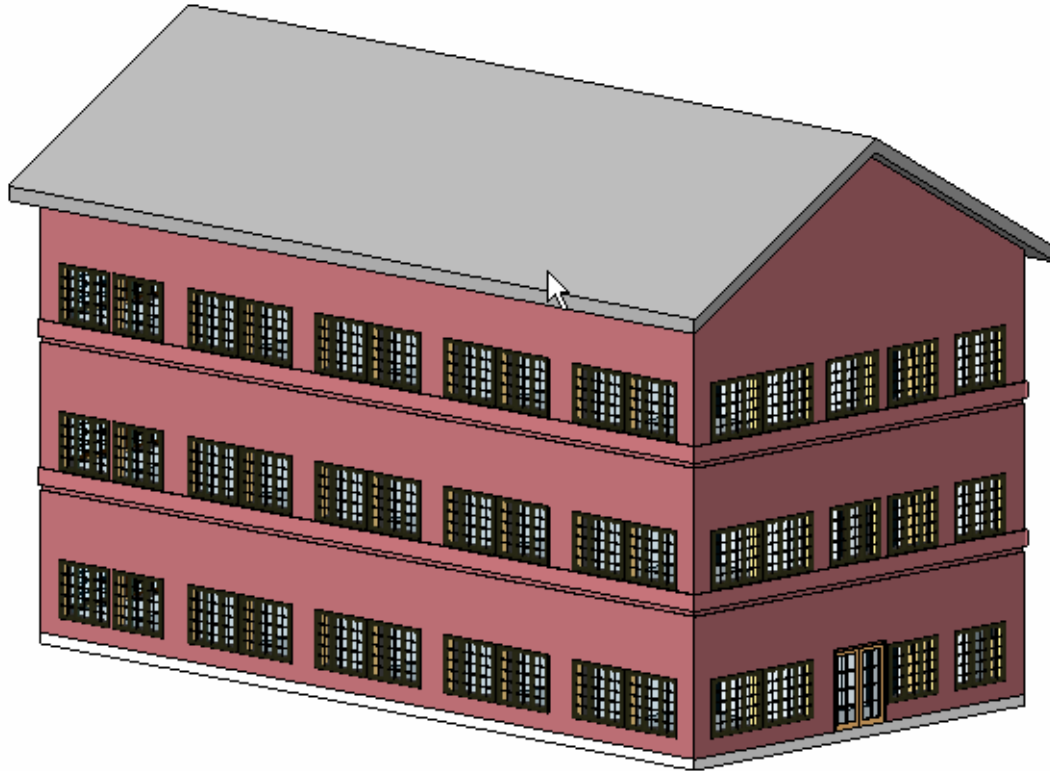


6 - Adding a Roof and Ceiling

In this exercise, you add a gable roof and ceiling to the west wing of the building model.



This exercise requires the completion of the previous exercises in this tutorial. You must use the project you saved at the end of the last exercise.

