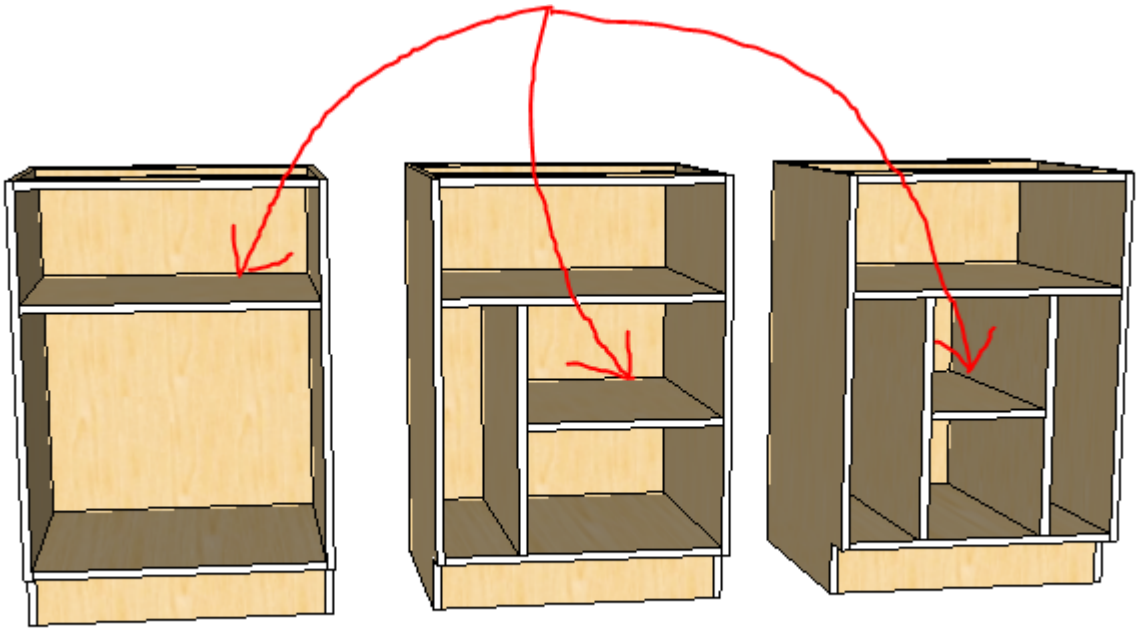
Shelf



Overview

The shelf is placed inside the cabinet. Its width is constrained by whatever is immediately to the left and right of it. Items that constrain it are:

- Cabinet Left End
    - Cabinet Right End
    - Partition

a Fixed Shelf will also constrains the height of:

- Partition
- Door
- Drawer

You can use the SketchUp Scale tool to re-size its width. After you re-size it, CabinetSense will again look for the left and right constraints and calculate its final width.

Faceframes

The shelf component has special behavior that is unique to the faceframe mid-rail.

- The shelf will sync itself to the mid-rail when you place or move a shelf component onto it. From then on, moving the mid-rail will also cause the shelf to move. Moving the shelf away from the mid-rail will break this relationship and return the shelf to a stand-alone component.
- When a shelf is synced, its placement properties (see Unique Properties below) will also behave differently. The shelf is placed in relation to the mid-rail. Selecting "from Bottom" will place the shelf flush to the bottom

of the mid-rail, "from Top" will flush it to the top, and "% from bottom" will center it on the mid-rail.

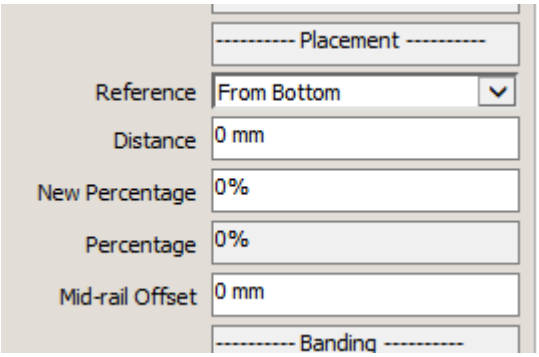
- The mid-rail offset will move the shelf up by the amount specified when the shelf is referenced to the top of the mid-rail. It will move the shelf down by the specified amount when it is referenced to the bottom of the mid-rail
- None of the other placement properties have any affect while the shelf is synced to the mid-rail.

