

Test Case 11 – Dormer on the roof

Test Description: This case is developed to test a pitched roof, which has a dormer, can be recognized correctly in the exported gbXML model. If the roof is successfully exported with the correct surface type, then the test is passed, else, failed.

Spaces / Rooms:

There is one space in this test model. It is named as “level_1_space_1”.

Special Consideration:

1. The model is 10' x 10' x 21' (including floor and roof thickness, using center line)
2. The model has two stories and three spaces.
3. All the walls face to an orientation shall be named as: “[orientation]_wall_[custom index]”
4. All the other surfaces shall be named as their function, such as “interior_wall_[custom index]”
5. The custom index is an index to differentiate the same type surfaces. The tester can decide how to label the custom index.

Description of Test Model:

[Figure 1](#) shows a 3-dimensional isometric view of this test model.

[Figure 2](#) shows a typical floor plan to indicate dimensions and directions of the space, with wall thickness, which are important for the gbXML space and surface definitions.

[Figure 3](#) shows the elevation view to indicate positions and dimensions of the slab floor, roof or ceiling elements.

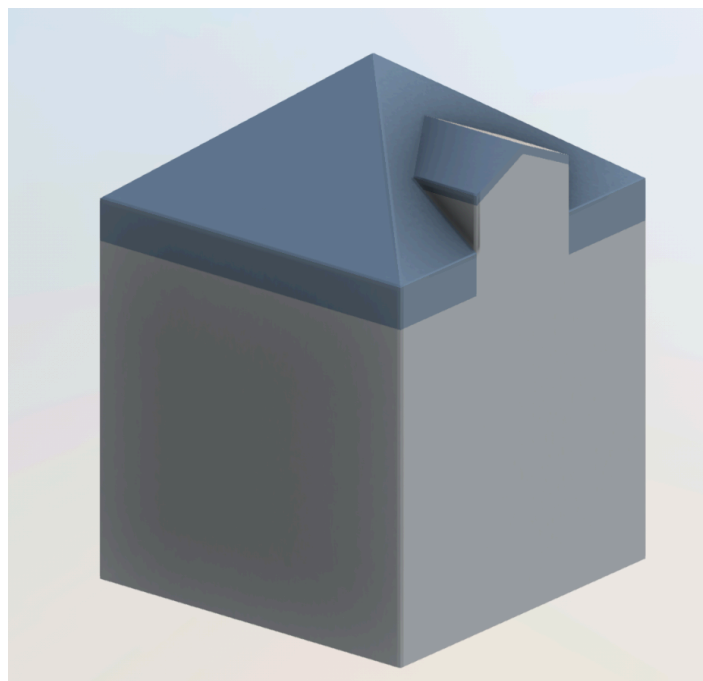


Figure 1. Isometric View

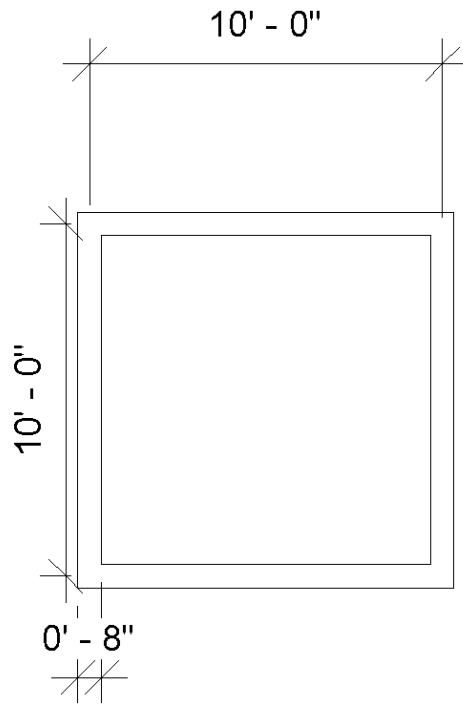


Figure 2. Floor Plan

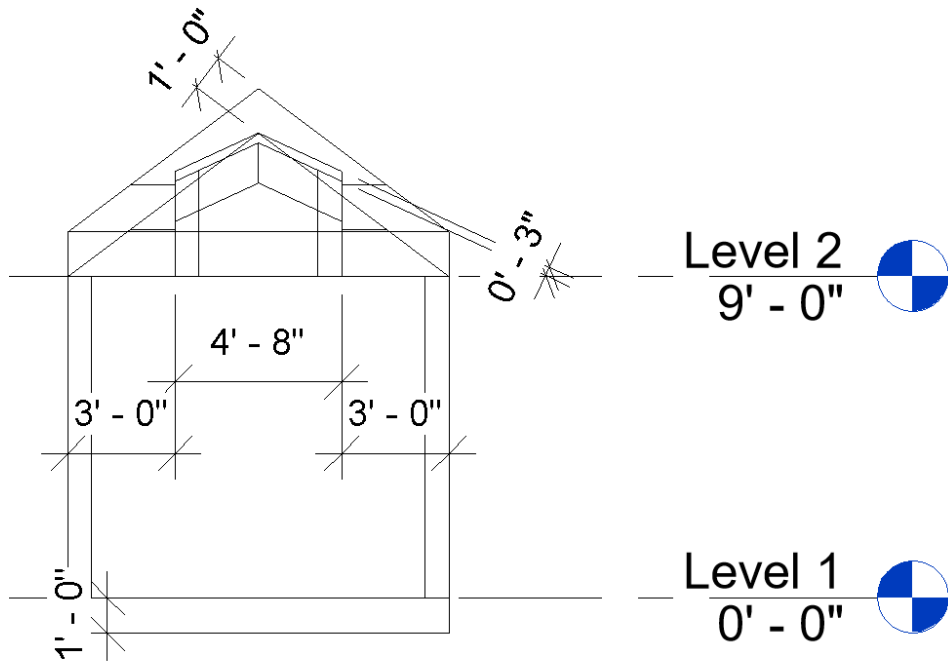


Figure 3. Elevation

Expected Outcome:

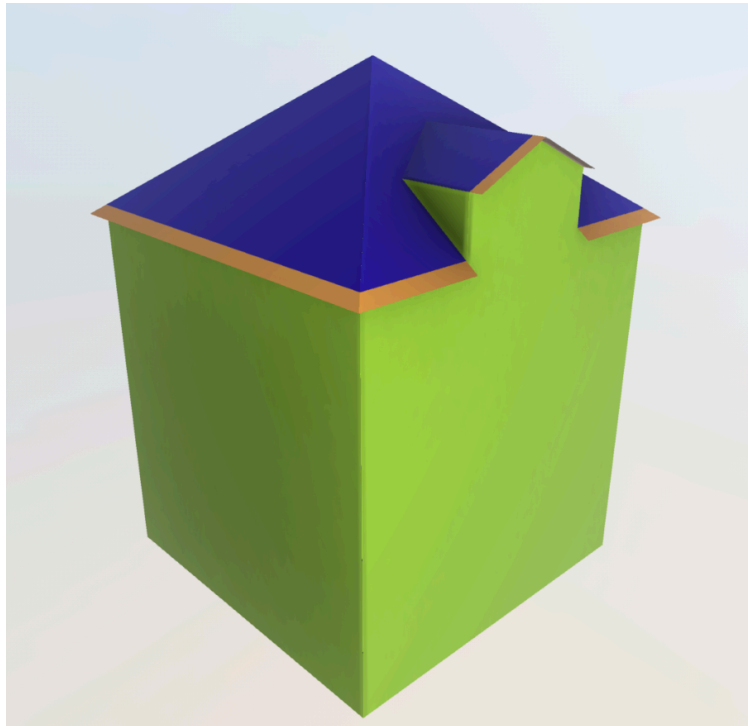


Figure 4. Expected output sample

Common Issues and Test Results:

One of the common issues in this test is that the dormer disappeared (Figure 5) or the surfaces of the dormer turn into shades (Figure 6)

