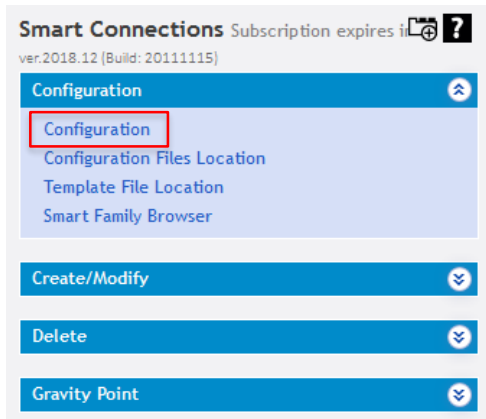
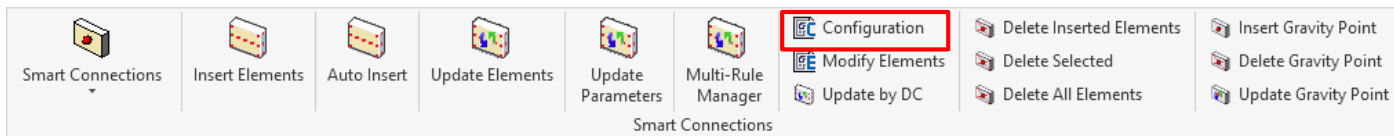


An abstract graphic composed of several overlapping, tilted rectangular frames. Some frames are white wireframes, while others are solid blue. They are arranged in a dynamic, non-orthogonal composition, creating a sense of depth and architectural structure. The background is a photograph of a modern, empty parking garage with concrete pillars and a blue-painted floor.

