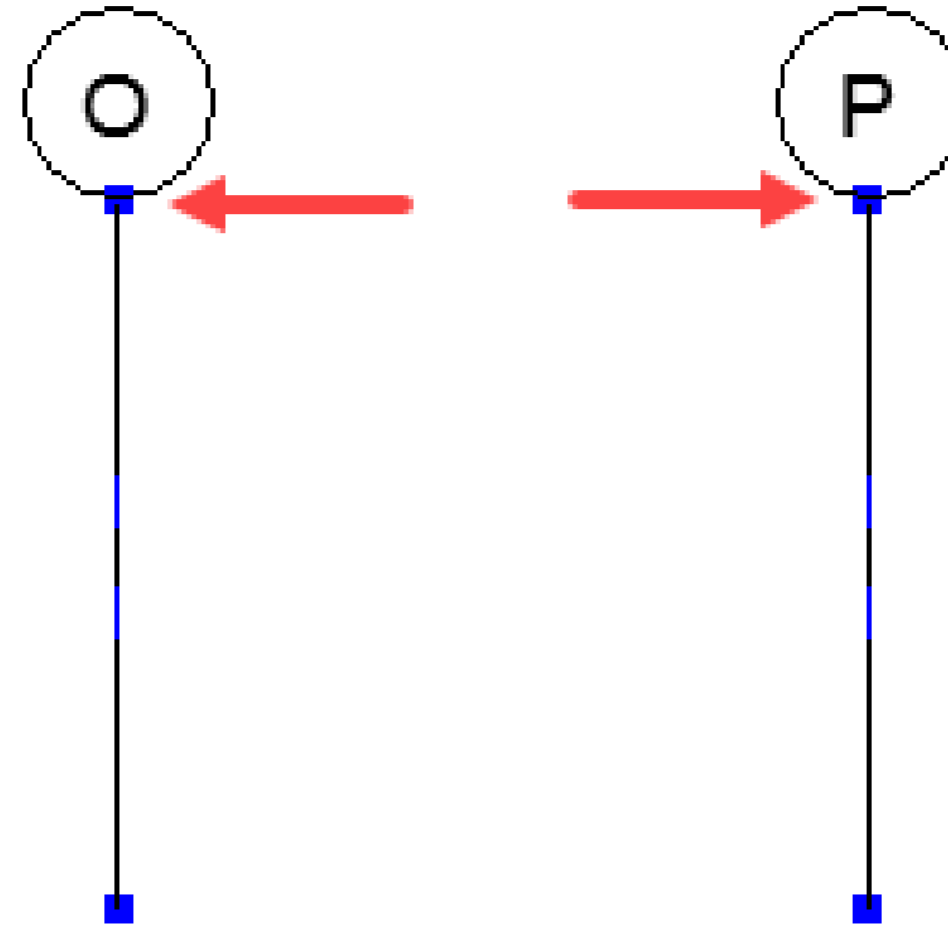


SIMPLE REFERENCES

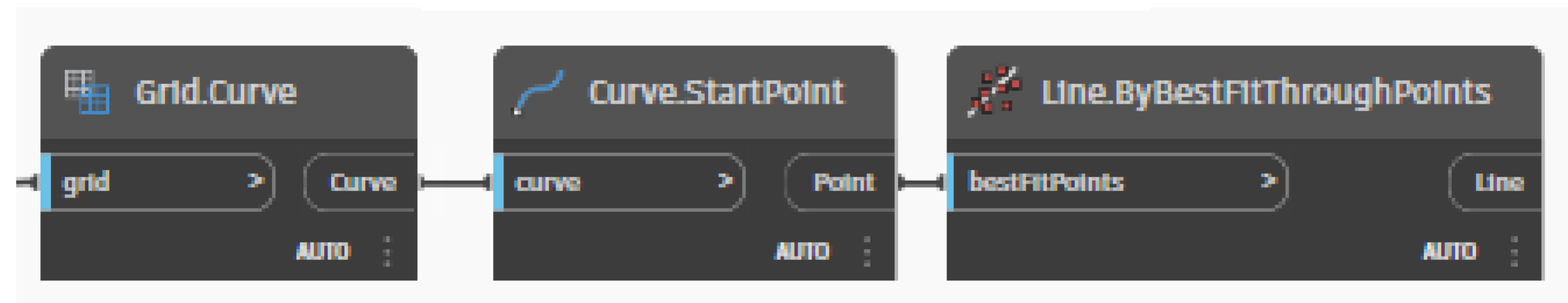
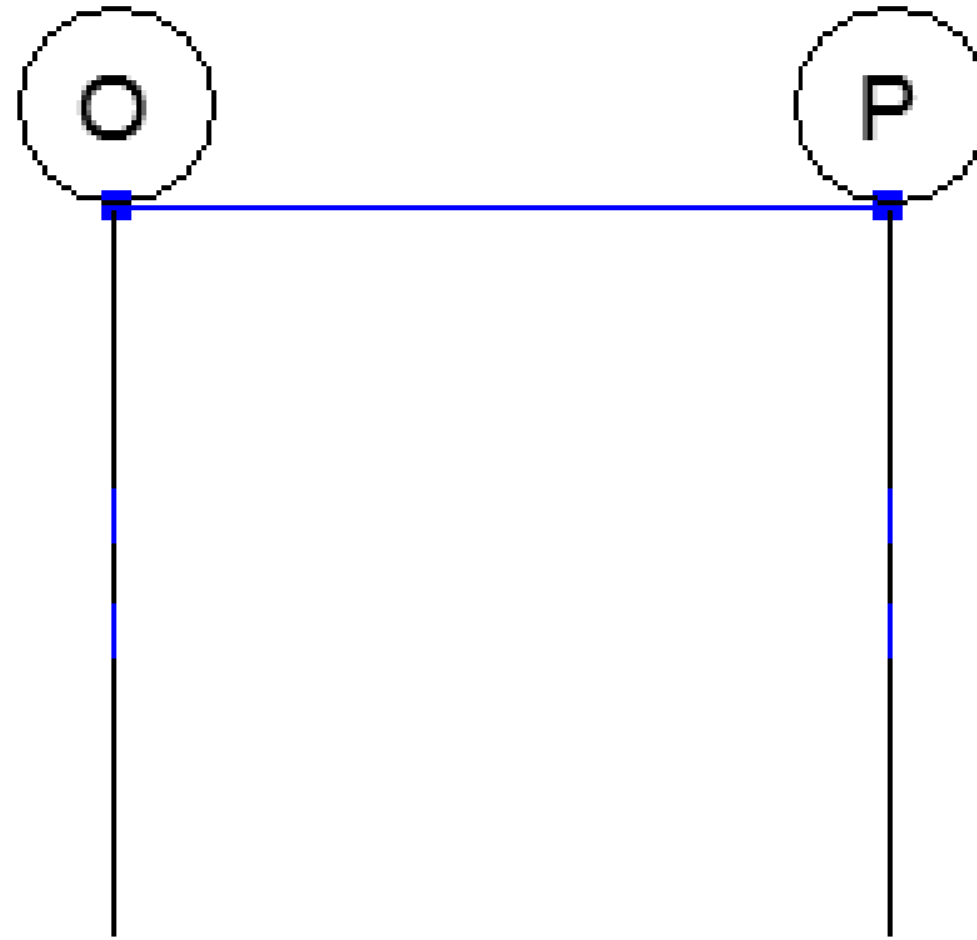


