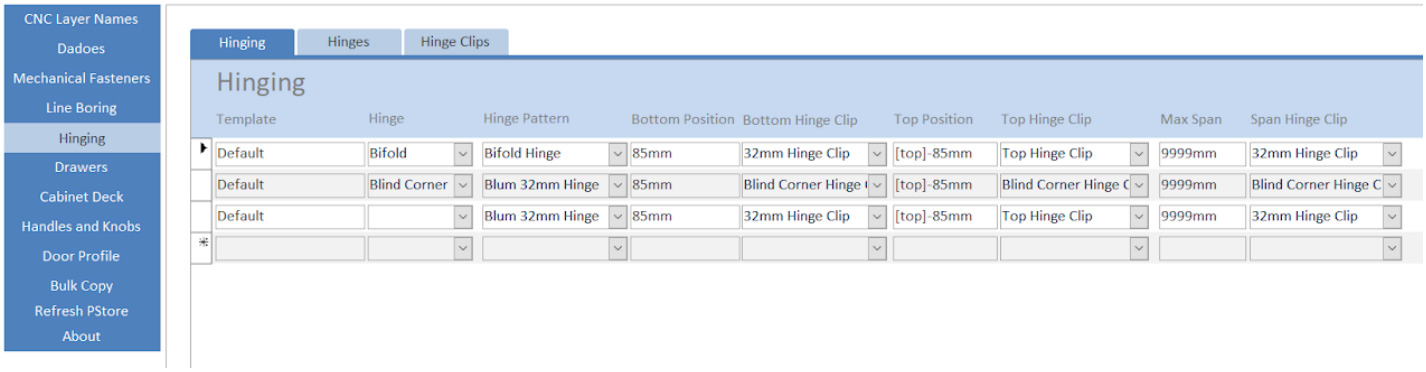
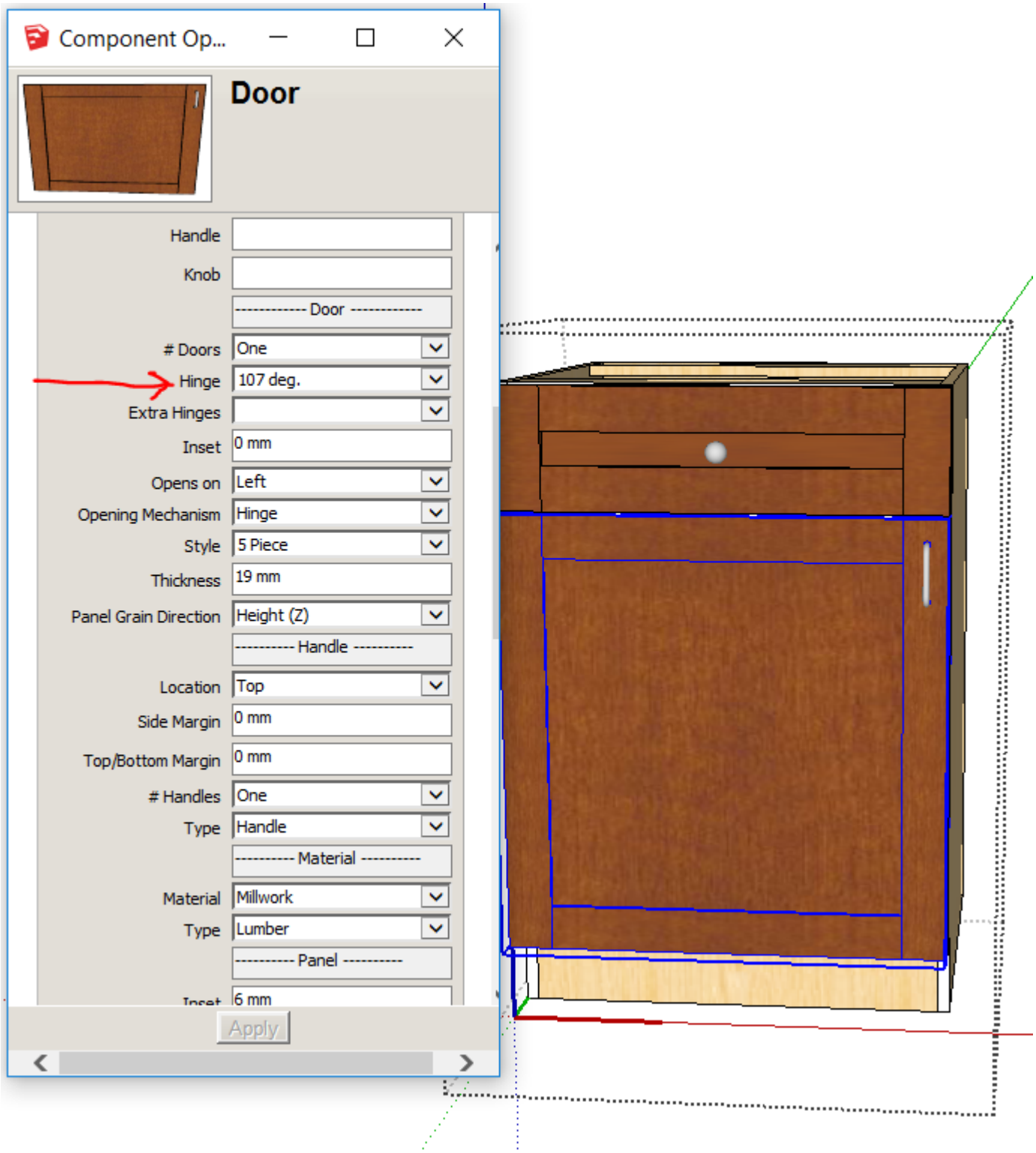
Hinging