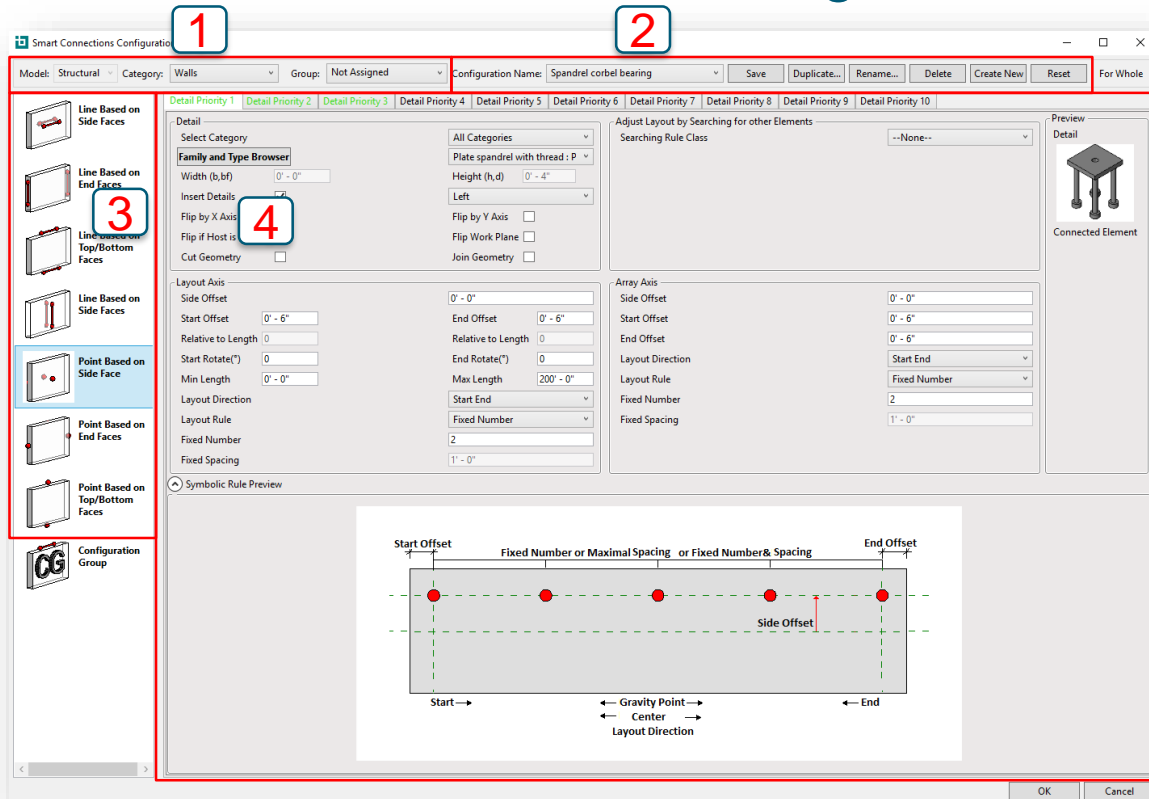
Smart Connections Configurations Guide

Inserting elements



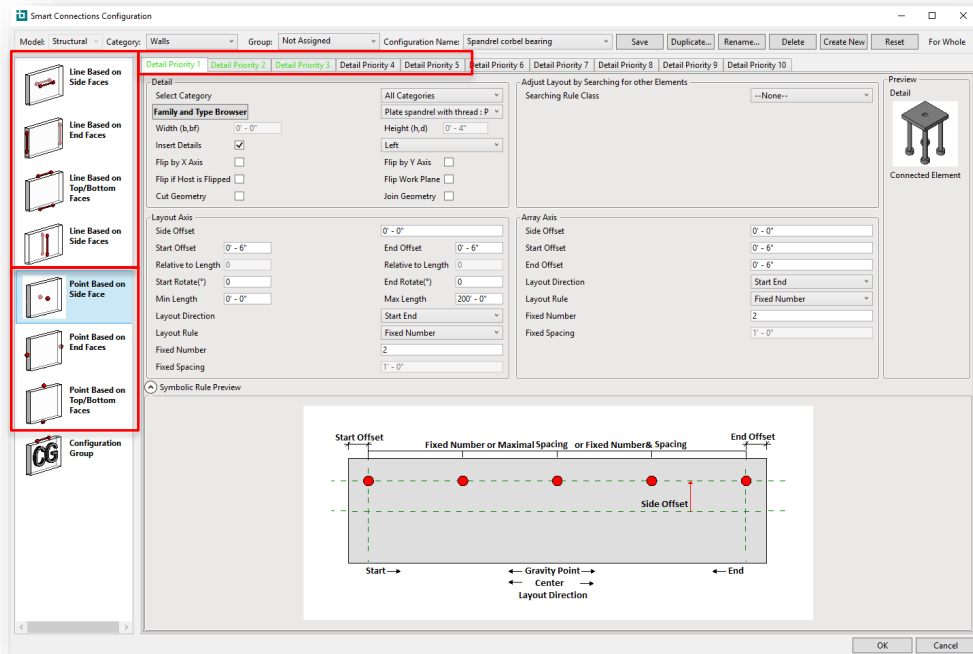
- The first step in using Smart Connections is preparing configurations, i.e. setting up rules governing which elements should be inserted where.
- Cuts and elements can be inserted with Smart Connections to the following element categories: Walls, Parts, Structural Framing, Line-based Generic Models (can host rebar), Columns, Foundations
- Elements that can be used for cuts and elements are point- and line-based families of the following categories: Generic Models, Structural Framing, and Structural Connections

Smart Connections – Configuration Window



1. Select available categories to create new configurations. Also Group them in separate groups.
2. Duplicate, save, rename, or delete configurations.
3. Select the face of the element where you want to insert your line- or point-based elements.
4. Setup rules to insert elements and cuts.

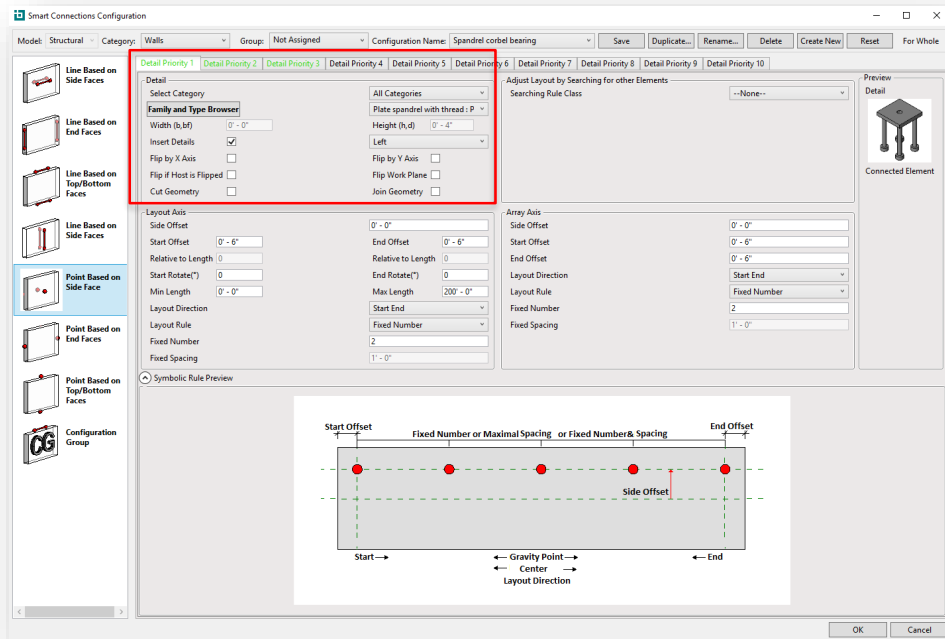
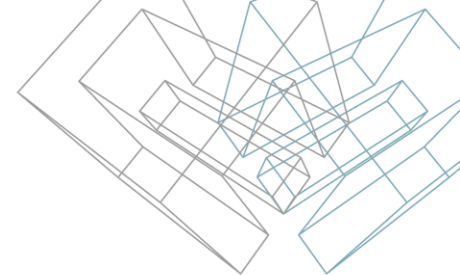
Insert elements rule set up 1



1. Select if you want to insert line-based or point-based elements.
2. Select Detail Priority tab and prepare your rules.