REVIT PURE LIVE #036
NICOLAS CATELLIER

CREATE LINE: GET THE POINTS

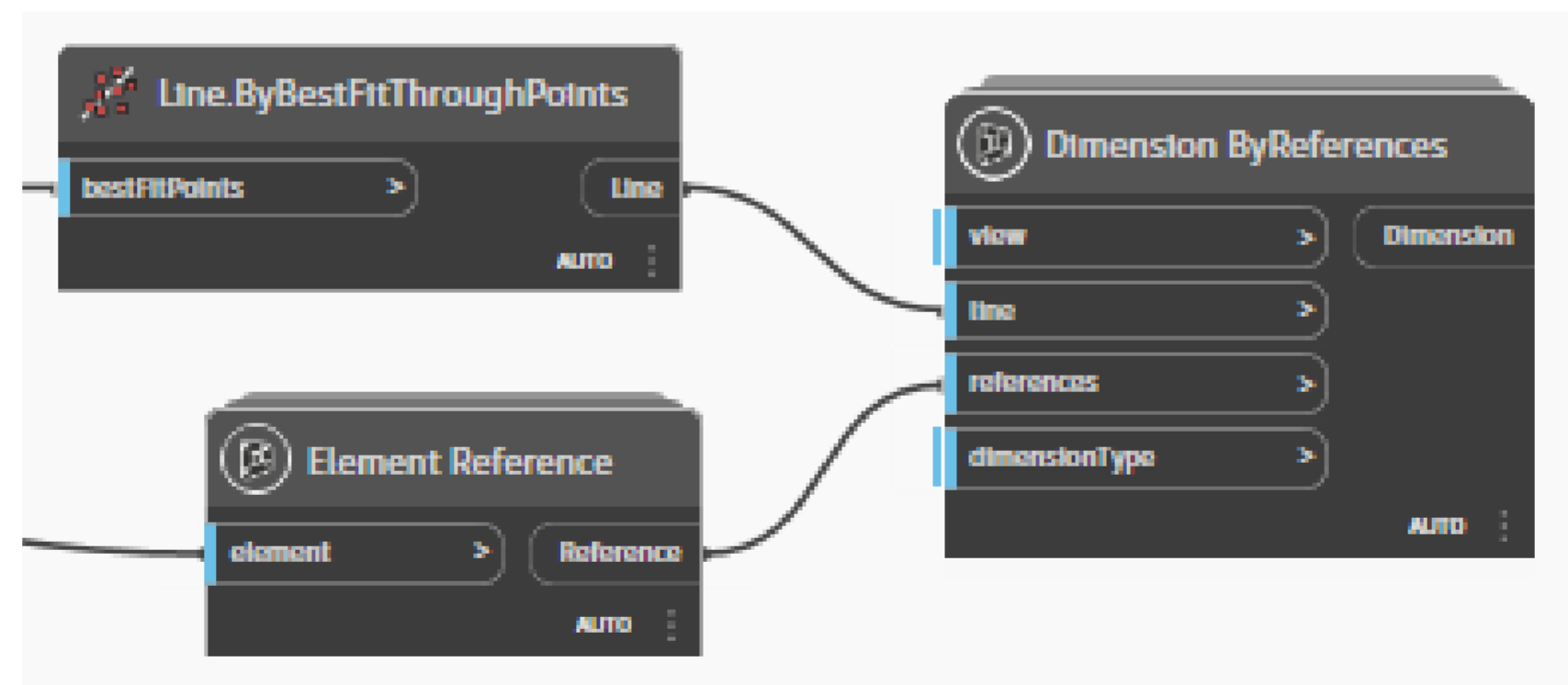
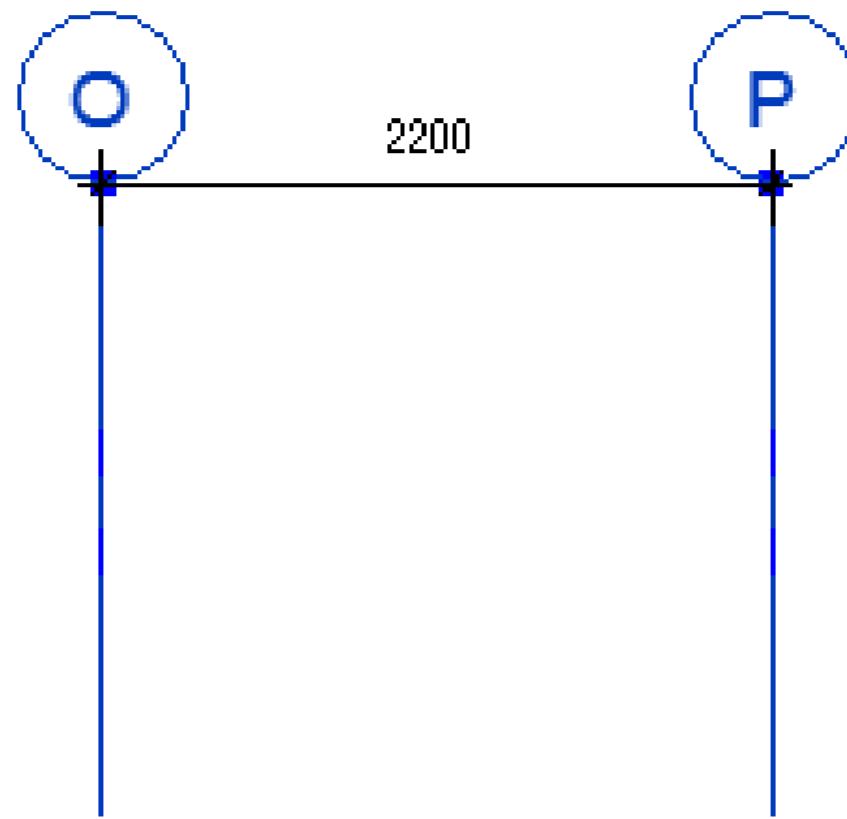


