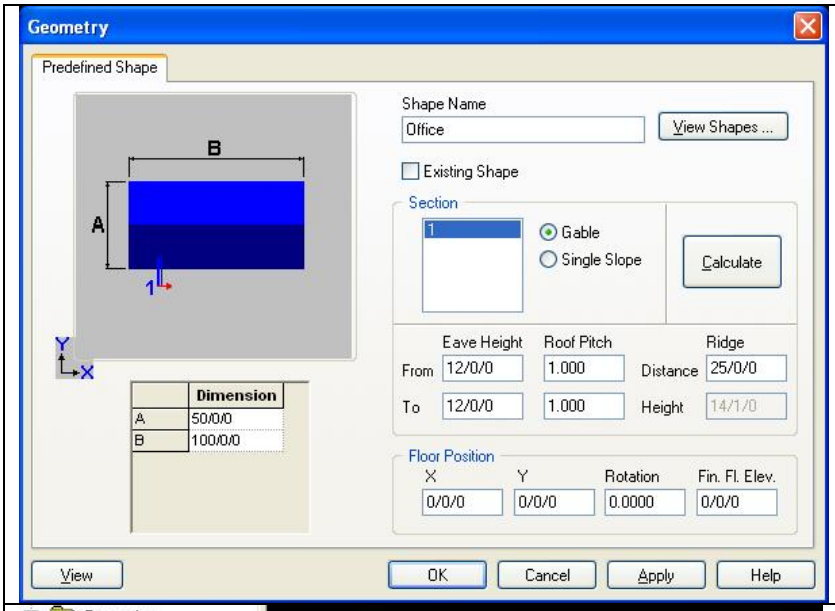
The Focus of this Lesson is:

- *Inputting Partitions (Lengthwise)*

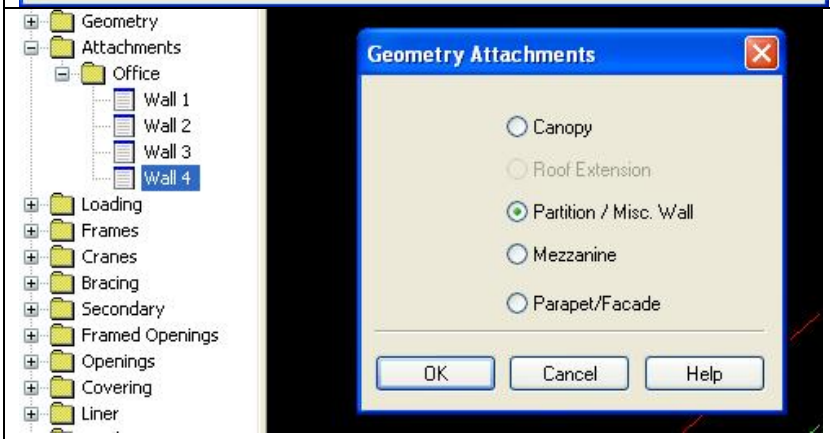
Lesson Comments:

This lesson will discuss the procedure for inputting Partitions, running the length of a Building. The basic components of a partition wall are: *Primary Framing (Endposts), Secondary (Girts), Sheeting, and Trim*. This Lesson will have you input a Continuous Beam frame with an Interior Column acting as support for the girts. You can use other Frame types as well, Rigid Frame with Endposts, Open Web Frames, etc.



