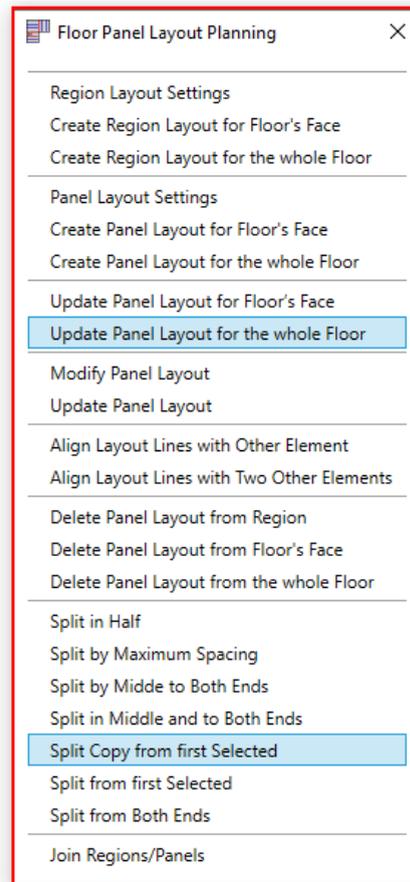
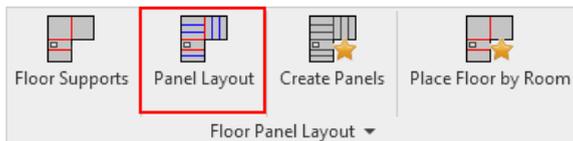


# Panel Layout

Modified on: Wed, 5 Aug, 2020 at 2:35 PM

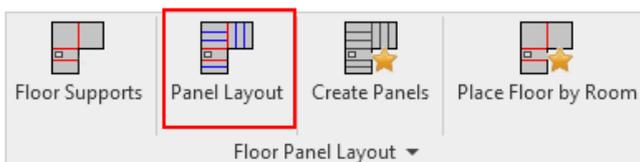
- Use the **Panel Layout** command to subdivide an existing Revit floor into smaller segments.
- You can define Floor Supports beforehand, or you can lay out floor panels independent from floor supports.
- **Floor Panel Layout Planning** is for dividing and splitting a floor into prefabricated panels.

Note: You can control every division line and automate the division process by modifying rules.

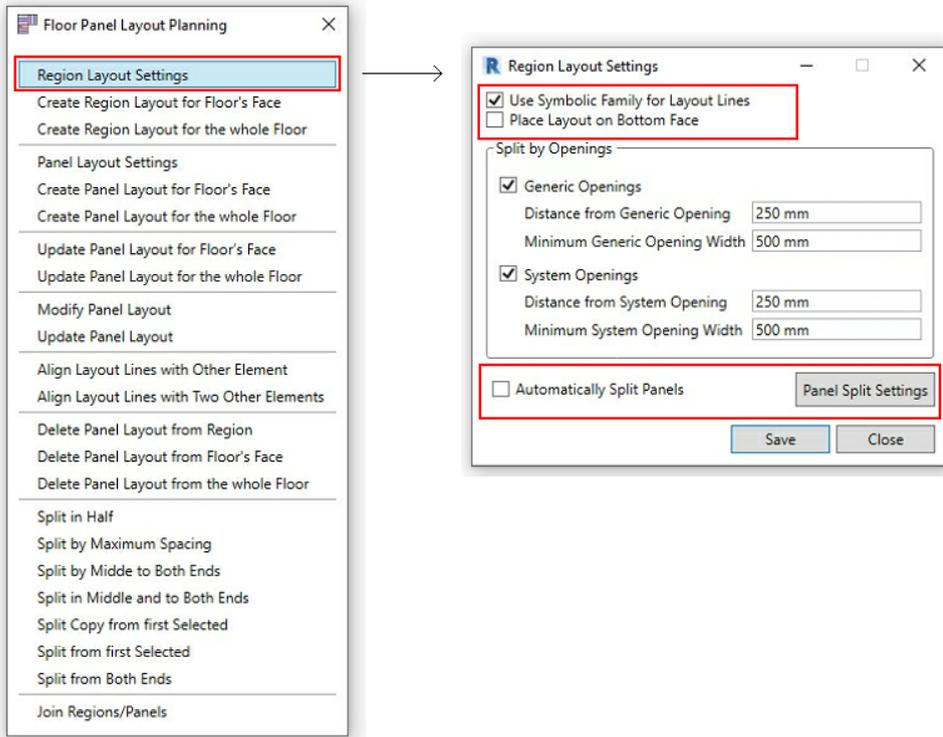


Let's go through the options in **Panel Layout**.

