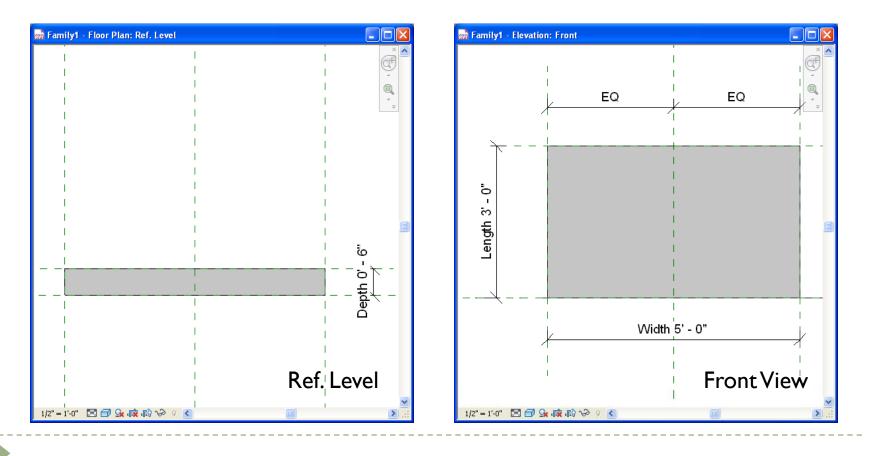
48-749 Parametric Modeling Curtain Wall System

Carnegie Mellon University School of Architecture

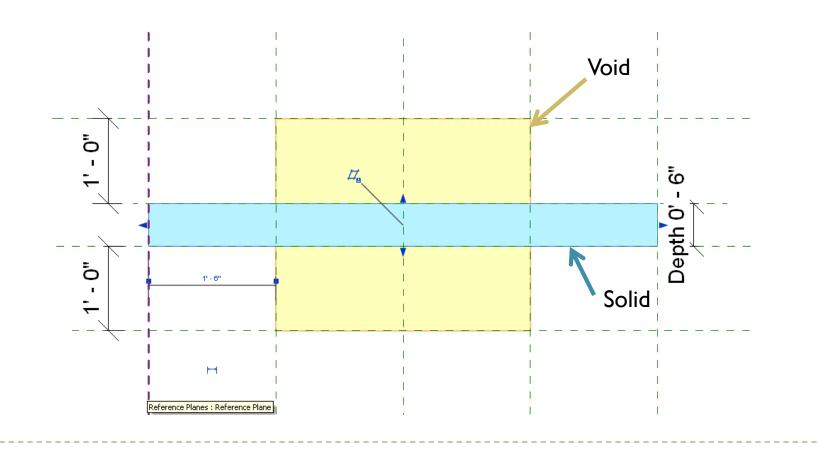
Step 1: Start with a Generic model template

 \rightarrow Initiate a rectangular extrusion solid

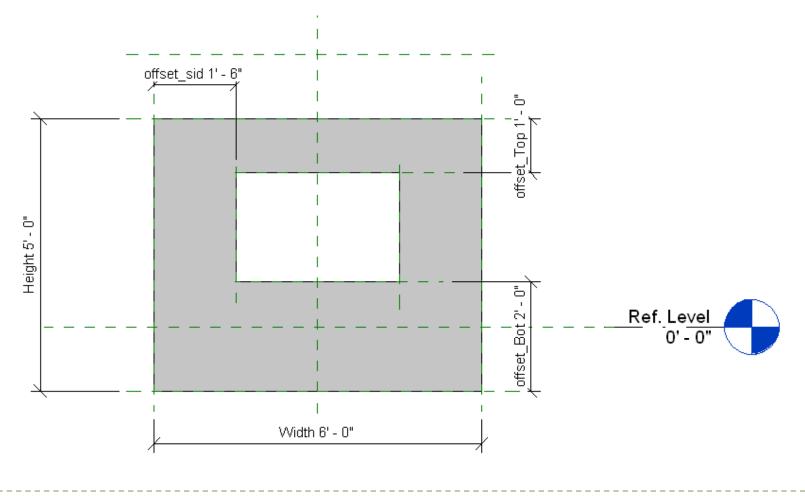
ightarrowSet up the reference planes and align the edges of the solid to the reference planes



Step 2: Create a void extrusion solid and make sure the void is always larger than the solid.