1. Input Building Shape:

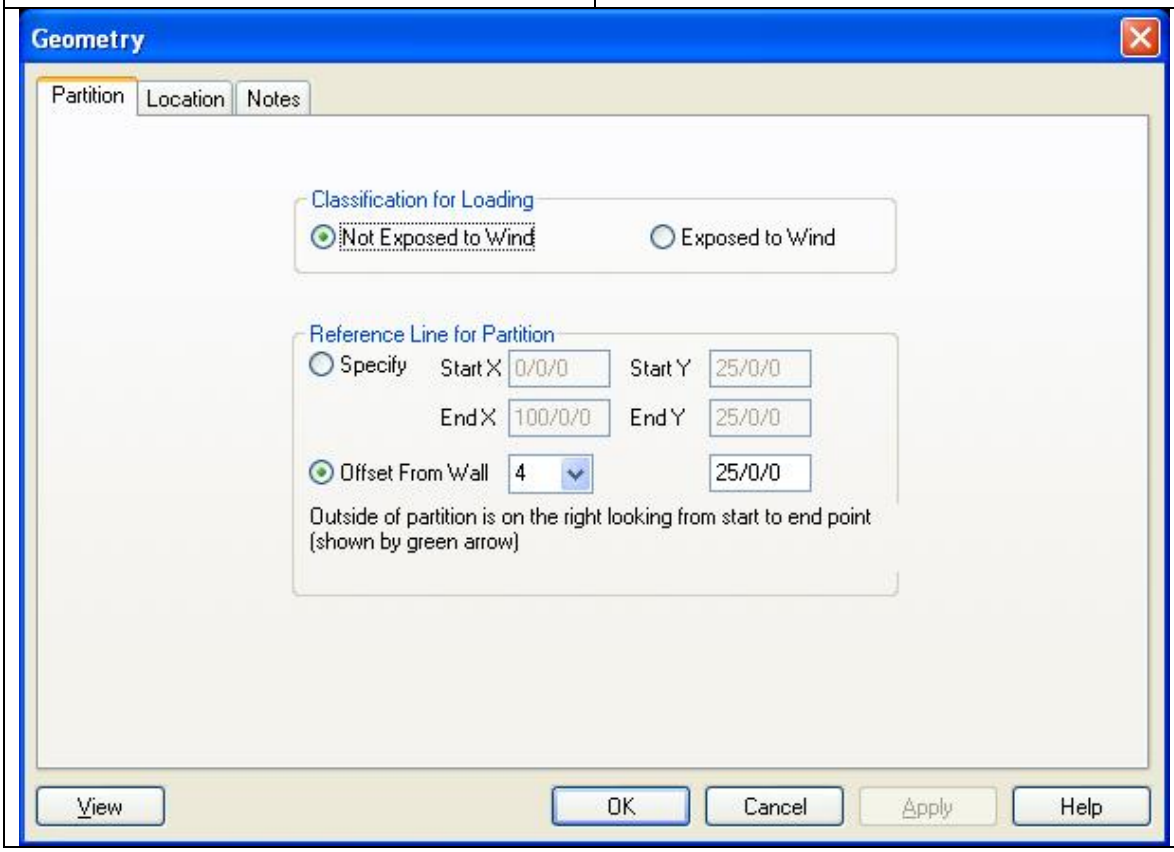
Input a Building 50 x 100 x 12, 1:12 roof pitch. Note that these are the default dimensions for the rectangular shape.

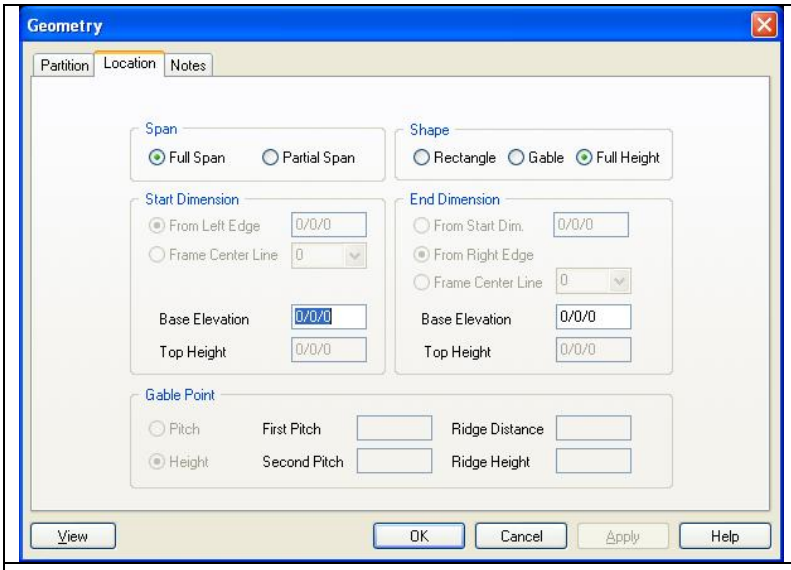


2. Input Partition Wall:

- From the ***Tree*** Select; ***Attachments / Your Shape /double-click Wall 4*** (wall partition will be dimensioned from).
- At the ***Geometry Attachments***, click on ***Partition / Misc. Wall***.
- Click on ***OK***.