CREATE LINE: LINK THE POINTS



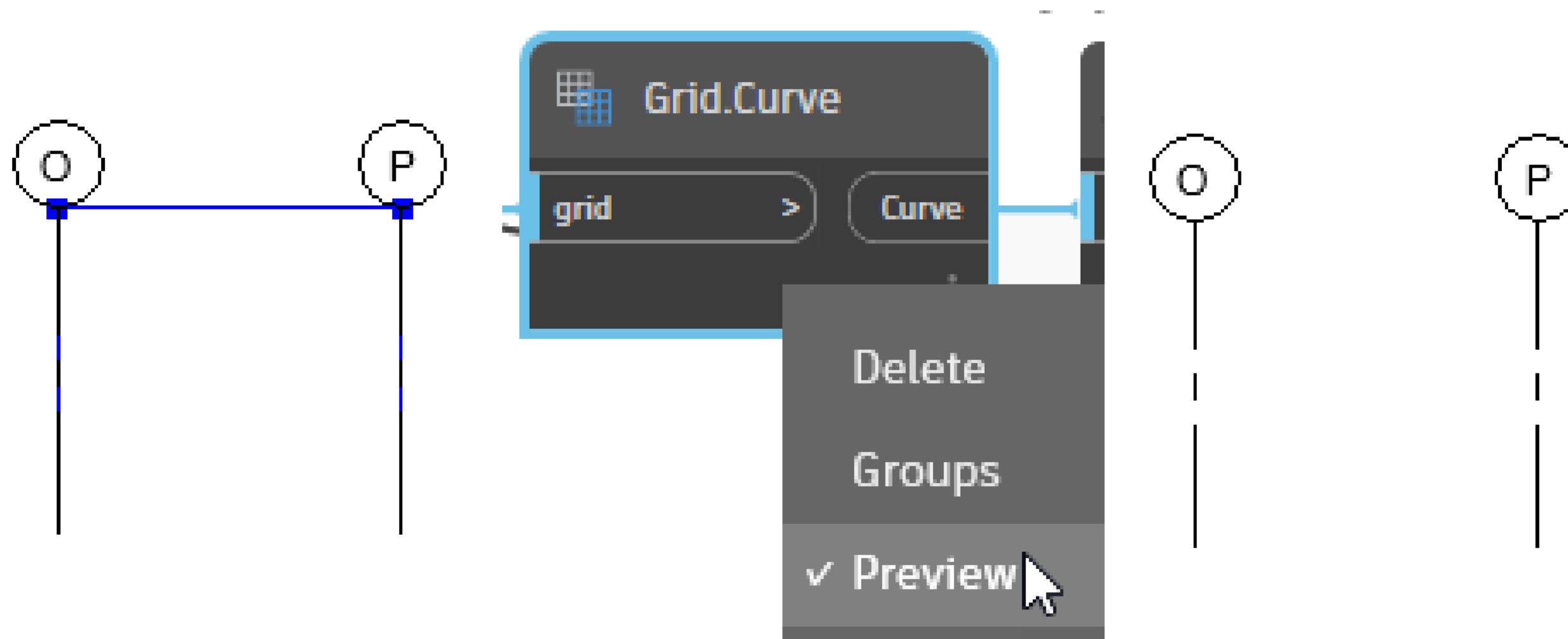
REVIT PURE LIVE #036
NICOLAS CATELLIER