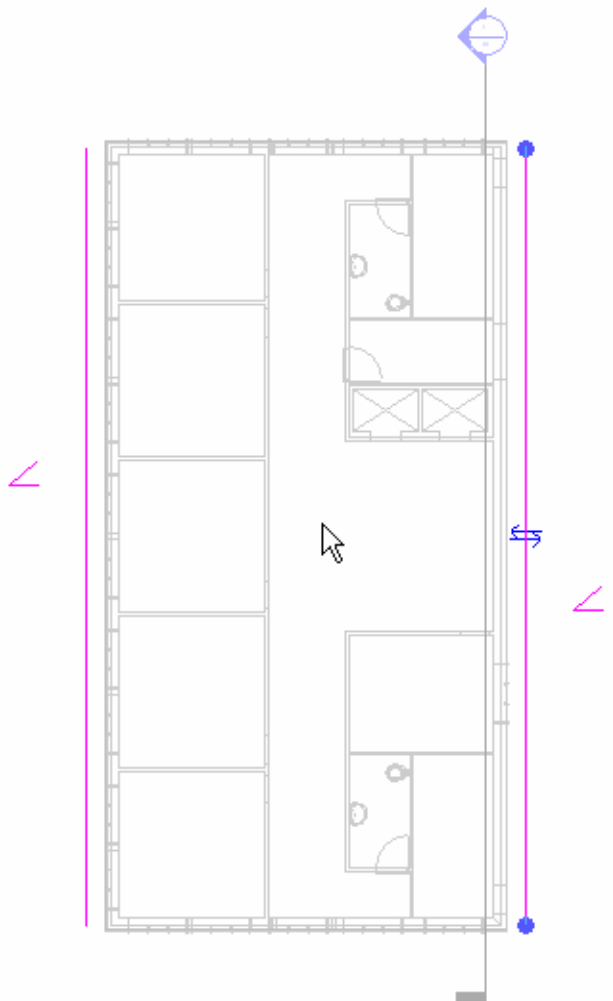
Add a gable roof to the building model

1. In the Project Browser, under Views (all), under Floor Plans, double-click Roof.
2. On the Basics tab of the Design Bar, click Roof Roof by Footprint.

Creating a footprint roof is very similar to creating a floor. Both are sketched components and require you to define the border of the component.

3. On the Design Bar, click Pick Walls.
4. On the Options Bar, select Defines slope and verify that Overhang is 600.
5. Verify that Extend to wall core is cleared.
6. Select the west exterior wall and the east exterior wall.

7. If necessary, click the flip arrows to move the lines outside of the exterior walls.

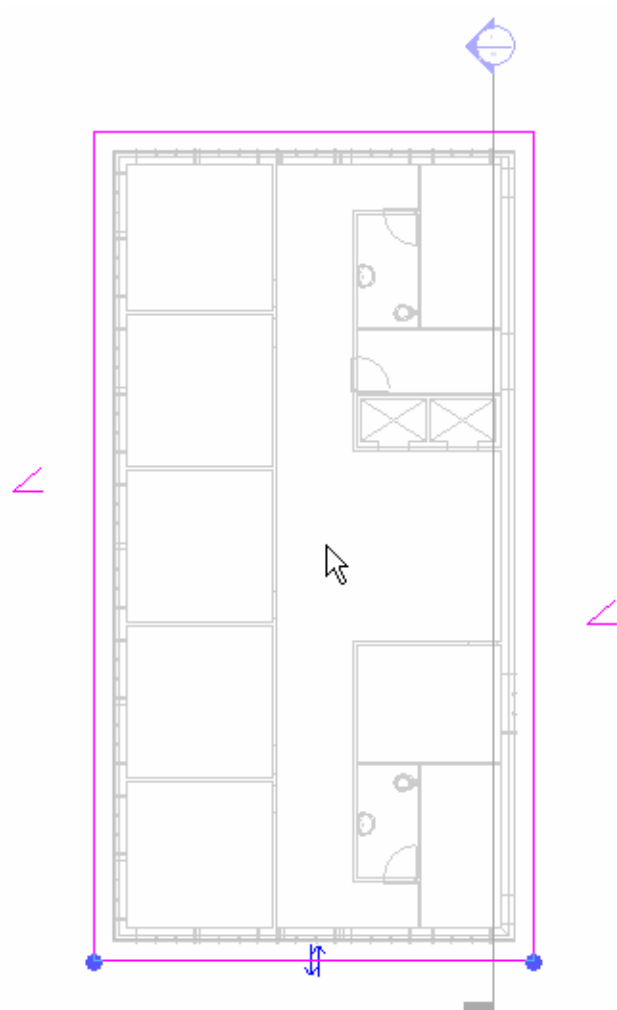


8. On the Options Bar, clear Defines slope.

The north and south sides of the roof are not sloped.

