

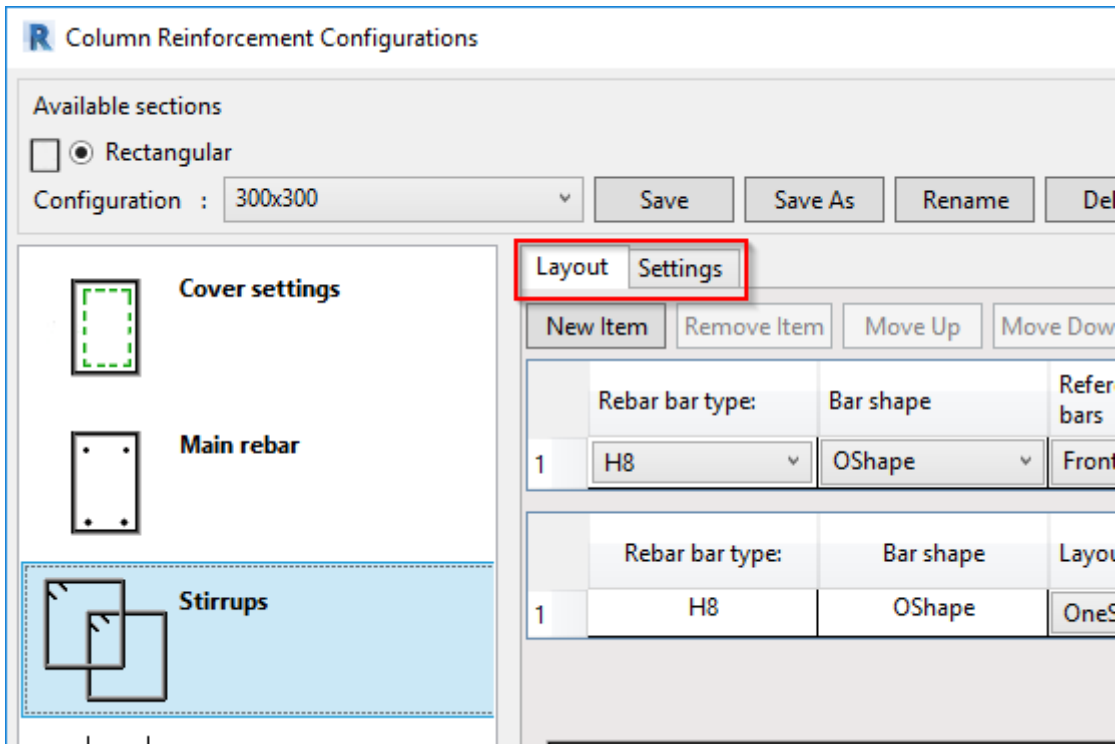
Rebar Configurations – Stirrups

Modified on: Fri, 18 Sep, 2020 at 10:03 AM

After number and position of *Main rebar* have been defined, it's time to set up stirrups.

In the *Stirrups rebar* window there are 2 tabs:

- **Layout** – define reinforcement settings here
- **Settings** – select common settings, like view in Solid, Partition, etc.



In the **Layout** tab, use the New Item button to insert as many rows as needed. Use the adjacent buttons to move a row up or down or remove it.

Column Reinforcement Configurations

Available sections
 Rectangular
 Configuration : Sample 2 Save Save As Rename Delete

Layout Settings

New Item Remove Item Move Up Move Down

	Rebar bar type:	Bar shape	Reference bars	First bar	Second bar	Offset	Rebar start hook type:	Rebar end hook type:	
1	H8	OShape	Front1	1	4	0 mm	Stirrup/Tie - 135	Stirrup/Tie - 135	
2	H8	OShape	Front1	1	4	0 mm	Stirrup/Tie - 135	Stirrup/Tie - 135	

	Rebar bar type:	Bar shape	Layout type	L1	L2	L3	Step L1	Step L2	Step L3	Start Offset	End Offset
1	H8	OShape	OneStep	0	1	0	200 mm	200 mm	200 mm	800 mm	50 mm
2	H8	OShape	OneBar	1	5	0	200 mm	100 mm	200 mm	200 mm	50 mm