GENERATE DIMENSION

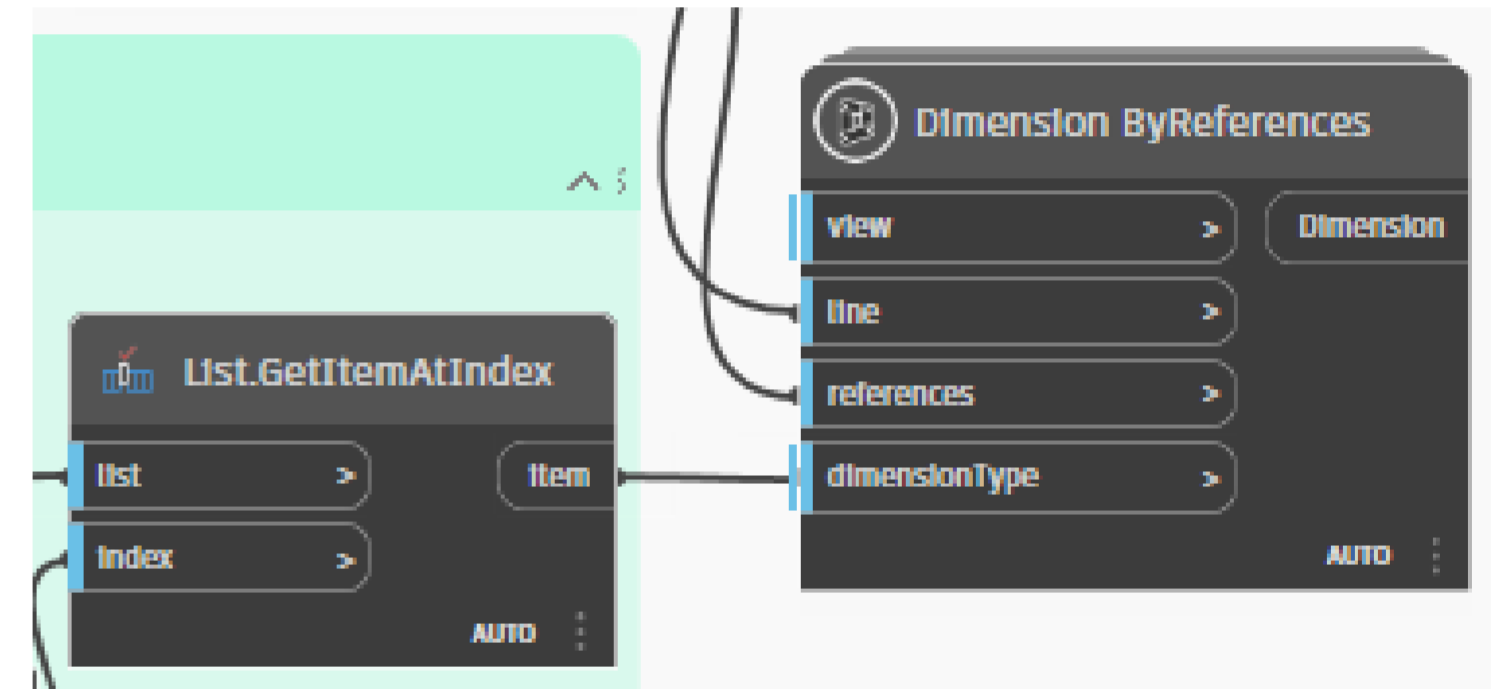
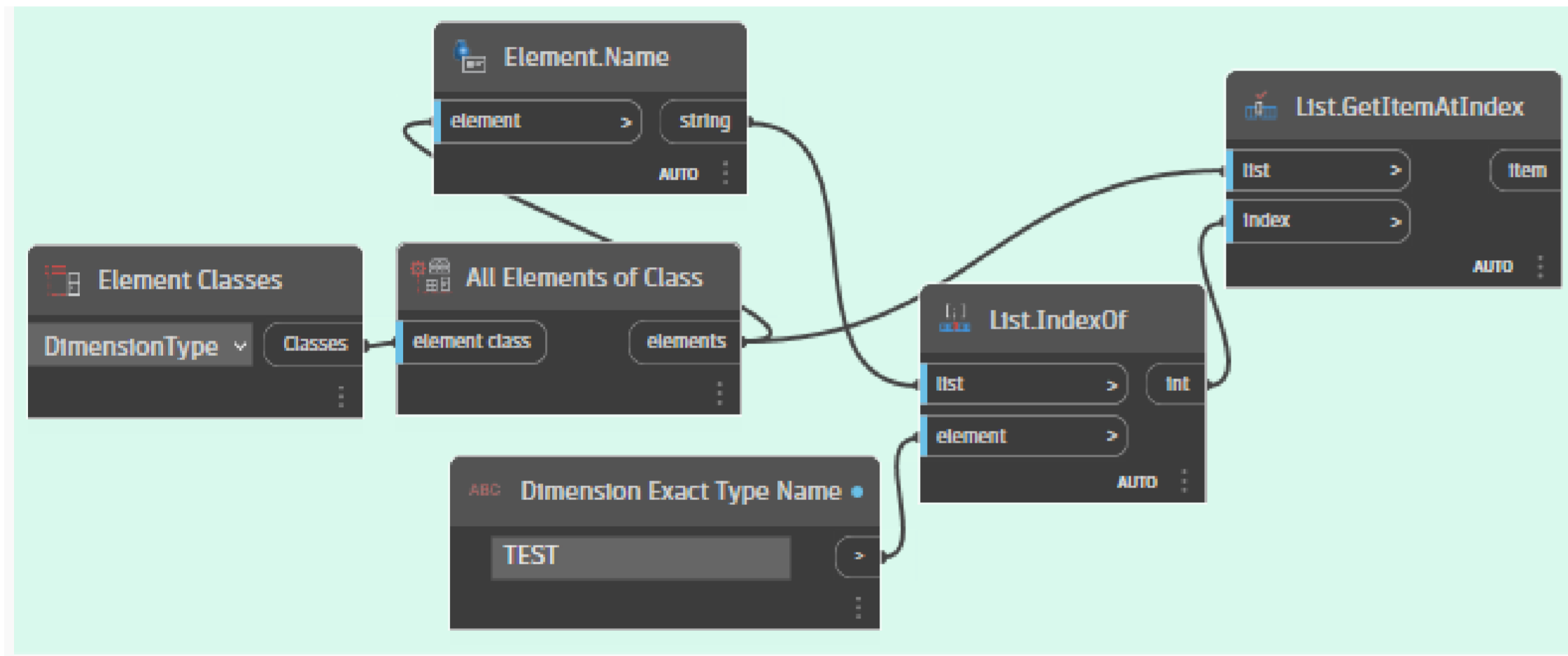