In the **Floor Panel Layout** menu, select **Panel Layout**.

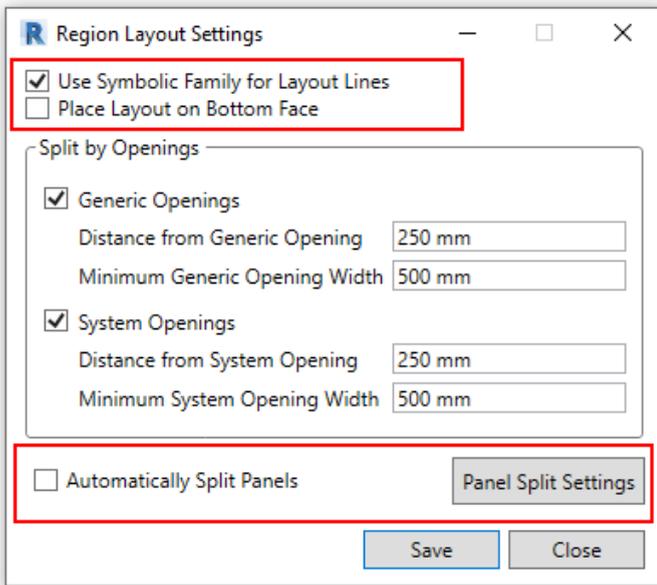


Now select **Region Layout Settings** at the top of the list in the **Floor Panel Layout Planning** menu. Note that Region Layout is for coarse partitioning of floors; these regions can later be divided into panels for prefabrication.



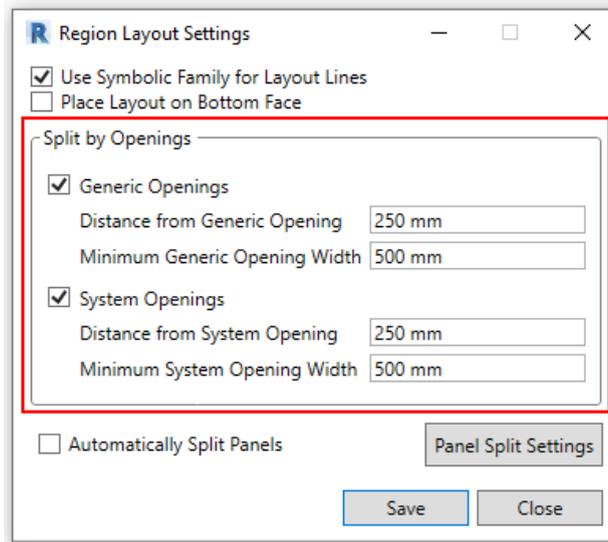
Regions can be created automatically by using floor edges and supports (split lines), as well as using **Generic** or **System Openings** with predefined distances.

Looking in the **Region Layout Settings** dialog:



- **Use Symbolic Family for Layout Lines** – tick ON to add Symbolic Family to represent layout arrangement and direction
- **Place Layout on Bottom Face** – tick ON to create Floor Panel Layout on floor's bottom face; tick OFF to create layout on upper face
- **Automatically Split Panels** – tick ON to create panels along with regions when using either the **Create Region Layout for Floor's Face** function or **Create Region Layout for the whole Floor** function.

