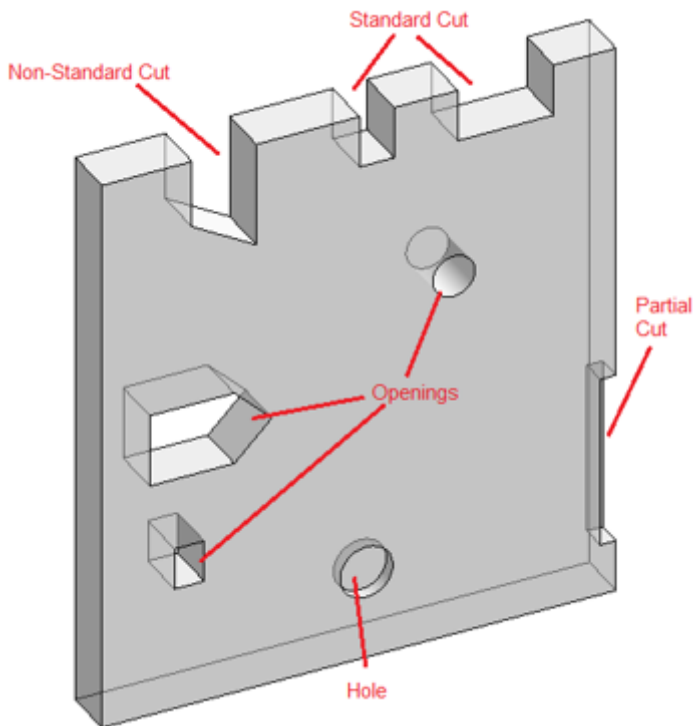


Dimensioning Rules - Main Element Geometry

Modified on: Fri, 12 Jun, 2020 at 10:51 AM



Definitions:

Cut – is on the edge of the element

Standard Cut – of rectangular shape

Non-Standard Cut – of non-rectangular shape (e.g. polygon, triangle)

Partial Cut – doesn't penetrate the full thickness of the element

Opening – is within the exterior boundary of the element

Hole – an opening which doesn't penetrate the full thickness of the element

All dimensioning rules of openings are located in Shop Drawing Configuration – Dimensioning Rules under **Main Element Geometry**:

Dimensioning Rules

Dimensioning Rule : Precast beam front Save Duplicate Rename Delete

Common Dimensioning in View Dimensioning Rules NonStandardCuts StandardCuts Openings Split Dimensions on Equality

Main Element Geometry

Hosted Metal Details

Hosted Concrete Details

Smart Dimensions

	Join Dimension Lines	
Side (left/right/top/bottom) elements in View	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Front elements in View	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Back elements in View	<input type="checkbox"/>	<input type="checkbox"/>

Notes:

Possible Categories: Wall, Parts, Floors, Columns, Framing, Foundations and Generic Models which can host rebar. Element must have at least one joined or not joined solid. Dimensioning functions takes only one solid with the largest volume. The element can have face based steel or concrete nested details.

Preview - Front and Left Elevation

Common Dimensioning in View

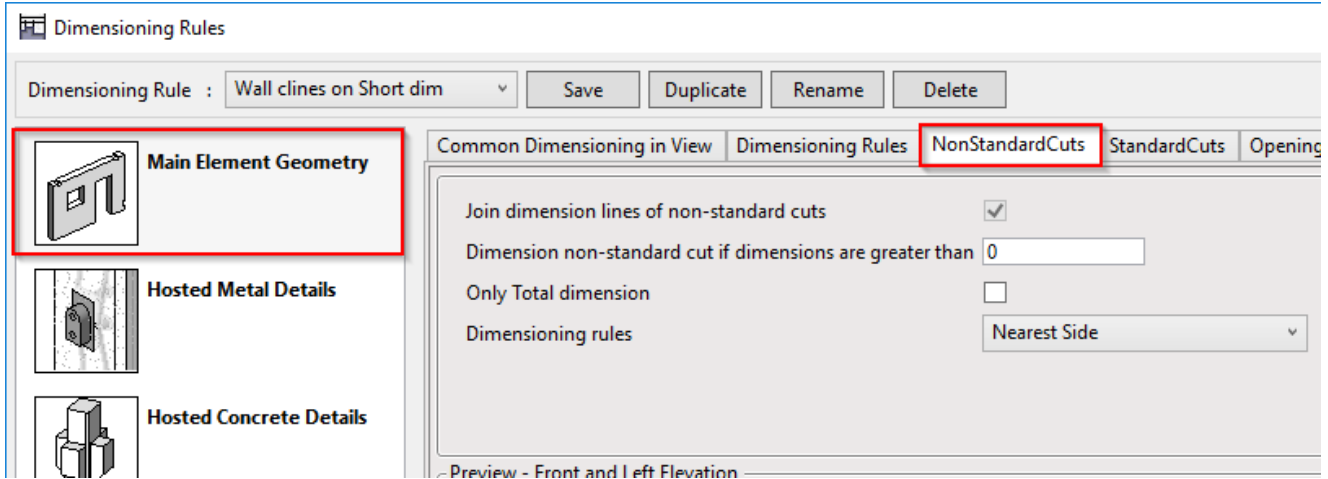
Here you can:

- Select which cuts should be dimensioned. Use the checkbox.

- Switch priority. Drag & drop selected element up and down.
- Join Dimension Lines. Use checkbox to join dimensioning lines of Front, Back or Side cuts/holes. Select at least two of them. Some cuts may belong to multiple positions, for example, Front & Side at the same time. So, if Side is selected as First in priority, then that cut will be joined with other elements that are Side cuts.

Example:

NonStandard Cuts



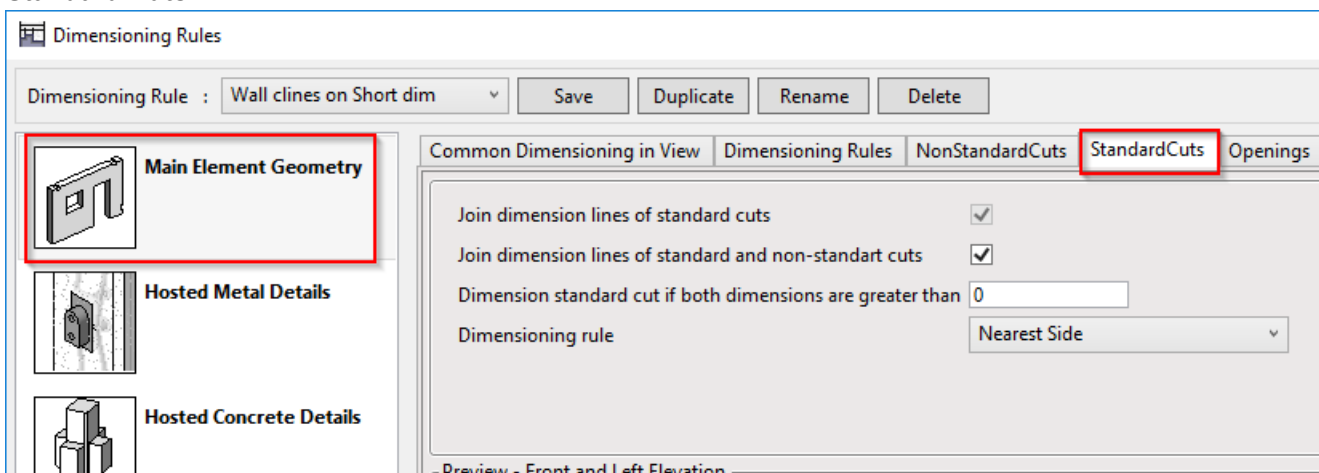
Join dimension lines of non-standard cuts – tick ON to place all Non-Standard Cuts' dimensions on the same line.

Dimension non-standard cut if dimensions are greater than – this value limits the size of cuts which will be dimensioned in the view.

Only Total dimension – tick ON to dimension only the outer boundaries of a cut. (Excludes dimensions of other points of the cut.)

Dimensioning rules – position of dimensions.