REVIT PURE LIVE #036
NICOLAS CATELLIER

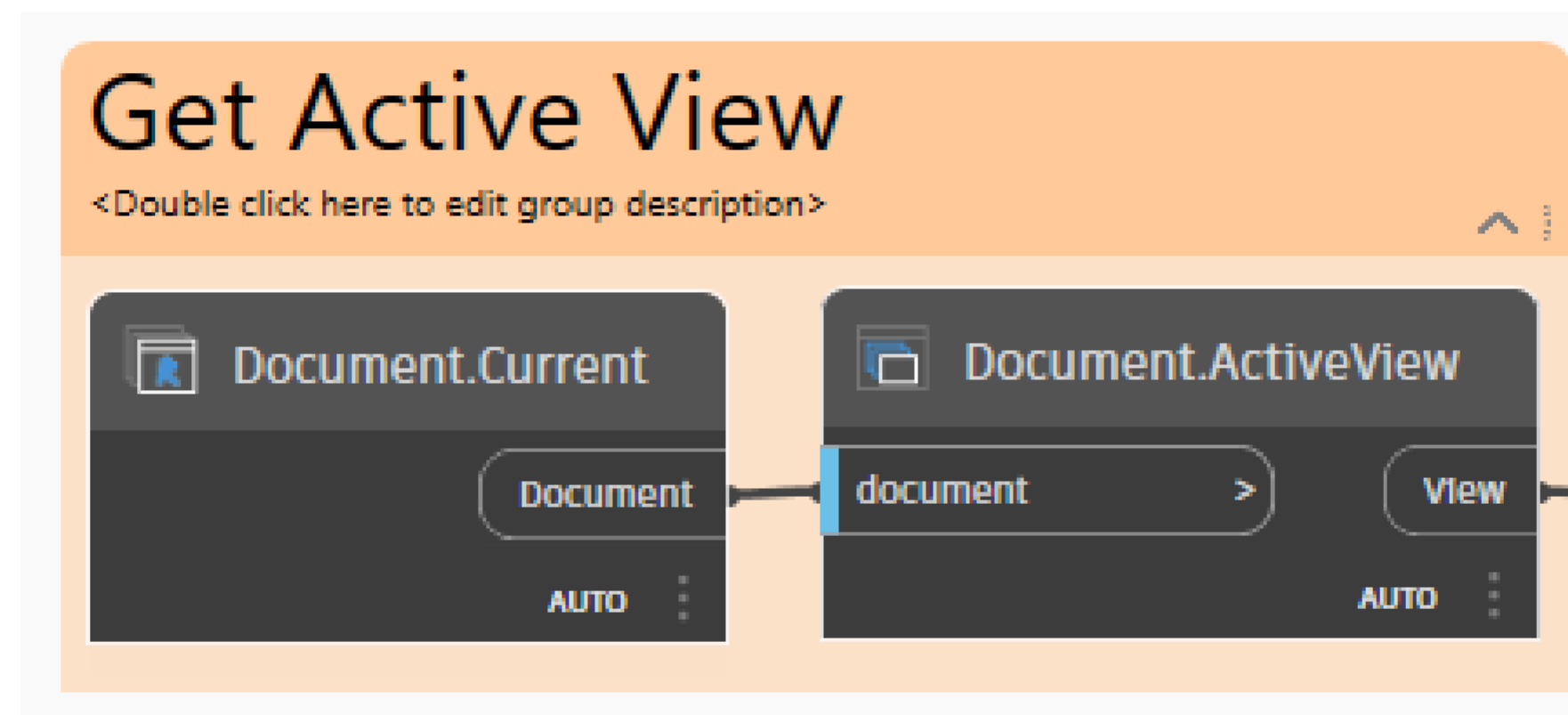
DISABLE PREVIEW



GET DIMENSION TYPE

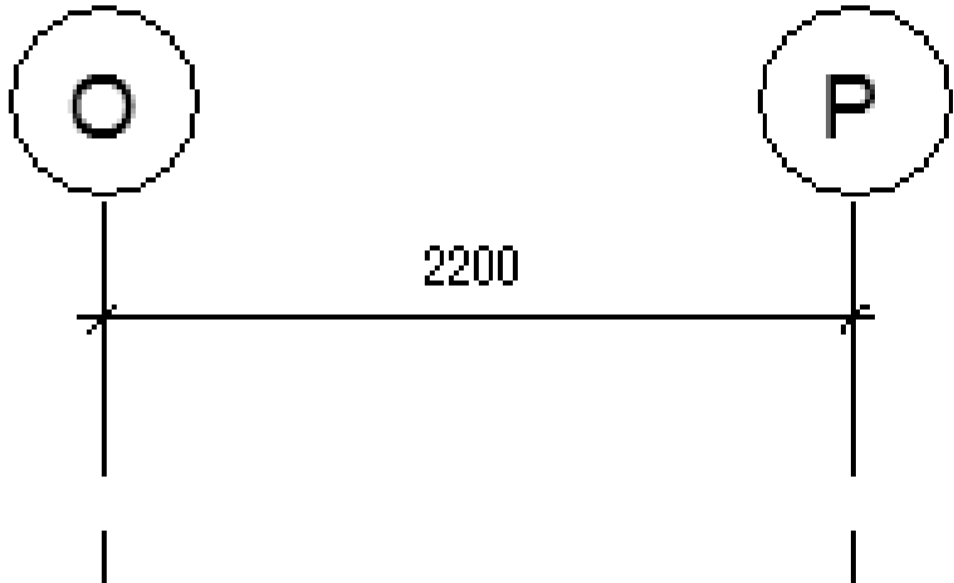
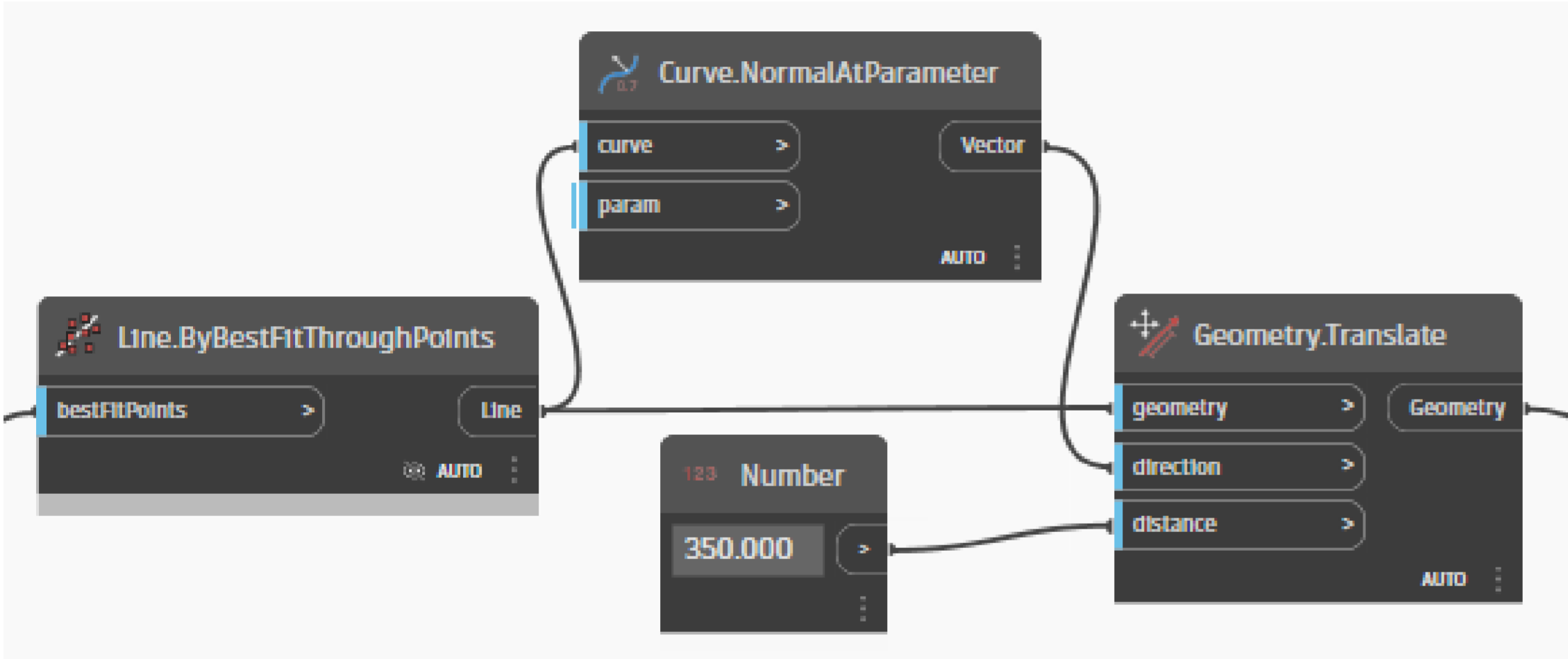