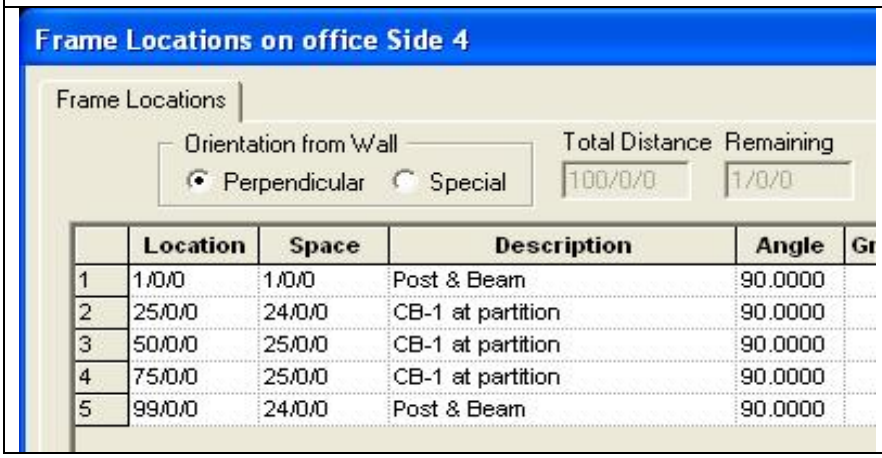
	• ***Classification for Loading*** field will be ***Not Exposed to Wind*** as this is an interior wall. If you were inputting a Partition for an open end bay condition, you would select *Exposed to Wind*. • At the ***Reference Line for Partition field***, the ***Offset From Wall*** will be ***4*** (your selected wall). Note that this is shown in the Graphics Pane by a Green Arrow. • Input a dimension of ***25/0/0*** to locate the partition at the ridge. Note that you are dimensioning to the outside face of the girt (backside of Panel). You will adjust the Offset later at the Secondary Folders in Step 5. • Click on the ***Locations*** tab.



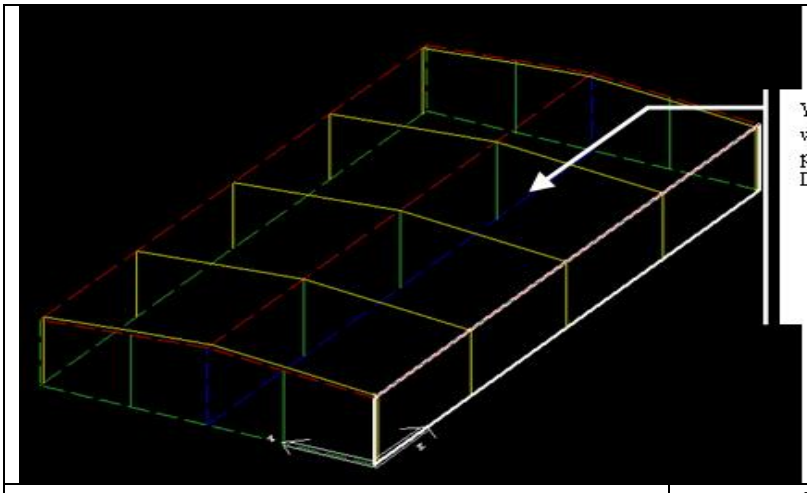


- At the ***Locations*** tab, make sure ***Full Height*** is click on.
- Note that you have many options for defining your partition at this tab, Partial Span, Partial Height, as well as a Gable option.
- Click on ***OK*** to close the window and accept your input.

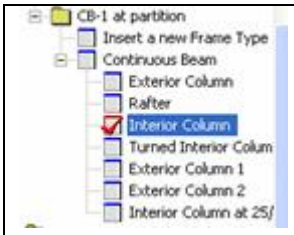
3. Locate Primary Framing: Locate Frames as shown below for Outset girts and 25'-0" bays. Since the Partition Wall is at the ridge, you will need to have a Frame type added to your Frames / Schedule such as shown below to allow for the partition secondary attachment. In this example I am using a CB-1 Frame with the Interior Column at 25'-0". Note that at present the Interior Column and the Partition are at the same location. We will adjust the offset at the Secondary Level.