CNC

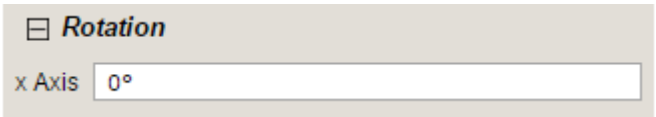
A fixed shelf will follow the selections made in the dado and drilling properties, while an adjustable shelf will follow the line-boring rules set out in the machining database.

Unique Properties

- Placement

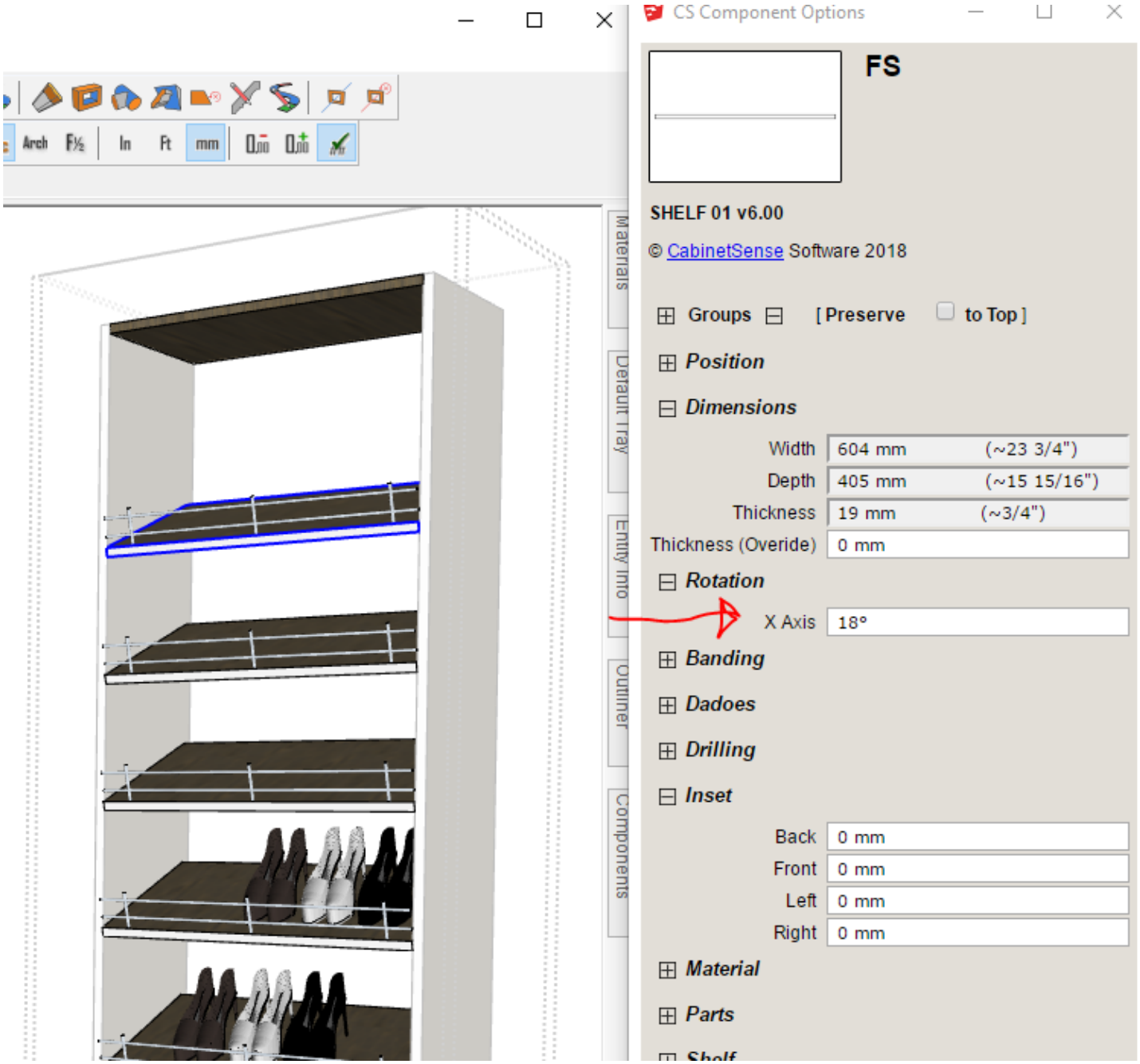


- Reference: Choose between a) from bottom of cabinet, b) from top of cabinet, or c) % from bottom of cabinet. As you re-size the cabinet, the shelf will be re-positioned based on this setting.
- Distance: The distance to move from the reference point (defined above)
- New Percentage: Enter a percentage value in this property. CabinetSense will calculate the distance and update the distance property for you.
- Percentage: Display field the shows the % that the shelf is in relation to the reference field
- Mid-rail Offset: This attribute is only used in faceframe cabinets when a shelf has been synced to a mid-rail.
- ***important***: The placement properties behave differently when a shelf is synced to a mid-rail (see faceframe section above for more information).
- Rotation

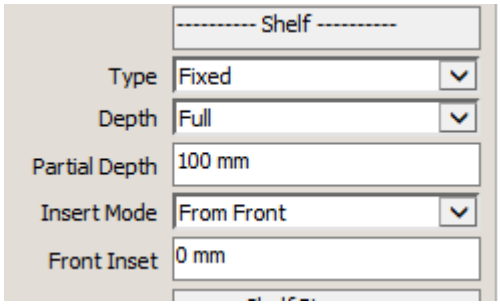


  - x-Axis: Allows you to rotate the shelf such that it could be sued for a shoe rack.