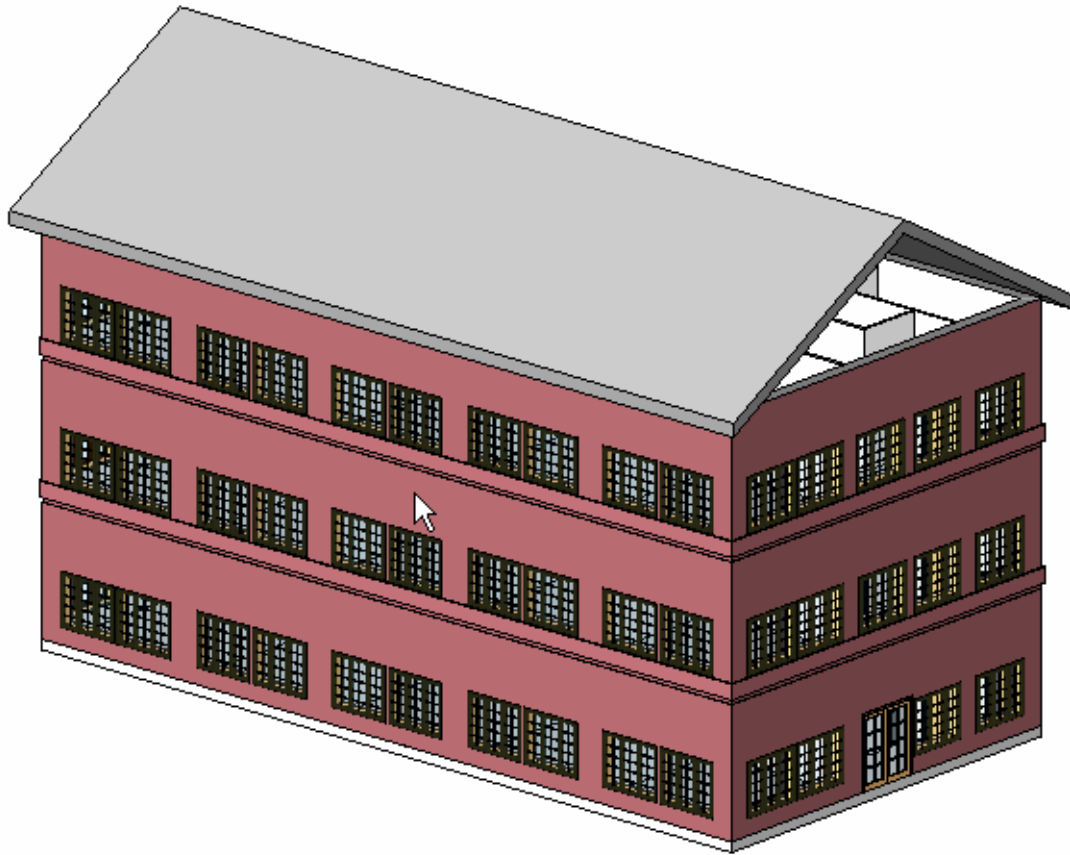
Note: When you select a slope-defining line, the slope value displays in blue. You can click the value to edit it.