Layout rule - One Step

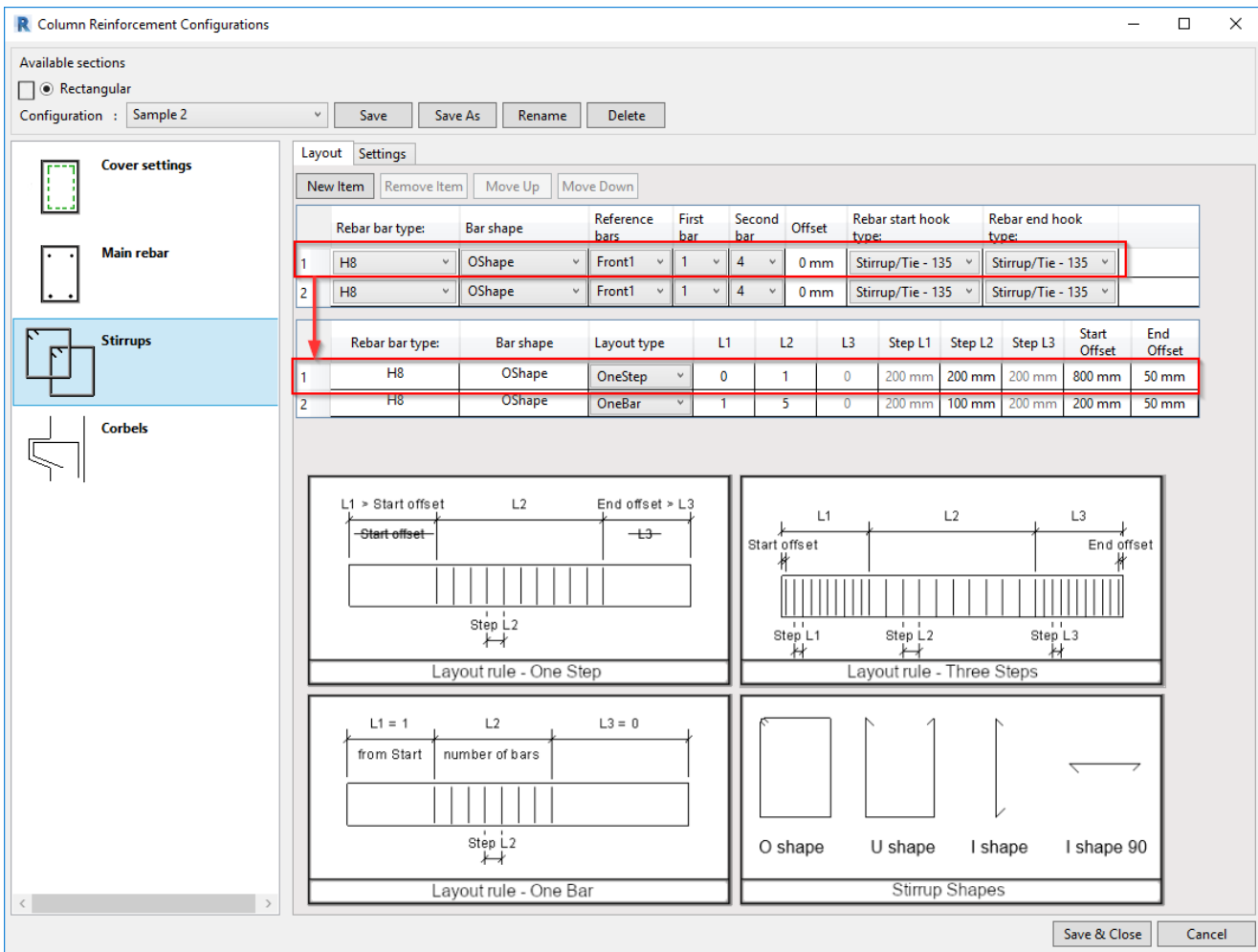
Layout rule - Three Steps

Layout rule - One Bar

Stirrup Shapes

Save & Close Cancel

Settings for stirrups are configured in the table. Note that there is only one table; it is simply divided into an upper and lower part to avoid being excessively wide (the rows of the "upper" table continue as the rows of the "lower" table).



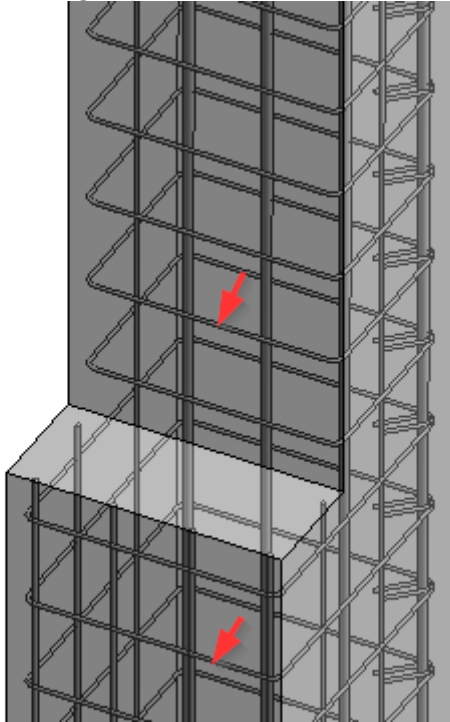
The upper table has settings for rebar type and shape while the lower table is for configuring stirrup layout along the column.