- **NOTE**: Machining (drilling, dado) do not follow the rotation of the shelf. Any machining must be either placed manually using the CabinetSense Cutters or by carefully thinking through how you can use existing CabinetSense machining to work with these shelves.



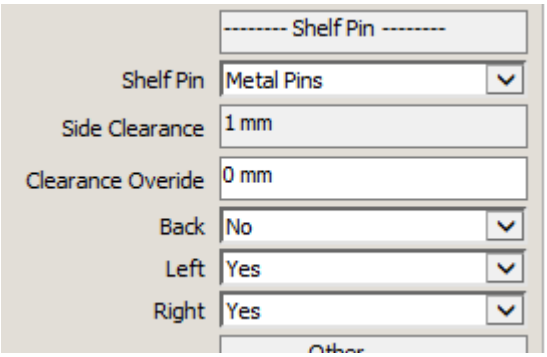
- Shelf



- Type: Fixed or Adjustable. Adjustable shelves respect the shelf pin settings (defined below).
- Depth: Full or Partial. If full the back of the shelf touches the front of the cabinets back

- Partial Depth: The depth of the shelf when its ***Depth*** property is ***Partial***.
- Insert Mode: When partial depth is used, you can the shelf reference from the back or front of the cabinet.
- Front Inset: The inset from the front of the cabinet.

- Shelf Pin



- Shelf Pin: Choose between Plastic Clips, Metal Pins and Zero Clearance. The side clearances that are used are 3mm, 1mm, and 0.5mm respectfully.
- Side Clearance: The amount of space that will be left between the shelf and the cabinet end. The clearance used depends on the shelf pin selected.
- Clearance Overide: You can use your own clearance by entering a non-zero value in this field.
- Back: Yes or No. Shelf pin clearance required on the back.
- Left: Yes or No. Shelf pin clearance required for the left end.
- Right: Yes or No. Shelf pin clearance required for the right end.