9. Select the north exterior wall and the south exterior wall.



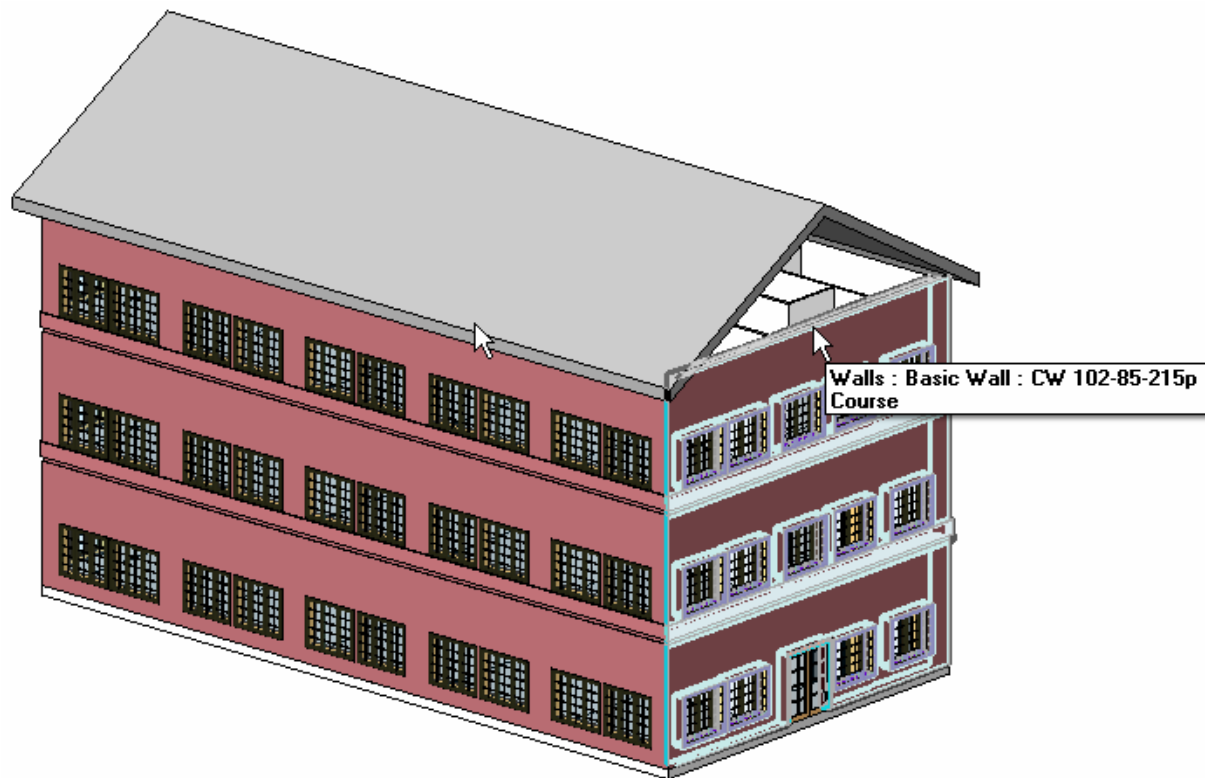
10. On the Design Bar, click Roof Properties.
11. Select Warm Roof - Timber for Type, and click OK.
12. On the Design Bar, click Finish Roof.
13. On the View  toolbar, click.
14. On the View  toolbar, click.

