



Andhra Pradesh State Skill Development Corporation





ARCHITECTURAL MODELING USING REVIT

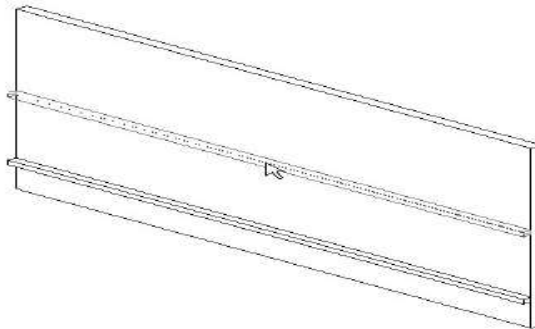
PROFILE CREATION

WALL WEEPS & REVEALS

WALL SWEEPS


Use Sweep tool to add a baseboard, crown molding, or other type of decorative horizontal or vertical projection to a wall. You can add a wall sweep to a wall from a 3D or elevation view.

1. Open a 3D or elevation view containing the wall to which you want to add the sweep.
2. Click Architecture tab ► Build panel ► Wall drop-down ►  (Wall: Sweep).
3. In the Type Selector, select the desired type of wall sweep.
4. Click Modify | Place Wall Sweep ► Placement panel, and select the orientation of the wall sweep: Horizontal or Vertical.
5. Place the cursor over the wall to highlight the wall sweep location. Click to place the wall sweep.
6. Add the wall sweep to adjacent walls, if needed.
7. Revit preselects the wall sweep location on each adjacent wall.
8. If you are in a 3D view, you can add a wall sweep to all exterior walls by using the View Cube to rotate the view.
9. To start a wall sweep in a different location, click Modify | Place Wall Sweep tab ► Placement panel ►  Wall Sweep Restart. Move the cursor to the desired location on the wall, and click to place the wall sweep.
10. To finish placing wall sweeps, click Modify.






Add or Remove Segments for a Wall Sweep

You can continue an existing sweep onto new walls, or remove segments from existing wall sweeps.

1. Open a 3D view and select the desired wall sweep.
2. Click Modify | Wall Sweeps tab ► Wall Sweep panel ►  Add/Remove Walls.
3. Select the walls to continue adding to or removing from the wall sweep.

Change the Wall Sweep Profile


You can change the profile of an existing wall sweep or of one you are about to place.

1. Select a wall sweep in a 3D or elevation view, or click Architecture tab ► Build panel ► Wall drop-down ►  (Wall: Sweep).
2. On the Properties palette, click  Edit Type, or click Modify | Place Sweep tab ► Properties panel ►  Type Properties.
3. In the Type Properties dialog, for Profile, select the desired profile type.
4. Click OK.

Changing the Wall Sweep Type

After placing a wall sweep on a wall, you can change its type to achieve the desired appearance.


1. In the drawing area, select a wall sweep.
2. In the Type Selector, select the desired wall sweep type.

If the desired wall sweep type is not listed in the Type Selector, you can load additional profile families. Click Insert tab ► Load from Library panel ►  Load Family.

Returning a Wall Sweep to the Wall

After placing a wall sweep, you can return its ends back toward the wall.

Note: This procedure is also available for wall reveals.

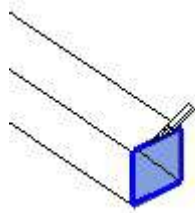
1. In a 3D or elevation view, select the wall sweep segment. Be sure it is not already joined to another segment.
2. Click Modify | Wall Sweeps tab ► Wall Sweep panel ►  (Modify Returns).

The Straight Cut and Return options display on the Options Bar. The Straight Cut is a perfectly squared off edge. This option is not available if the sweep end is already in this state.

3. Select Return, and enter a value for Angle.

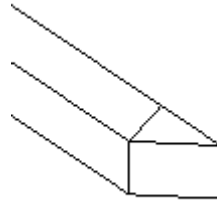
Note: A positive return angle moves the sweep end toward the wall. A negative value moves the sweep end away from the wall. For reveals, a positive return value moves the reveal end away from the wall, and a negative value moves the end toward the wall.