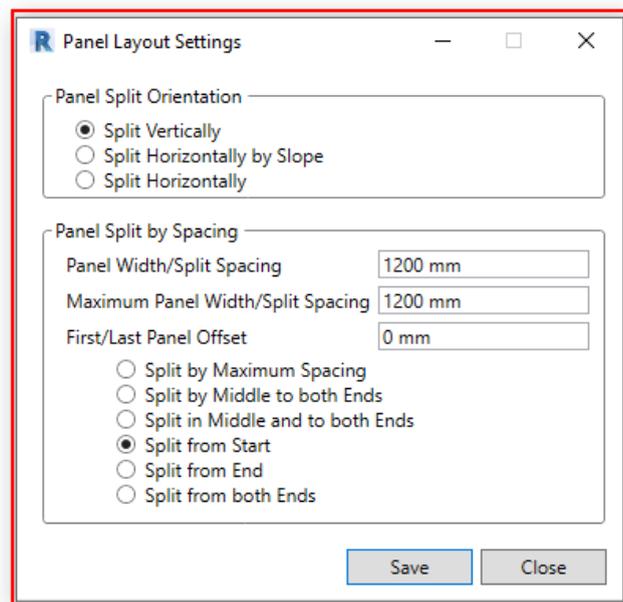
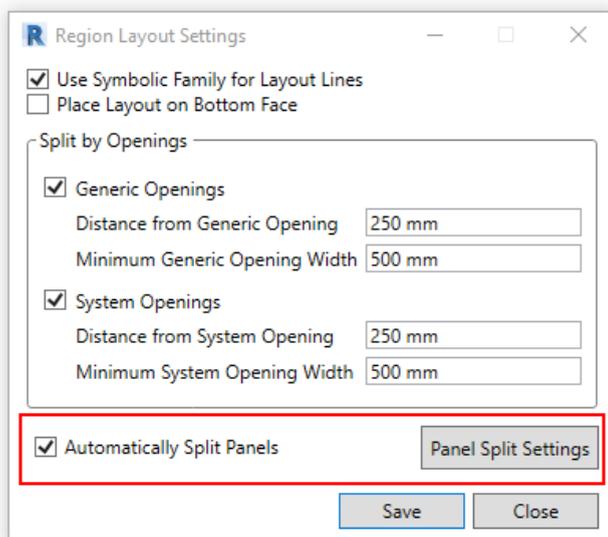
Looking at the **Split by Openings** section:



• **Generic Openings** – tick ON to offset splits on both sides by a predefined Distance from Generic Opening that exceeds the predefined Minimum Generic Opening Width

• **System Openings** – tick ON to offset splits on both sides by a predefined Distance from System Opening that exceeds the predefined Minimum System Opening Width

**Panel Split Settings** – click this button to open a dialog wherein settings for panel layout planning can be predefined to automatically split floor panels by size, spacing, orientation, or offset.



• **Panel Split Orientation** – allows you to orient panel vertically, horizontally by slope, or horizontally

Panel Split by Spacing

- **Panel Width/Split Spacing** – predefined spacing for panel splitting
- **Maximum Panel Width/Split Spacing** – predefined maximum spacing for panel splitting
- **First/Last Panel Offset** – predefined first/last spacing for panel splitting.

**Split by Maximum Spacing** - splits selected region by maximum spacing as predefined in configuration in Panel Layout Settings.

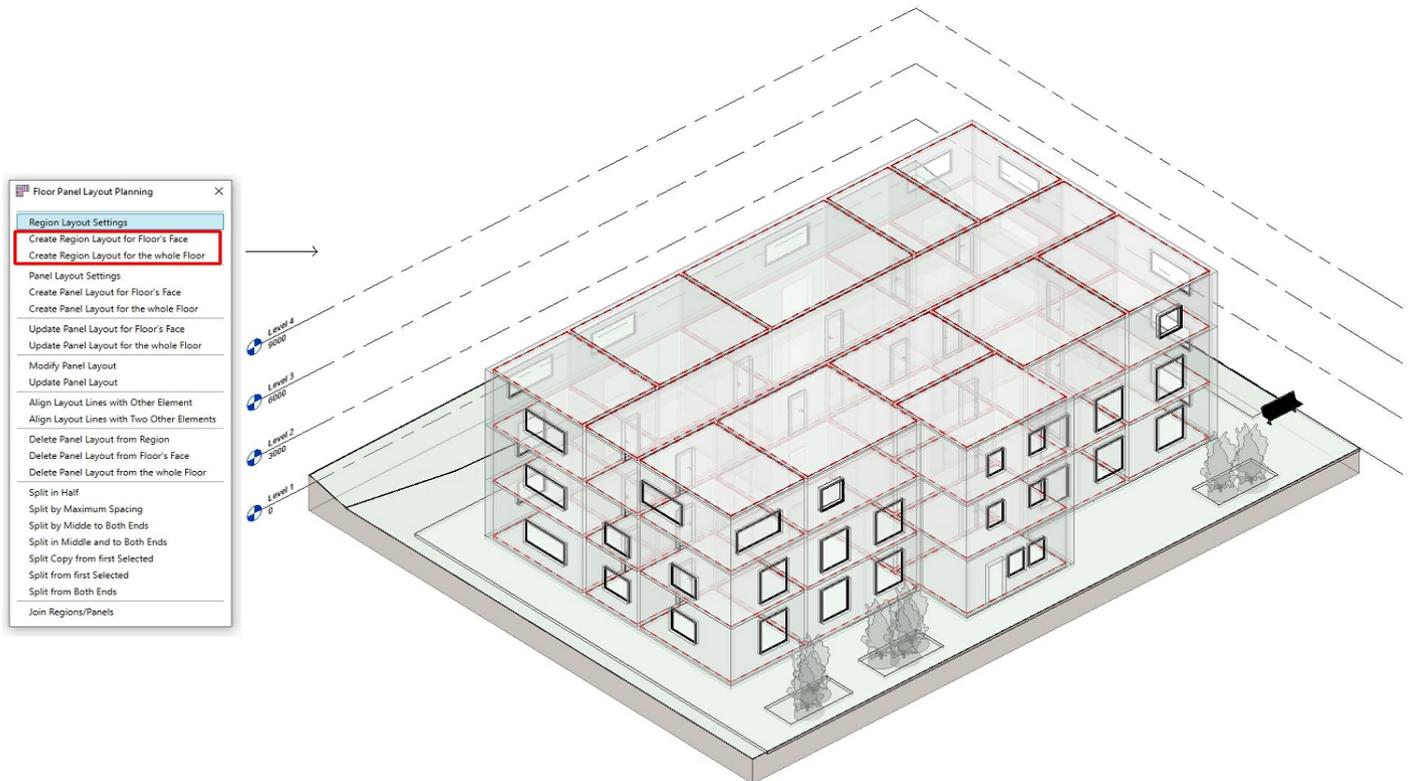
**Split by Middle to Both Ends** - splits selected region from the middle to both ends by spacing as predefined in configuration in Panel Layout Settings.