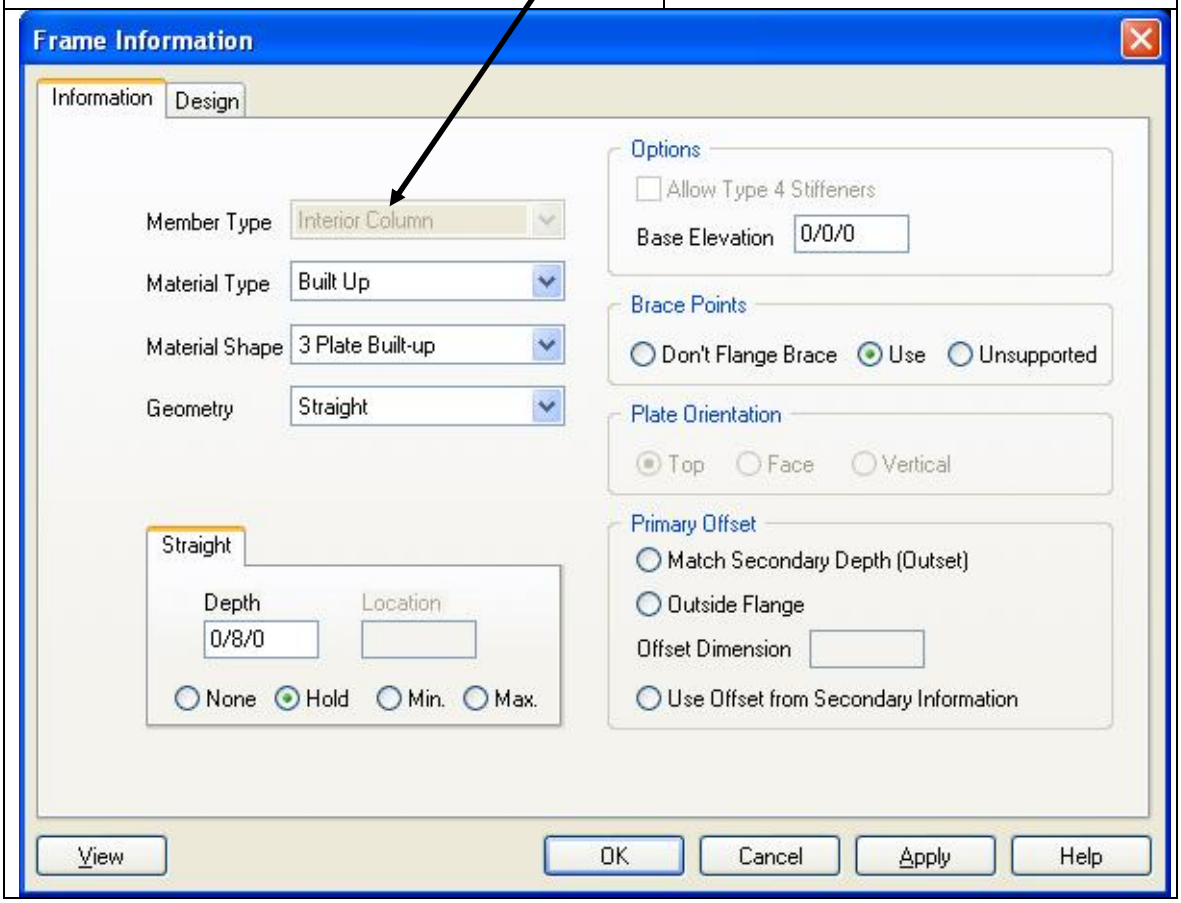
	Location	Space	Description	Angle	Gr
1	1/0/0	1/0/0	Post & Beam	90.0000	
2	25/0/0	24/0/0	CB-1 at partition	90.0000	
3	50/0/0	25/0/0	CB-1 at partition	90.0000	
4	75/0/0	25/0/0	CB-1 at partition	90.0000	
5	99/0/0	24/0/0	Post & Beam	90.0000	