Standard Cuts



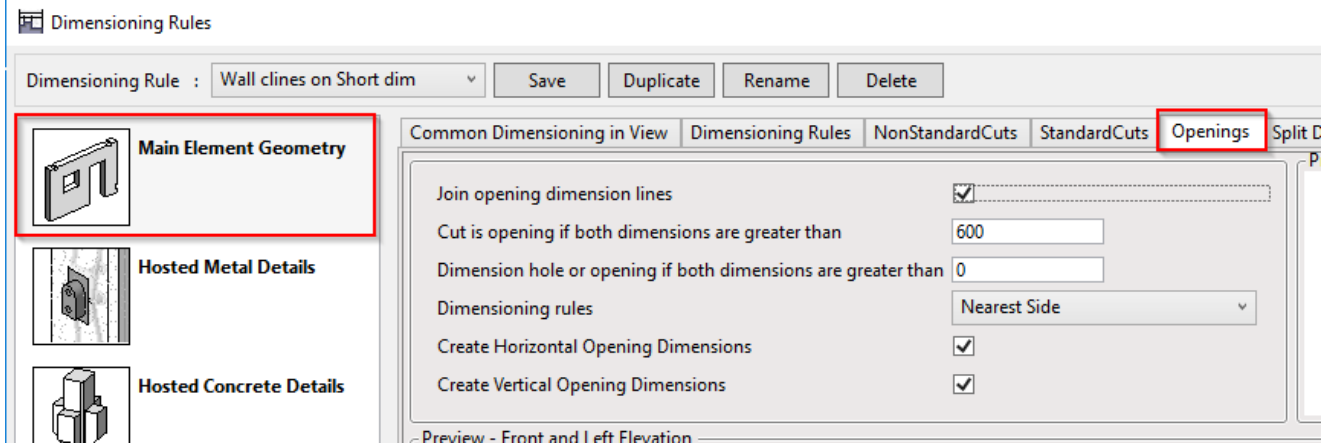
Join dimension lines of standard cuts – tick ON to place all Standard Cuts' dimensions on the same line. (Active only if checkbox below is OFF.)

Join dimension lines of standard and non-standard cuts – tick ON to place both types of cut dimensions on one line and give a note as Standard Cut.

Dimension standard cut if both dimensions are greater than – this value limits the size of cuts that will be dimensioned in the view.

Dimensioning rule – position of dimensions.

Openings



Join opening dimension lines – tick ON to place all Opening dimensions on the same line.

Cut is opening if both dimensions are greater than – this value defines whether cut will be dimensioned as a cut or an opening.

Dimension hole or opening if both dimensionings are greater than – this value limits the size of openings that will be dimensioned in the view.

Dimensioning rules – position of dimensions.

Create Horizontal/Vertical Opening Dimensions – turn ON/OFF selected dimension

Split dimensions on equality

Split dimensions on equal segments – switch ON/OFF to join/separate equal dimensions to one line with expression of $\text{times} \times \text{distance} = \text{total distance}$

Minimum number of equal segments to begin splitting – minimum number of same distances to join equal dimensions to one expression

Note: Dimensioning of Cuts and Openings can be switched ON/OFF in Dimensioning & Priority Notes. See more information in Dimensioning Priority & Notes help file.

Dimensioning Rules

Dimensioning Rule : Wall clines on Short dim Save Duplicate Rename Delete

Main Element Geometry

Hosted Metal Details

Hosted Concrete Details

Smart Dimensions

Rebar Bars

Dimensioning Priority & Notes

Note Positioning

Dimensioning Priority and Notes

Dimension	Short Dimension	Item	Note	Quantity	Text Note Text	Text Note Para
1	<input type="checkbox"/>	Opening	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Opening	-- None --
2	<input type="checkbox"/>	Standard Cut	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Standard Cut	-- None --
3	<input type="checkbox"/>	NonStandard C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	NonStandard C	-- None --
4	<input type="checkbox"/>	Partial Cut	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Partial Cut	-- None --
5	<input type="checkbox"/>	Hole	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Hole	-- None --
6	<input type="checkbox"/>	Smart Dimensi	<input checked="" type="checkbox"/>	<input type="checkbox"/>		-- None --
7	<input checked="" type="checkbox"/>	Hosted Metal E	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Hosted Metal E	-- None --
8	<input type="checkbox"/>	Hosted Concre	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Hosted Elemer	Type
9	<input type="checkbox"/>	Rebar Bars	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Rebar Bars	Type
10	<input type="checkbox"/>	Sweep	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Sweep	-- None --
11	<input type="checkbox"/>	Grid	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Grid	-- None --
12	<input checked="" type="checkbox"/>	Gravity Point	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Gravity Point	-- None --
13	<input checked="" type="checkbox"/>	Total Dimensio	<input type="checkbox"/>	<input type="checkbox"/>	Plate	Type

Dimension Text Note Formula

Available Parameters:

Parameter Name	Prefix	Suffi
1 Quantity		x
2 Text Note		

Preview