**Split in Middle and to Both Ends** - splits selected region in its middle and arrays splits to both ends by spacing as predefined in configuration in Panel Layout Settings.

**Split from Start/End** - splits selected Region from Start/End by spacing as predefined in configuration in Panel Layout Settings.

**Split from Both Ends** - splits selected Region from both ends by spacing as predefined in configuration in Panel Layout Settings.

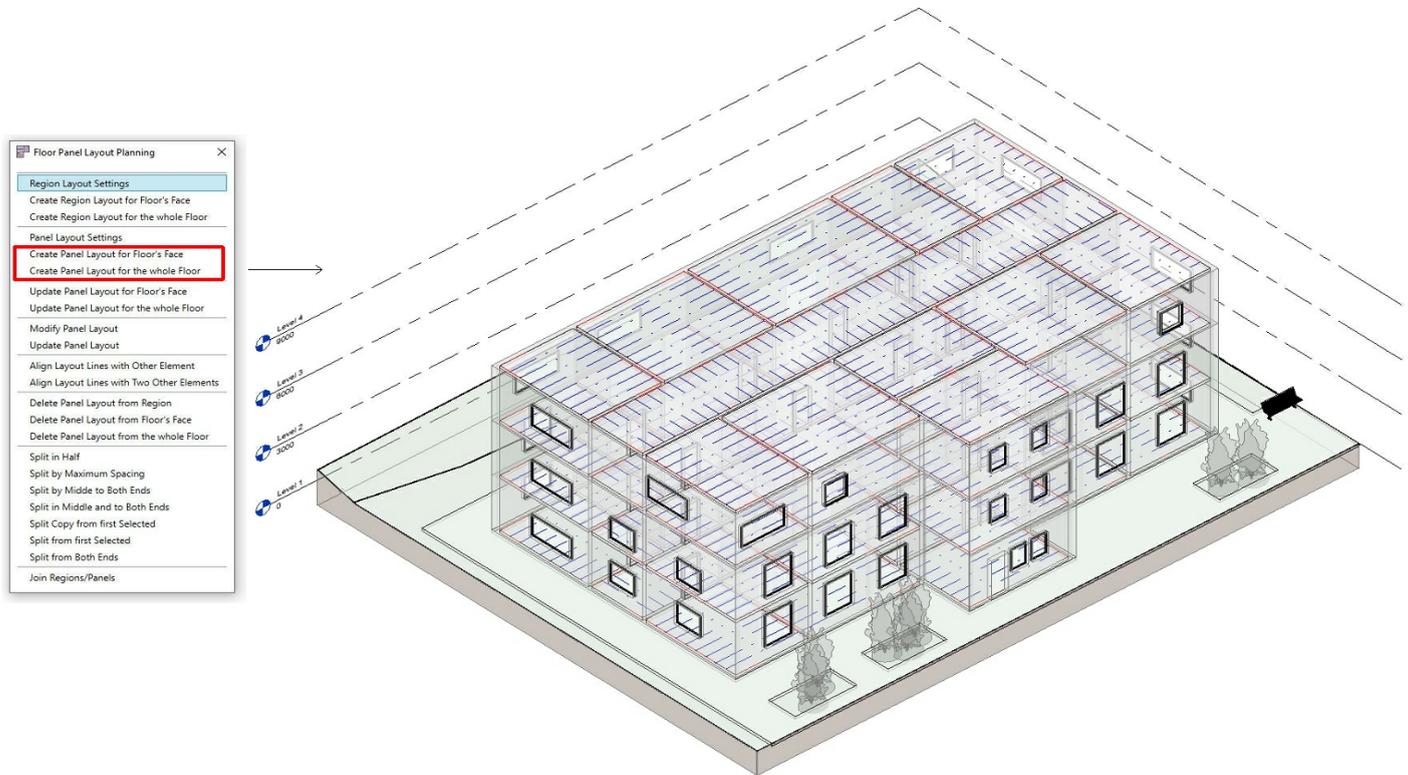
## Create Region Layout for Floor's Face/whole Floor