Let's go through the available settings:

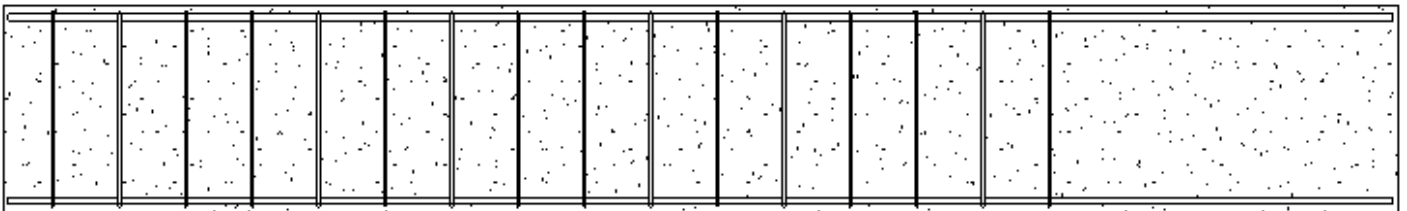
- **Rebar bar type** – Select Structural Rebar type.
- **Bar shape** – Select from available stirrup shapes described in the image shown at the bottom of the window.
- **Reference bars** – Pick Row position of Main rebar. You are able to tie selected bars of that row.
- **First/Second bar** – Here you have numbers of *Main rebar* at selected *Row position*, counting from left to right. Select bar numbers to be tied to selected stirrup shape.

For example, if you select Back1 and define that an O-shaped stirrup should go around 1 and 2 bar, then the stirrup

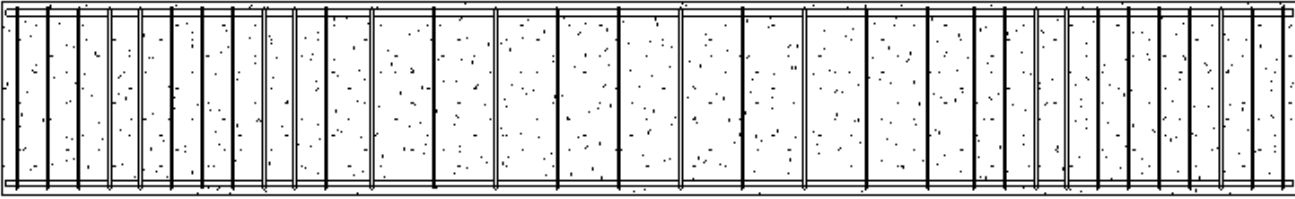
will tie them and go up to the Front direction to the nearest face of the column.



- **Rebar start/end hook type** – hook types for stirrup ends.
- **Layout Type**– Select layout rule for selected stirrup:
 - **One Step** – one set of rebar within defined distance of column
 - **L1** – defines start offset of stirrup layout. Value is relative to columnlength. Will work if value is greater than *Start offset*.
 - **L2** – defines length of stirrup layout. Relative value is used, 1 = full length of the column.
 - **L3** – defines end offset of stirrup layout. Value is relative to columnlength. Will work if value is greater than *End offset*.
 - **Step L1** – not active, has no influence
 - **Step L2** – step of stirrup layout
 - **Step L3** – not active, has no influence
 - **Offset at start** – offset from start of column
 - **Offset at end** – offset from end of column



- **Three Steps** –from 1 to 3 sets of rebar, may have different steps in each set
 - **L1** – distance for stirrup layout at the start of the column. Value is relative to column length.
 - **L2** – distance for stirrup layout at the middle part of the column. Value is relative to column length.
 - **L3** – distance for stirrup layout at the end of the column. Value is relative to column length.
 - **Step L1** – step of stirrups in L1
 - **Step L2** – step of stirrups in L2
 - **Step L3** – step of stirrups in L3
 - **Offset at start** – offset from start of column
 - **Offset at end** – offset from end of column



- **One Bar** – one set of rebar with defined number of bars
 - **L1** – value may be 0 or 1. If 1, then layout will begin from start of column and value of L3 will change to 0.
 - **L2** – number of bars
 - **L3** – value may be 0 or 1. If 1, then layout will begin from end of column and value of L1 will change to 0.
 - **Step L1** – not active, has no influence
 - **Step L2** – defines step of stirrups
 - **Step L3** – not active, has no influence
 - **Offset at start** – offset from start of column
 - **Offset at end** – offset from end of column