15. Spin and zoom the building model until it resembles the following illustration.

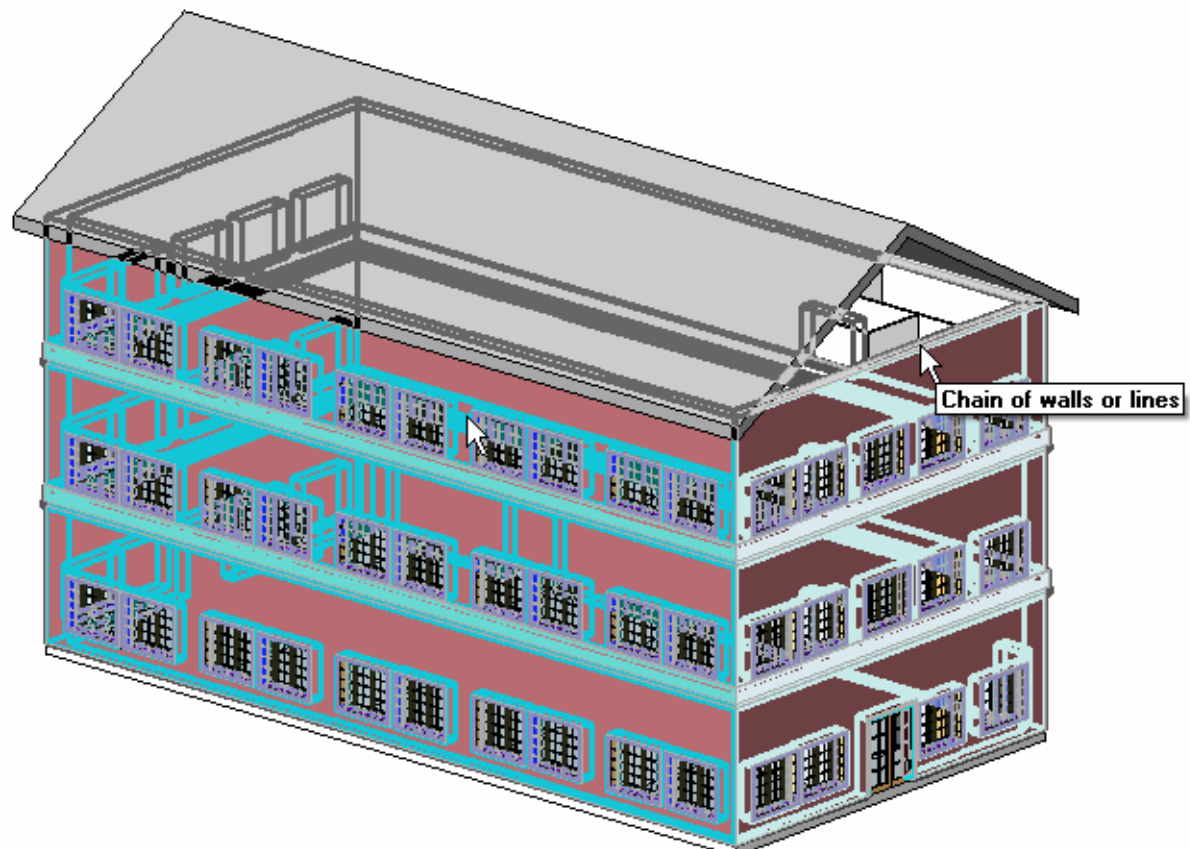


Notice the exterior walls are not connected to the roof.

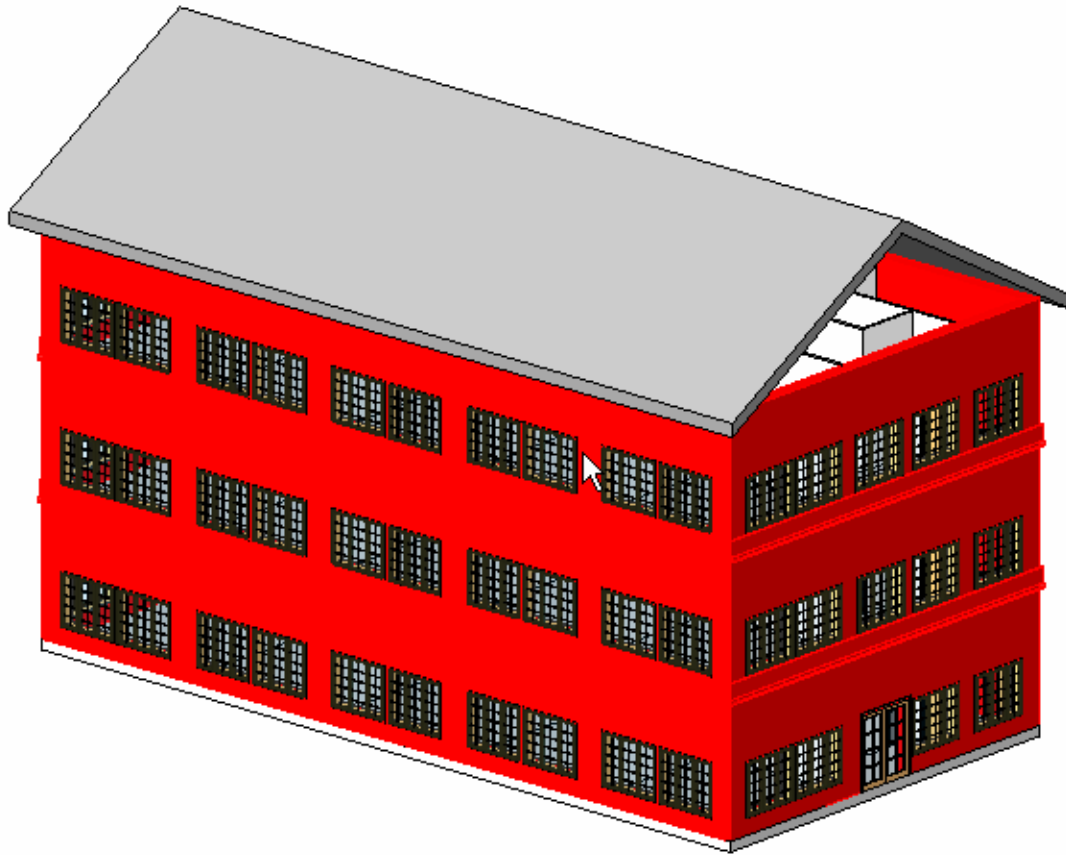
16. Move the cursor over the gable end wall.