- Multi-select all floors of the same type
- Select **Create Region Layout for Floor's Face/whole Floor** from **Floor Panel Layout Planning** menu to create region layout by predefined rules for the selected face of a floor or an entire floor.

Note: Regions are indicated with dashed red lines.

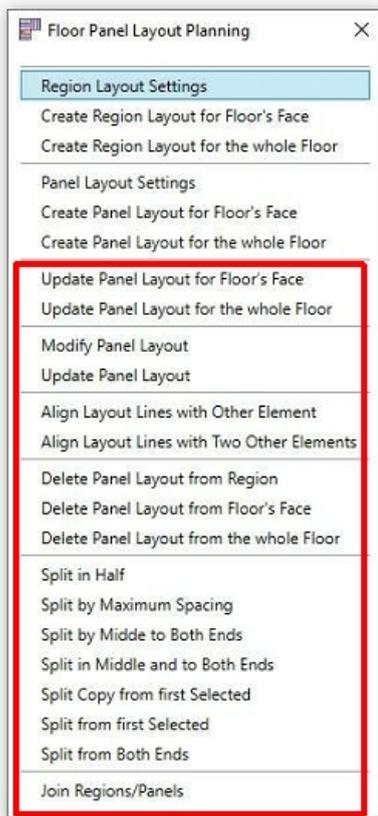
## Panel Layout Settings



- Multi-select all floors of the same type
- Select **Create Panel Layout for Floor's Face/whole Floor** from **Floor Panel Layout Planning** menu to create panel layout by predefined rules for the selected face of a floor or an entire floor.
- Regions can be divided into panels by predefined spacing (as shown previously)
- Panel layout is used to split a floor into segments for prefabrication
- Panel layout later will be converted into actual Floor panels

Note: Panels are indicated with dotted blue lines

Let's look at the remaining functions available in the Floor Panel Layout Planning menu.



**Update Panel Layout for Floor's Face** - updates region and panel layouts according to floor geometry changes for the selected face of a floor. Region and panel layouts will be re-created by the default region and panel layout settings.

**Update Panel Layout for the whole Floor** - updates region and panel layouts according to floor geometry changes for the entire selected floor. Region and panel layouts will be re-created by the default region and panel layout settings.

**Modify Panel Layout** - modifies selected panel layout. You can define layout rules and spacing.

**Update Panel Layout** - updates panel layout according to **Modify Panel Layout** settings.

**Align Layout Lines with Other Element** - aligns all layout lines in one region with one selected line from another region.

**Align Layout Lines with Two Other Elements** - aligns all layout lines in one region with two selected lines from another region.

**Delete Panel Layout from Region** - deletes panel layout from the selected region.

**Delete Panel Layout from Floor's Face** - deletes region and panel layouts from the selected face of a floor.

**Delete Panel Layout from the whole Floor** - deletes region panel layouts from the entire selected floor.

**Split in Half** - splits selected region or panel in half.

**Split by Maximum Spacing** - splits selected region or panel by maximum spacing as predefined in configuration in panel layout settings.

**Split by Middle to Both Ends** - splits selected region or panel from the middle to both ends by spacing as predefined in configuration in panel layout settings.

**Split in Middle and to Both Ends** - splits selected region or panel in its middle and arrays splits to both ends by spacing as predefined in configuration in panel layout settings.

**Split Copy from first Selected** - creates a copy and splits selected region or panel from the first selected line by spacing as predefined in configuration in Panel Layout Settings.

**Split from First Selected** - splits selected region or panel from the first selected line by spacing as predefined in configuration in panel layout settings.

**Split from Both Ends** - splits selected region or panel from both ends by spacing as predefined in configuration in panel layout settings.

**Join Regions/Panels** - joins two regions or panels into one by deleting the selected line.