



## Furniture and Ceiling System

Week Five: Class 10

### Lecture: Plan:

- Curtain Wall
- Elevations assignment
- Case study

### Lab (Computer Topics):

- Curtain wall – wall type
- Curtain panels
- Grid lines
- Mullions

- Adopting curtain walls

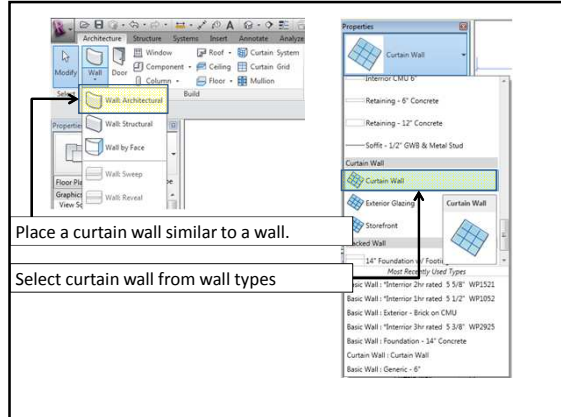
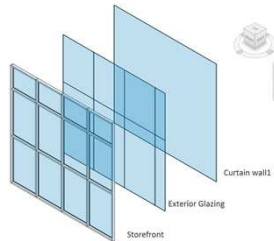
### Note

- research projects due October 30th



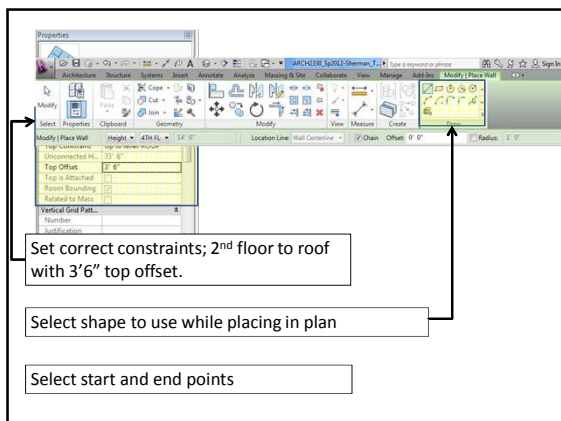
ARCH 2430

- Curtain walls in Revit are a type of wall assembly within the wall family.
- This family consists of mullions, Divisions and curtain panels.
- The elements have some similar constraints to other wall types such as base constraint, base offset, top constraint, top offset; As well as others such rotation angle for each grid pattern (for non orthogonal pattern).
- By default there are 3 curtain wall types:
  - Curtain wall 1
    - No divisions
    - No mullions
    - No default panels
  - Exterior Glazing
    - Rule based divisions
    - No mullions
    - default panels
  - Storefront
    - Rule based divisions
    - mullions
    - default panels



Place a curtain wall similar to a wall.

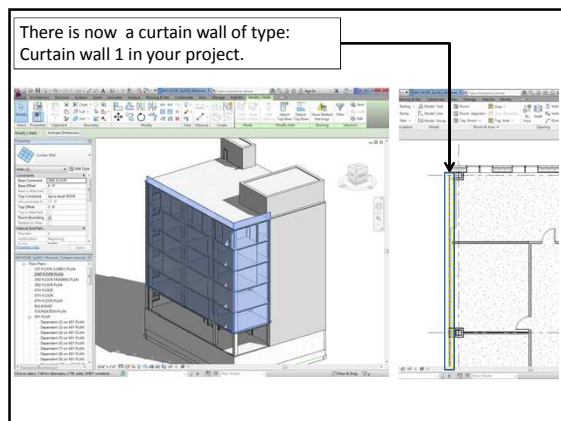
Select curtain wall from wall types



Set correct constraints; 2<sup>nd</sup> floor to roof with 3'6" top offset.

Select shape to use while placing in plan

Select start and end points



There is now a curtain wall of type: Curtain wall 1 in your project.

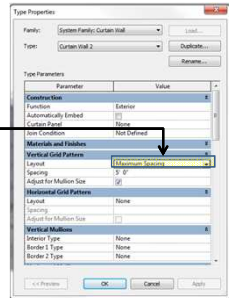
## GRID LINES

Separate a single panel to multiple panels. These can be added using a rule (such as every 5' feet) or manually placed as needed.

First, lets duplicate a curtain wall type.

We can first try to set a rule to govern spacing in between divisions, lets use maximum spacing

Now every panel will be equal at a size no larger than 5'



## GRID LINES

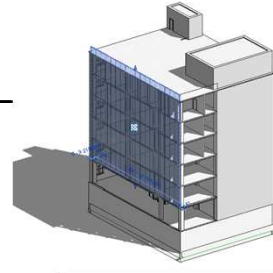
Divisions in a curtain wall separate a single panel to multiple panels. These can be added using a rule (such as every 5' feet) or manually placed as needed.

Edit type and duplicate the curtain wall type.

We can first try to set a rule to govern spacing in between divisions, lets use maximum spacing

Now every panel will be equal at a size no larger than 5',

This can be done for horizontal grid lines also.

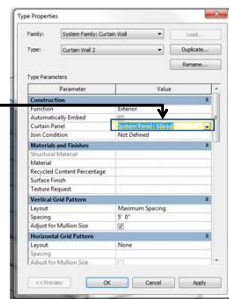


## CURTAIN PANELS

Curtain panels are the elements which are placed into the divided curtain wall

Panels can be single pane system panels, wall types or other curtain walls

change the default panel to glazed

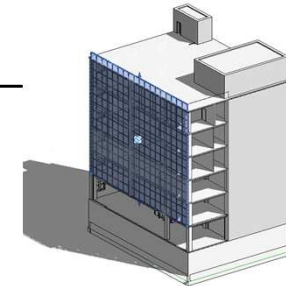


## MULLIONS

Mullions are part of the support systems for the panels, not usually necessary with solid panel systems.

Mullion are determined by pre-selected profile.

change the default mullion to rectangular

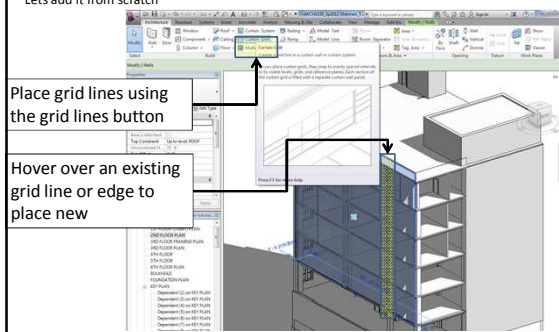


## MANUAL GRID PLACEMENT

You can add mullion and grid lines from scratch or to a rule based curtain wall. Lets add it from scratch

Place grid lines using the grid lines button

Hover over an existing grid line or edge to place new



## MANUAL MULLION PLACEMENT

You can add mullion and grid lines from scratch or to a rule based curtain wall. Lets add it from scratch

Place mullion using mullion button

Select type and Hover over an existing grid line or edge to place new