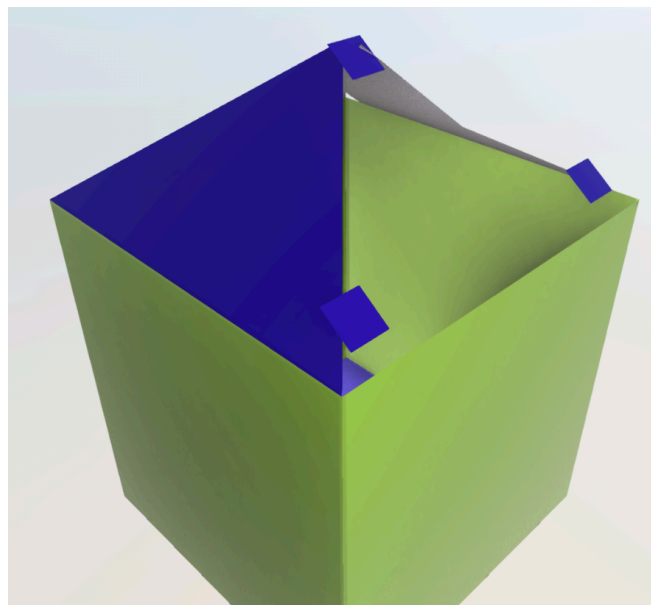


Figure 5. Dormer disappeared

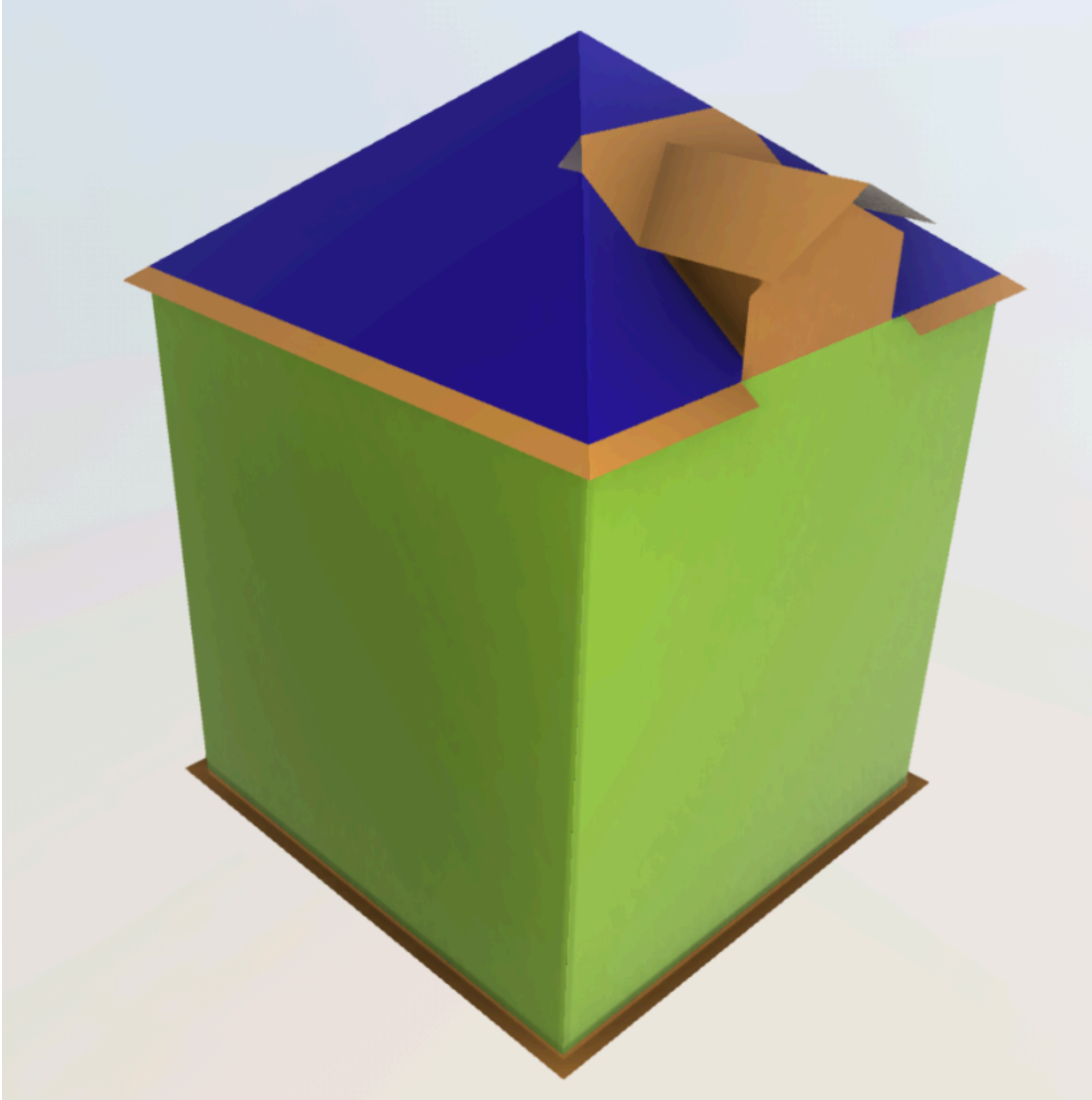


Figure 6. Shade surfaces