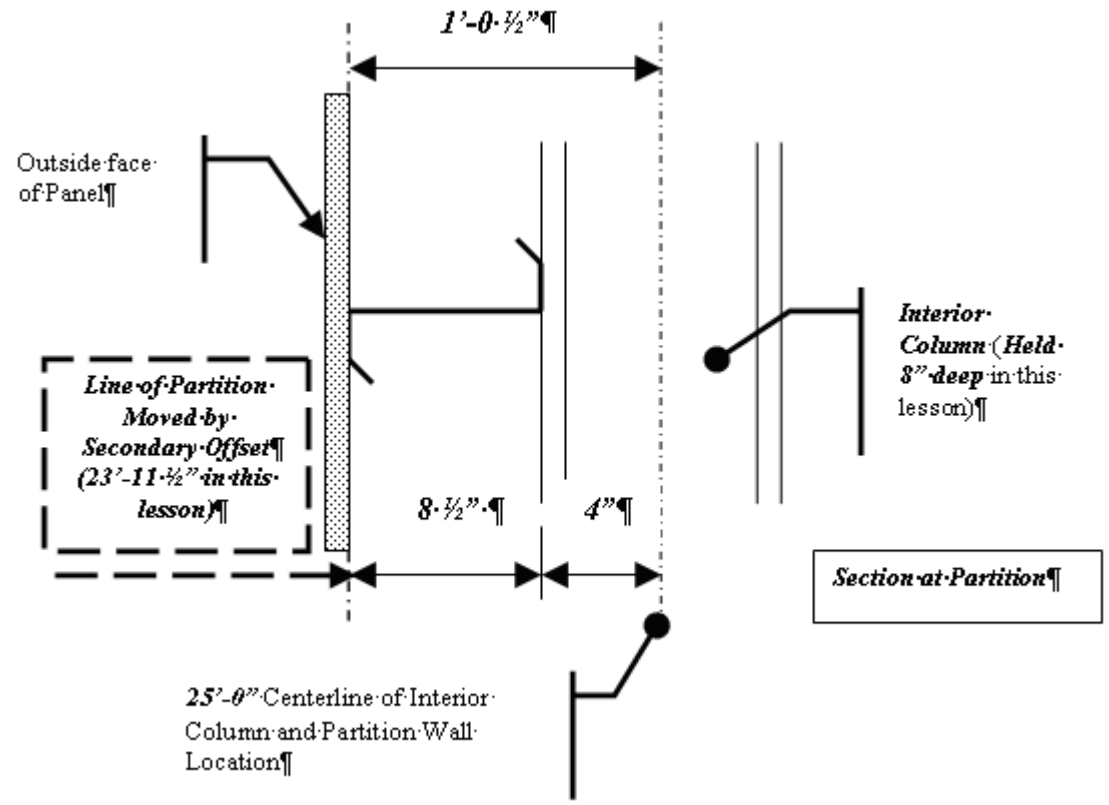


4. Restricting Interior Column Depth: Hold the Interior Column Depth to be Held 8" straight. This will allow the interior column to be designed at the Ridge and for the partition wall to be offset as you will do in step 5. Note that this is being done for this lesson's requirements. Your actual dimensions may vary various projects.

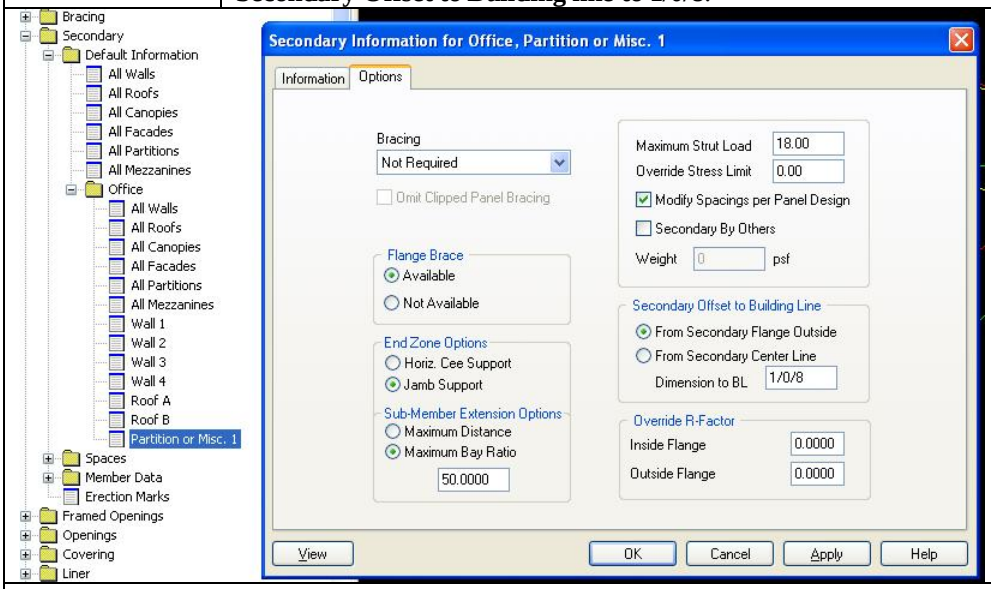


- From the Tree open the ***Frames / Schedule***
- Open the folder for the frame you located.
- *Double-click* the ***Interior Column*** to open the Frame Information window.
- Make sure the *Material Type*, *Shape*, and *Geometry* is ***Built Up***, ***3 Plate Built-up***, and ***Straight*** respectively.
- Hold a ***Depth*** of ***8***".
- Click ***OK*** to save information and close the window.





Change Secondary Offset to Building Line: You must go into **Secondary/Default Information/Shape name/Partition or Misc. 1** wall and change the **Options** for the **Secondary Offset to Building line to 1/0/8**.



Note that you may change the partition girt depth 7" as there will be no wind applied at this interior partition if desired. You will need to adjust the Secondary Offset (Step 5) to accommodate this.