4. Highlight the wall sweep end.



Highlighted wall sweep end

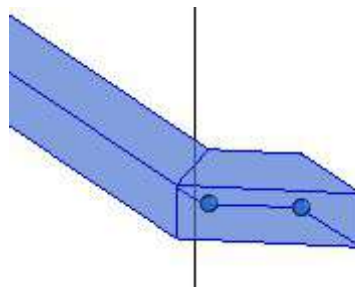
- Click to apply the new return value.



Applied return value

In this example, the option Straight Cut becomes available. Select that option, and click the sweep end to apply a straight cut to the sweep.


After you change the return, you can drag the end of the sweep or reveal to extend the return. Select the wall sweep, and use the blue dot drag control.

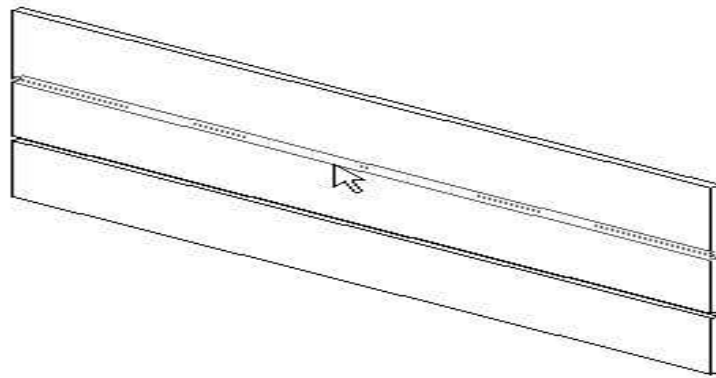


Drag the right blue control

WALL REVEALS


Use the Reveal tool to add a decorative horizontal or vertical cutout to a wall in an elevation or 3D view.

- Open a 3D or non-parallel elevation view.
- Click Architecture tab ► Build panel ► Wall drop-down ►  (Wall: Reveal).
- In the Type Selector, select the desired type of wall reveal.
- Click Modify | Place Wall Reveal ► Placement panel, and select the orientation of the wall reveal: Horizontal or Vertical.
- Place the cursor over the wall to highlight the wall reveal location. Click to place the reveal.
- Add the reveal to adjacent walls if needed.
Revit preselects the reveal location on each adjacent wall.
- To finish placing wall reveals, click in the view away from the wall.







Add or Remove Segments for a Wall Reveal

You can continue an existing reveal onto new walls, or remove segments from a reveal.

1. Open a view that displays the reveal, and select the reveal.
2. Click Modify | Reveals tab ► Reveal panel ►  Add/Remove Walls.
3. Select the walls to continue adding to or removing from the reveal.
4. Click Modify to exit the tool.

Change the Wall Reveal Profile

You can change the profile of an existing wall reveal or of one you are about to place.

1. Select a wall reveal in a 3D or elevation view, or click  (Wall: Reveal).
2. Architecture tab ► Build panel ► Wall drop-down ►  (Wall: Reveal)
3. On the Properties palette, click  Edit Type, or click Modify | Place Reveal tab ► Properties panel ►  Type Properties.
4. In the Type Properties dialog, for Profile, select the desired profile type.
5. Click OK.

Change the Wall Type

1. When you create a wall, you specify its type. You can also change the type for an existing wall at any time.
2. To change the wall type assigned to an existing wall, select the wall in the drawing area and then change the Type Selector setting.
3. Alternatively, you can select the wall and convert other selected walls to the same type, as described under Changing Element Types Using the Match Type Tool.

Move a Wall Reveal Away from or Towards the Wall

After placing a wall reveal, you can move its ends away from or toward the wall.

The procedure is the same as moving wall sweeps back to the wall. See Returning a Wall Sweep to the Wall.