GET ACTIVE VIEW

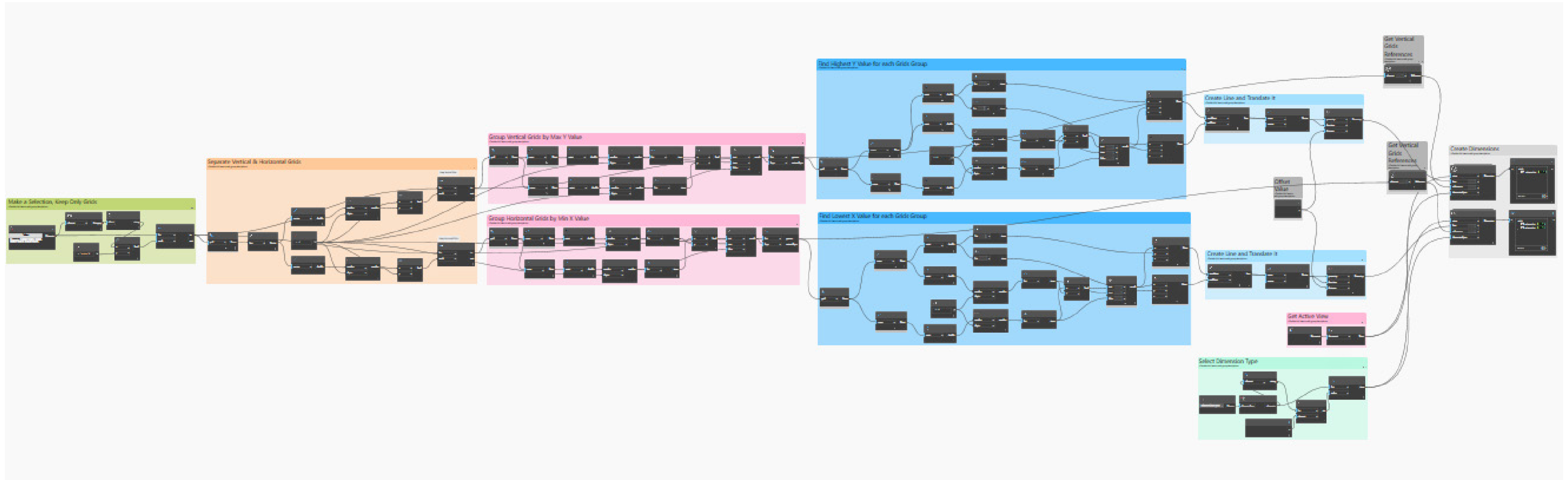


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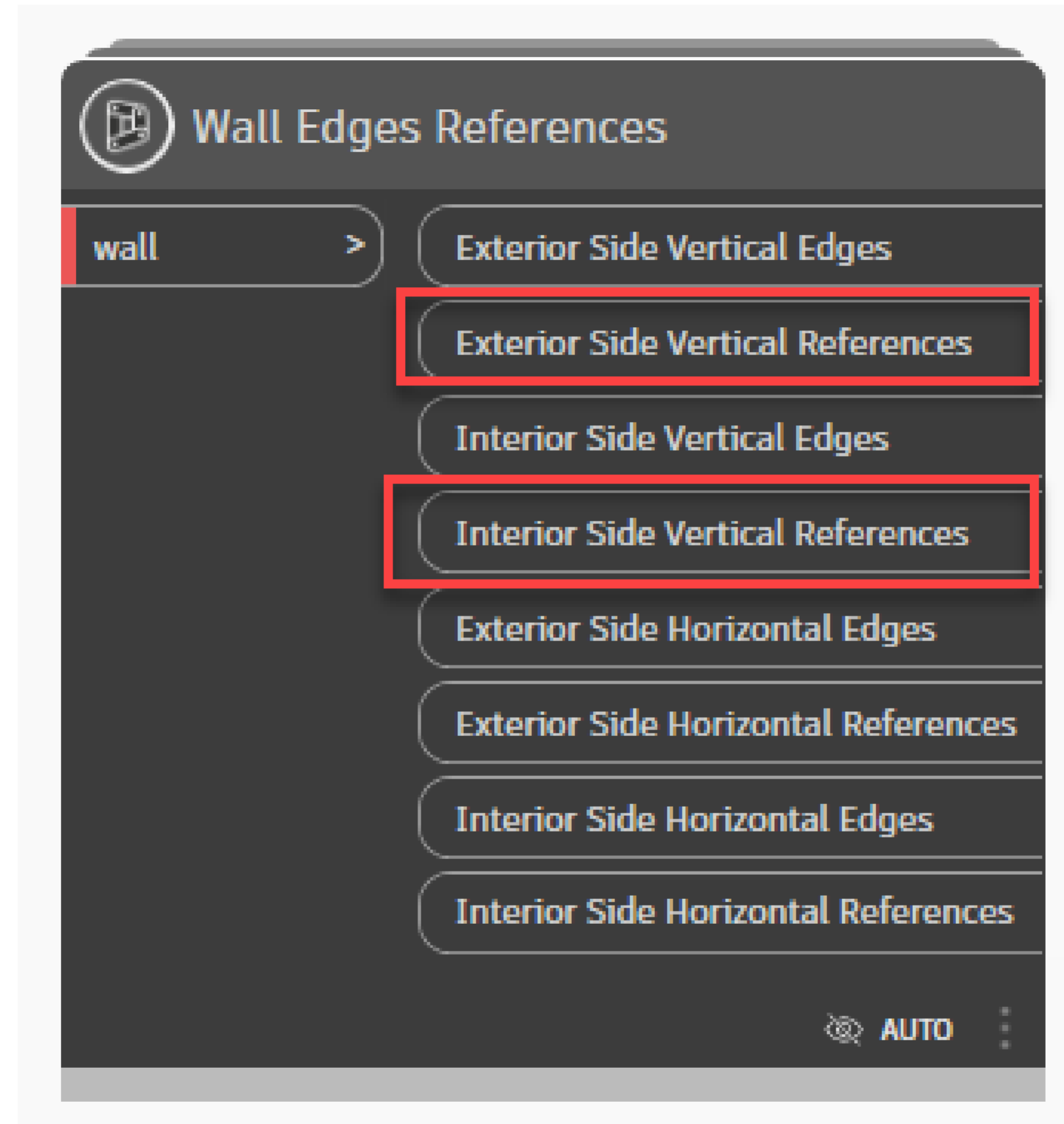
TRANSLATE THE LINE