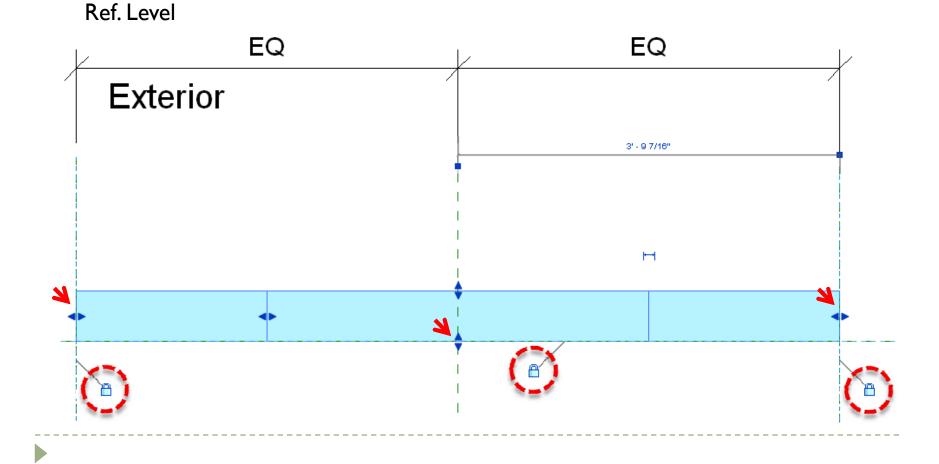


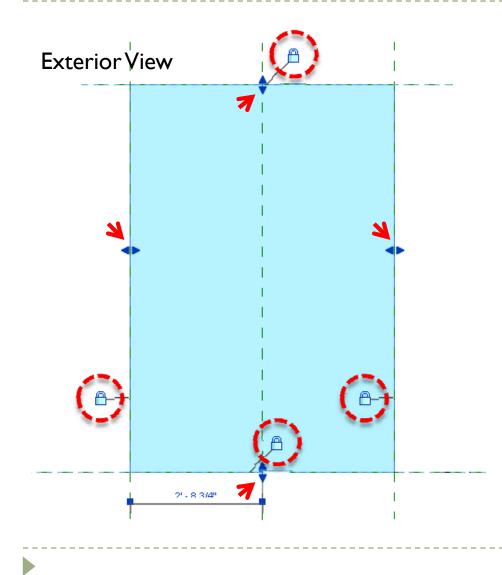
Result Curtain Panel.



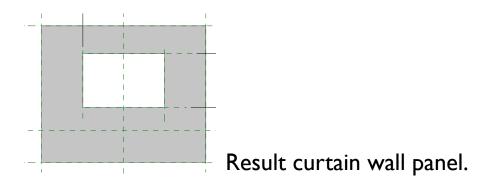
Step 3: Load the generic model into the Curtain Wall Panel template .

 \rightarrow use the blue handles to constrain input geometry to the reference plan.



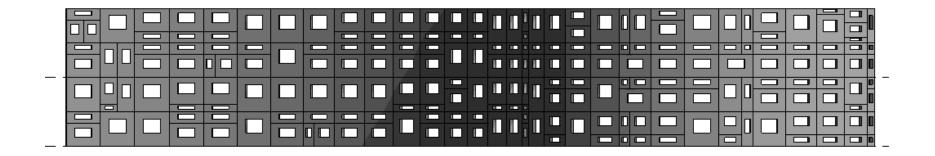


Same for the Exterior view: properly constrain the edges to the left, right, top and bottom reference planes.



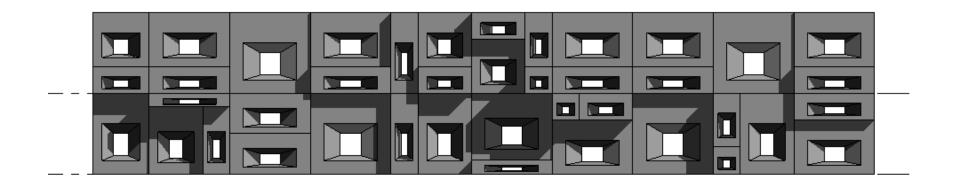
D

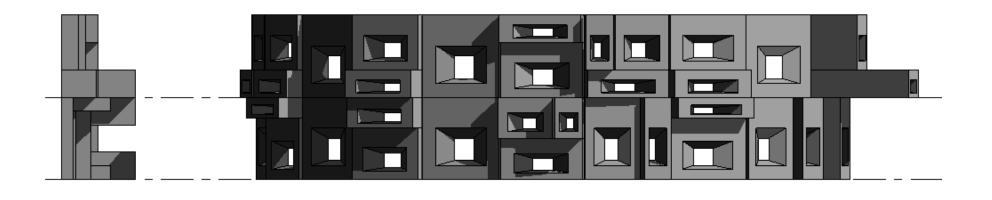
Step 4: Load the curtain wall panel into the project. Below is the image generated with the panel specified above.



Curtain Panel: In-class exercise

Curtain Wall Panel with a **fixed** volume and a tapered opening

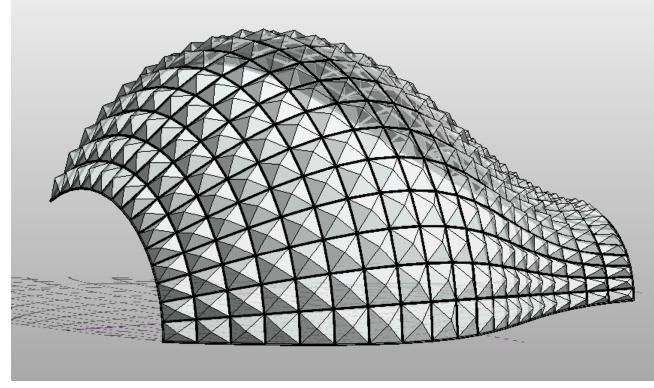


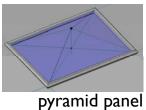


Pattern-Based Curtain Wall Panels

When?

\rightarrow used when modeling conceptual mass objects

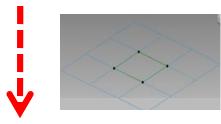




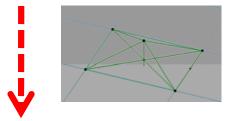
A revolved surface patterned with rectangle-based pyramid panels.

Pattern-Based Curtain Wall Panels

Step 1: Start with a Curtain Panel Pattern Based template



Step 2: Initiate reference lines with the pattern selected.



Step 3: Design your panel.