17. Press TAB to highlight the chain of exterior walls.



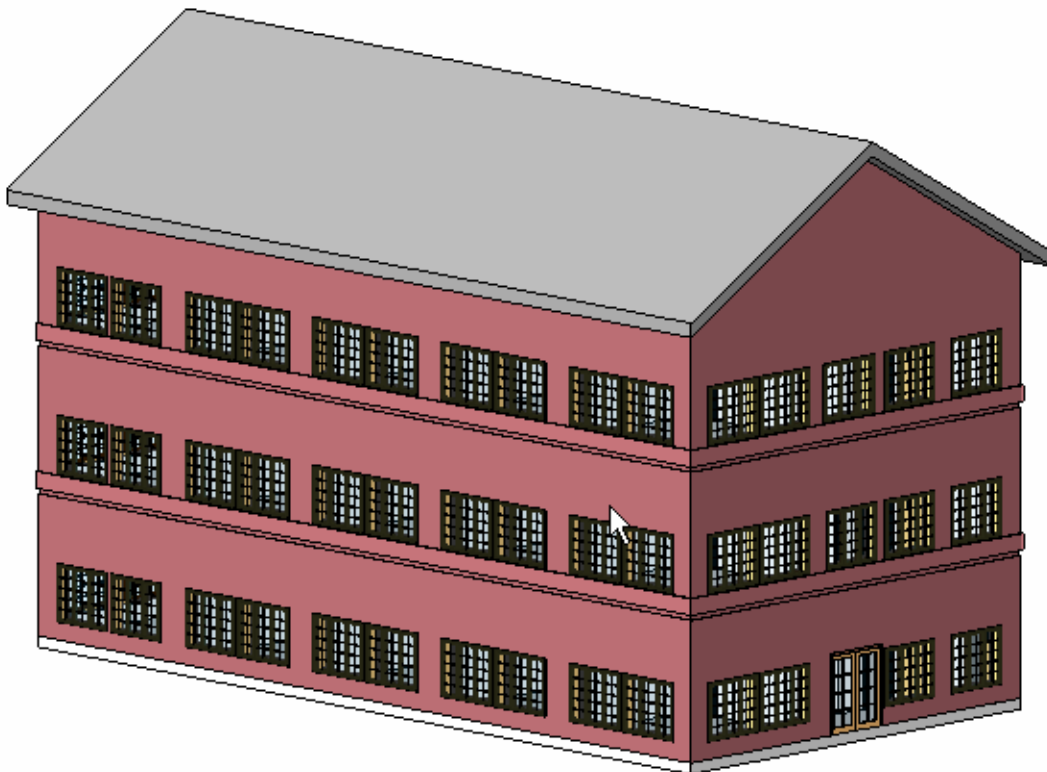
18. Click to select the entire chain of exterior walls.