EXPAND THE SCRIPT



DIMENSIONING WALLS



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DYNAMO PLAYER

RP_Auto Dimension Walls ? ⋮

Description : This script automatically creates dimensions for walls in plan and ceiling plan view. You can pick either the interior or exterior extents of the walls. Make sure to type in the exact type name of the dimension you want to use. You need the GeniusLoci and Iron Python packages installed. This works best with wall using the "Miter" junction type.

Author : BIM Pure Productions / Nicolas Catellier

URL : <https://revitpure.com>

Inputs

Dimension Exact Type Name

TEST

Dimension Offset to Element

350

Select Walls

Total Elements: 0

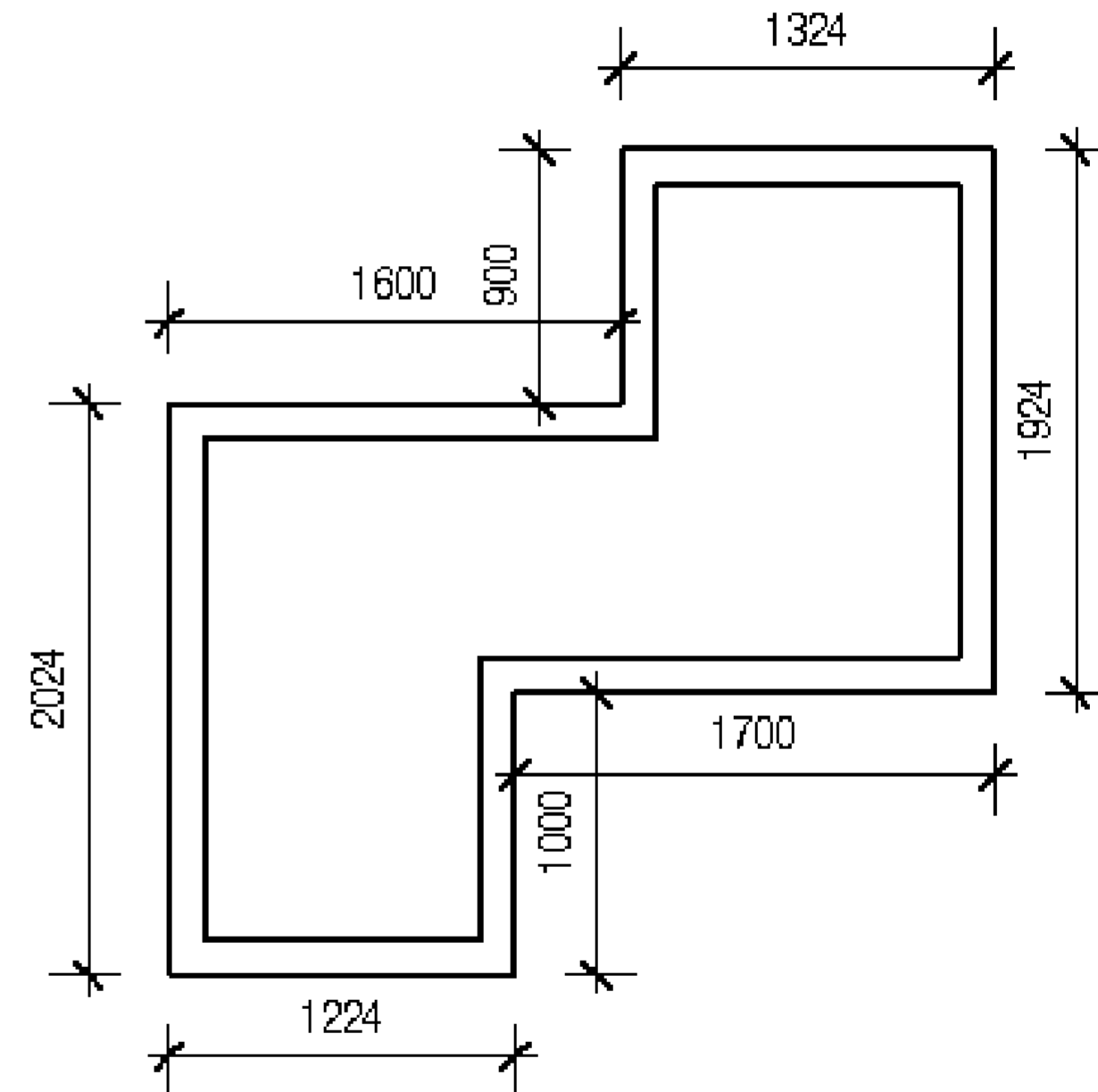
Show Elements



Select

TRUE=Interior Extents, FALSE=Exterior Extents

False True



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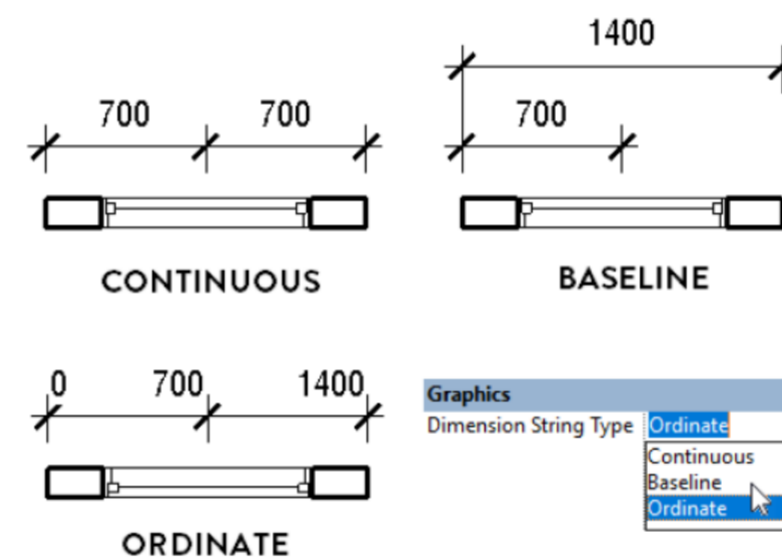
DIMENSIONS PACKAGE



DIMENSIONS

3- UNDERSTAND CONTINUOUS VS BASELINE VS ORDINATE

The first parameter that can be modified is **Dimension String Type**. There are 3 options: **Continuous**, **Baseline** and **Ordinate**. In the image below, you can see the difference between the types. In the next pages, we'll focus on the Continuous option, which is the most commonly used. We'll come back to Baseline and Ordinate later.