Note: Line-based are created with the help of a Generic Model line-based family template, and point-based – from Generic Model face-based family template.

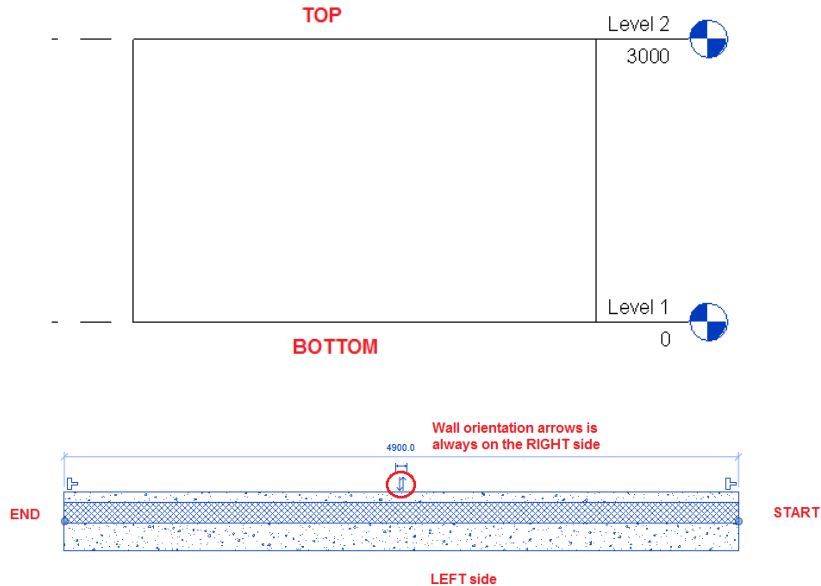
Insert elements rule set up 2



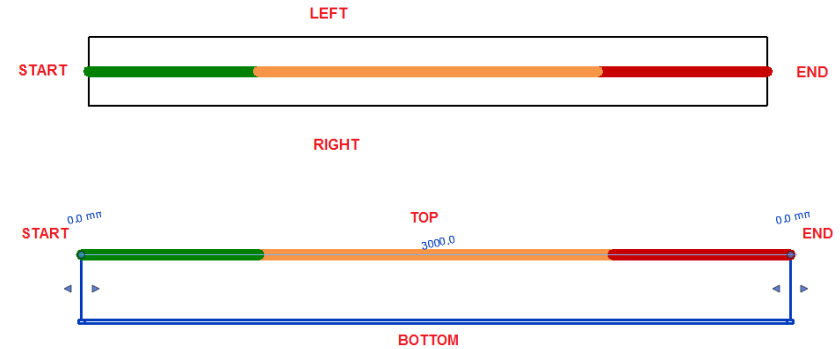
1. Select Category of detail from available Generic Model, Structural Framing, or Structural Connections.
2. Select Family and Type.
3. Check 'Insert Details' box.
4. Select Flip Work Plane, if necessary (vertical and horizontal control arrows should be added inside the family to make it work)
5. Select Face on which elements should be inserted (see next page for explanation)