19. On the Options Bar, select Attach for Top/Bottom.
20. On the Options Bar, select Top for Attach Wall.

21. Select the roof.

The exterior walls are now attached to the roof.



22. On the Design bar, click Modify.

Add a ceiling to Level 3

23. In the Project Browser, under Views (all), under Ceiling Plans, double-click Level 3.

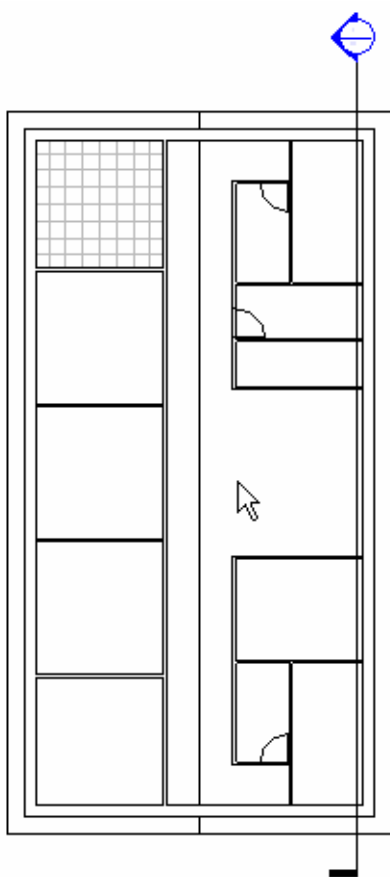
Tip: Although you can add a ceiling in a floor plan view, the ceiling is normally outside the view range and is not visible after you add it.

24. On the Modelling tab of the Design Bar, click Ceiling.

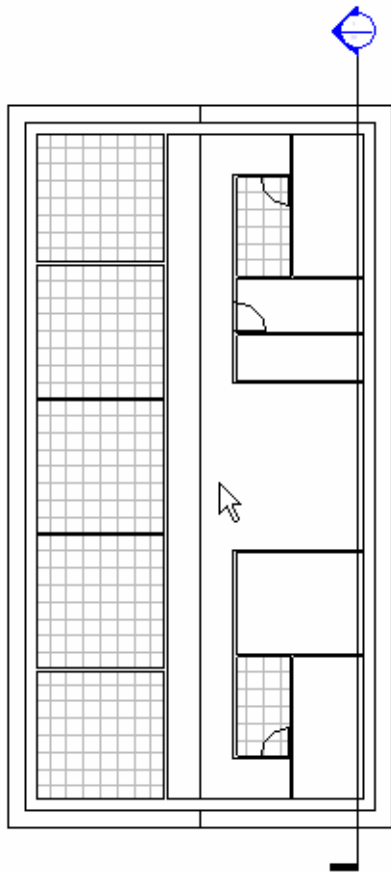
There are two methods to create a ceiling:

- Using Auto Ceiling, you select a ceiling type from the Type Selector, and then click inside highlighted rooms to add the ceiling.
- Using the sketch method, you can sketch a ceiling using the same methods learned when you added the floors and roof.