Hinging Specification



- Template
- Hinge: The hinge that you are defining the pattern for. This hinge name is the same as the hinge in the Door Component.



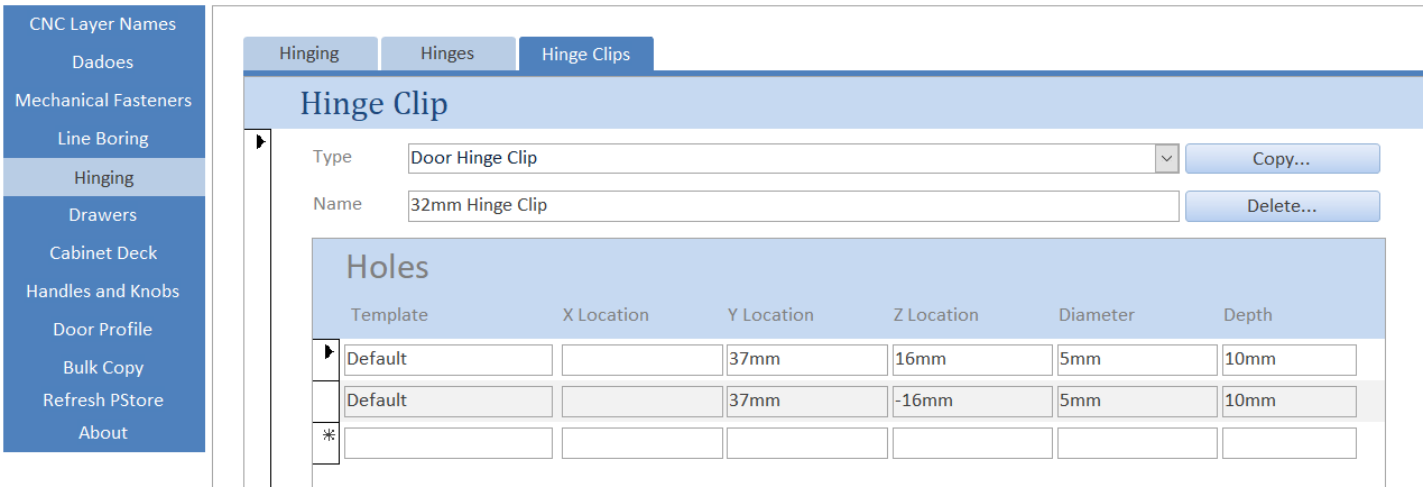
- CabinetSense will attempt to find machining instructions specific to the hinge that you are using in your component. Failing that, it will use a general definition for a hinge... which is a hinging record that does not have a hinge name.