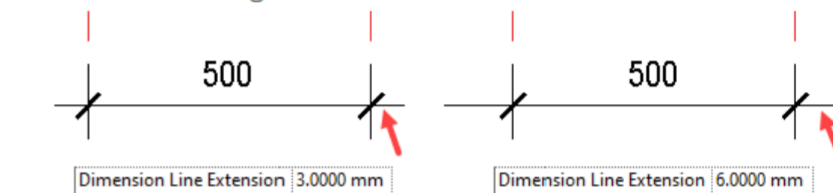
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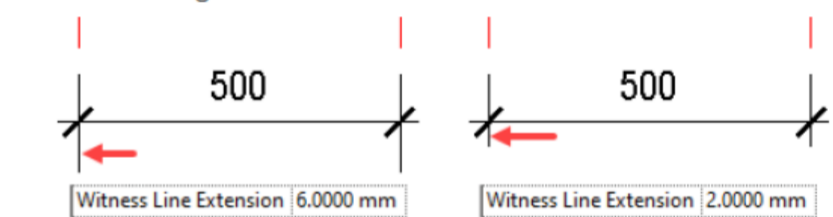
DIMENSIONS

4- SET WITNESS & DIMENSION LINES OPTIONS

Dimension Line Extension refers to extension lines perpendicular to the elements being dimensioned.



Witness Line Extension refers to exterior extension lines parallel to the element being dimensioned.



Witness Line Control: There are two options: **Gap to Element** lets you decide the distance between the element and the witness line. **Fixed to Dimension Line** lets you set a specific length for the witness line.



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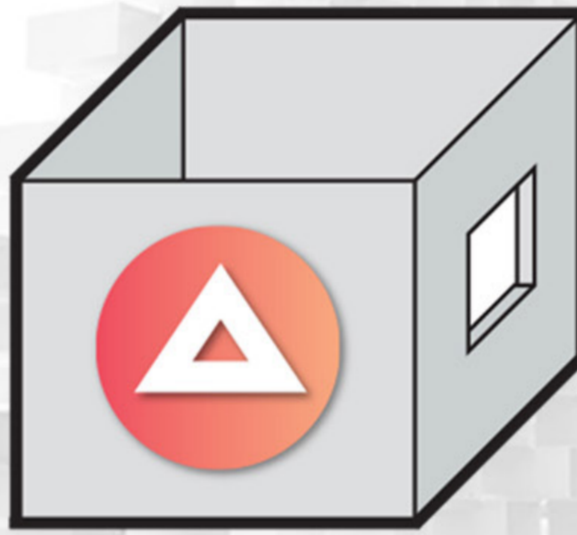
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LEARNING PACKAGES FOR REVIT

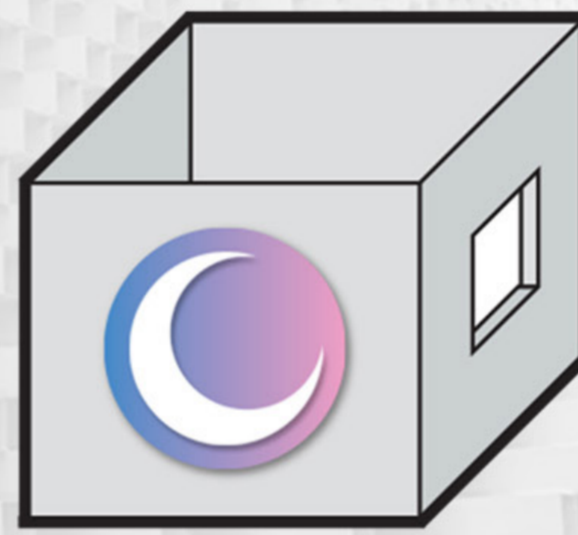
25% OFF + BONUS
UNTIL JUNE 6TH



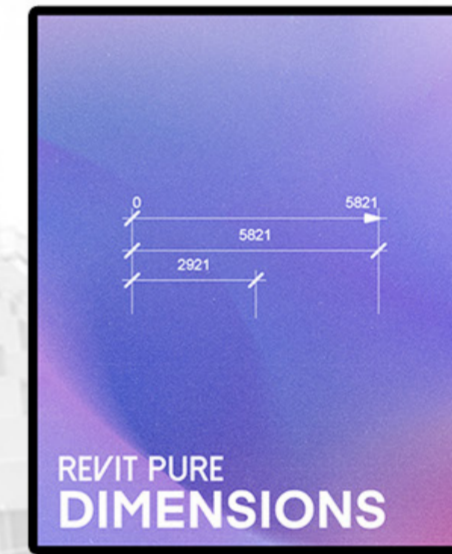
BASICS



DESIGN



MANAGE



BONUS:
DIMENSION

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