25. In the Type Selector, select Compound Ceiling: 600 x 600 mm grid.

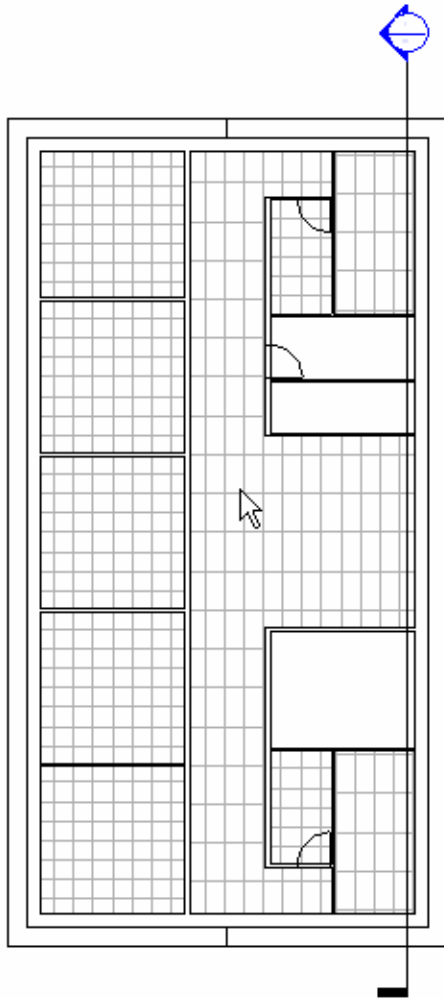


27. Add a ceiling of the same type in the remaining rooms on the left side of the corridor and in both bathrooms, as shown.



28. In the Type Selector, select Compound Ceiling: 600 x 1200 mm grid.

29. Click inside the main corridor and each stairwell to add a ceiling in each space.



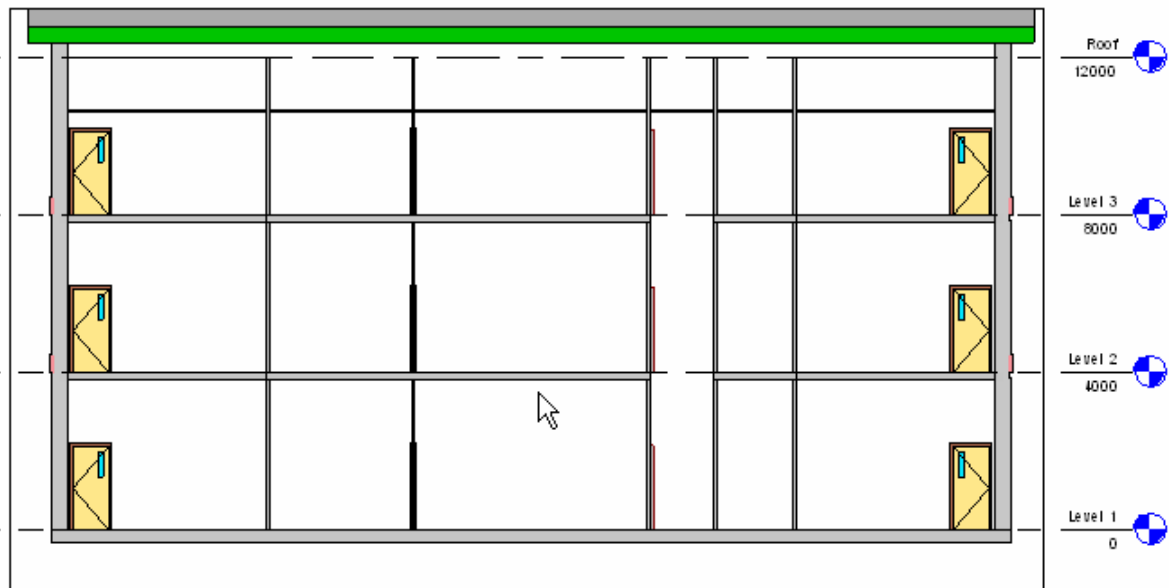
30. In the Type Selector, select Compound Ceiling: Plain.

31. Add a ceiling to the three remaining rooms on the right side of the corridor.

32. On the Design Bar, click Modify.

33. In the drawing area, double-click the section level head.

34. On the View menu, click Shading with Edges.



35. Right-click the ceiling over the elevator shaft on Level 3, and click Properties.
36. Enter 3900 mm for Height Offset From Level, and click OK.



37. On the File menu, click Save.

The next exercise requires this building model in its current state.

In this exercise, you learned how to create a roof and a ceiling. In the next exercise, you add the stairs to each stairwell.