Element orientation

Wall orientation

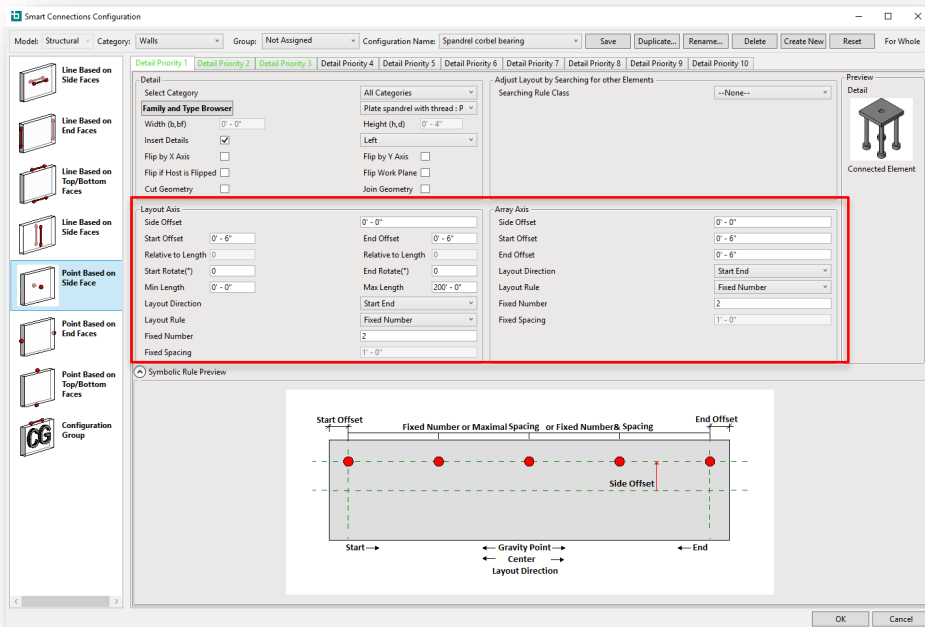
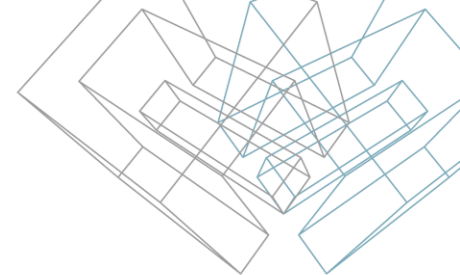


Beam orientation



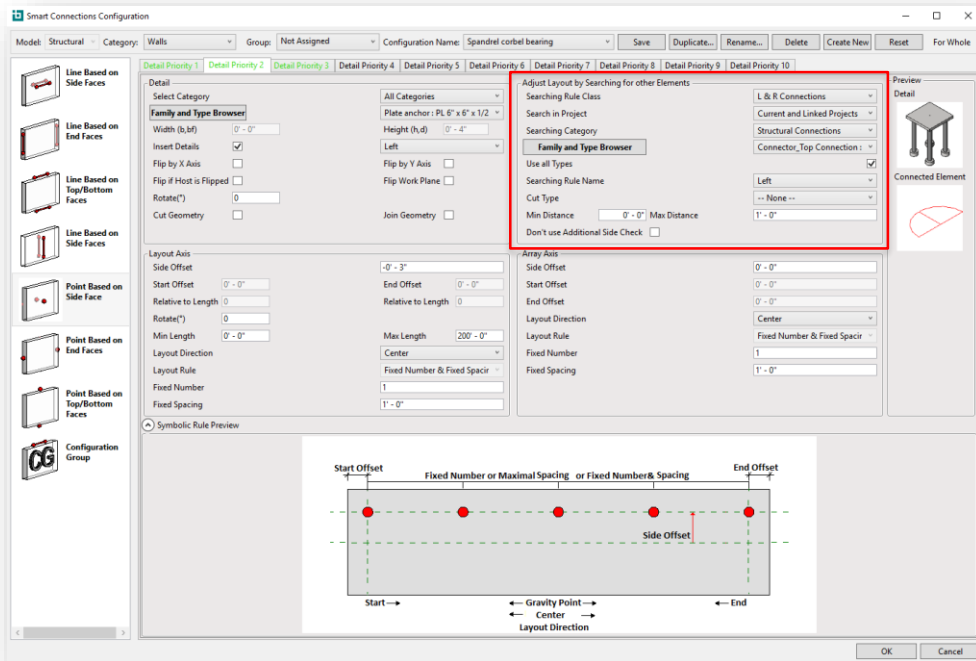
Note: Beam start point is the first point you select when you define its place. Also you can see start point by analytical line – green is start, red is end.

Insert elements rule set up 3

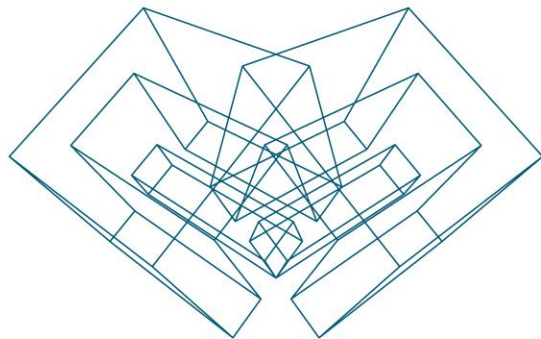


- Enter values according to the pictures at the bottom of the dialog.
- Layout direction can be defined from Center, Start, End, or Start End. For point-based elements on Top and End faces, you can insert elements according to **Gravity point**.
- There are different Layout rules for different Layout Direction rules.

Insert elements rule set up 4



- ‘Layout Correction by Elements’ lets you search for cuts, solids, Structural Framing or Structural Connection elements on different faces. Also, find connections between different elements like wall-wall, column-structural framing, etc.
- Use these rules accordingly as displayed in the pictures at the bottom of the dialog.



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