- Hinge Pattern: The Hinge pattern to be used to drill the holes to accommodate your door hinge. This reference is defined in the Hole Locations sections of the machining Database. If left empty, no door hinge will be machined.

- Bottom Hinge: The center line of the hinge clip will be place at this position. The reference is always from the bottom of the door, unless you use the [top] keyword.

- ***NOTE***: Please see the Reserved Words section at the bottom of this page for more options on specifying hinging locations.

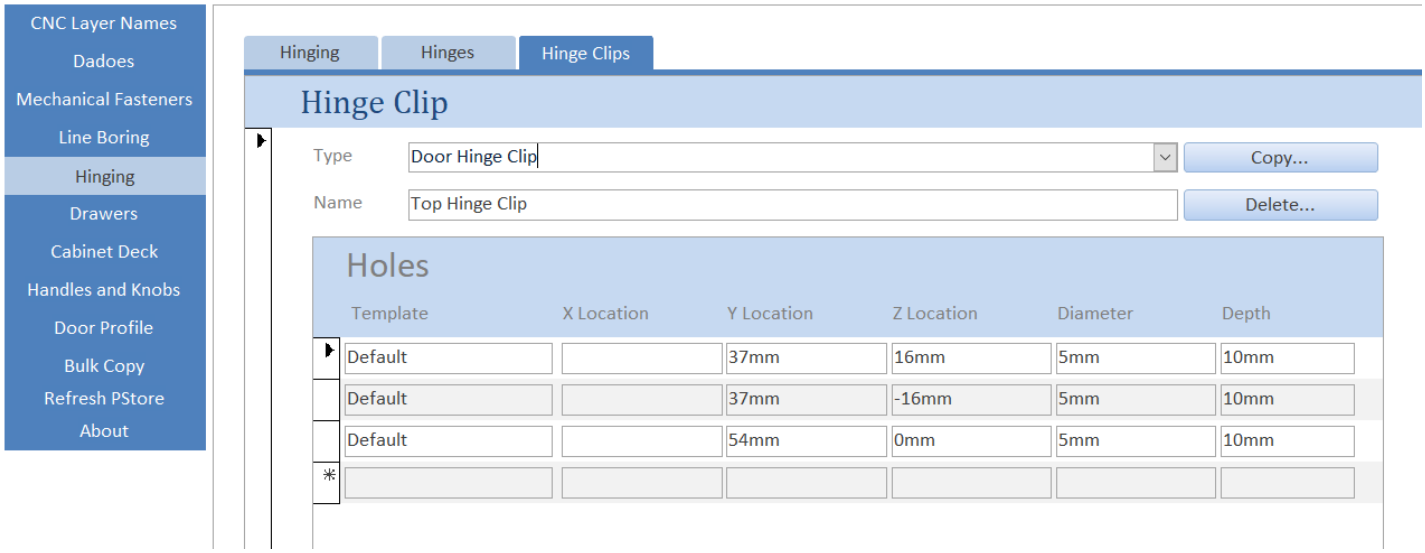
- Bottom Hinge Clip: This is a reference to a set of drill locations that will be used to drill all the required holes for this hinge clip. This reference is defined in the Parts Locations section of the machining Database.



- The definition, in this example, will drill two holes. The first holes is 37mm in, and 16mm up (from the hinge clip centerline). The second hold is 37mm in and 16mm down (from the hinge clip centerline). Both holes are 5mm in diameter and will be drilled 10mm deep.

- Top Hinge: Same as Bottom Hinge defined above

- Top Hinge Clip: Same as Bottom Hinge Clip defined above. In our example, the top hinge clip uses a different specification which is defined as:



- Notice that this definition drills a third hole at 54mm in and 0mm up (from the hinge clip centerline). The purpose of this 3rd hole is non-functional from the hinge clips perspective, but serves as an alert to the assembler. In the event that you have an unbalanced (32mm) cabinet, the assembler can immediately tell which is the left/right gable by knowing that the hinge clip with 3 holes is always the top of the end.

- Max Span: If you would like to automatically place intermediate hinge clips, you can specify the maximum span that is allowed before an additional hinge is drilled. The new hinge clip is placed equi-distant

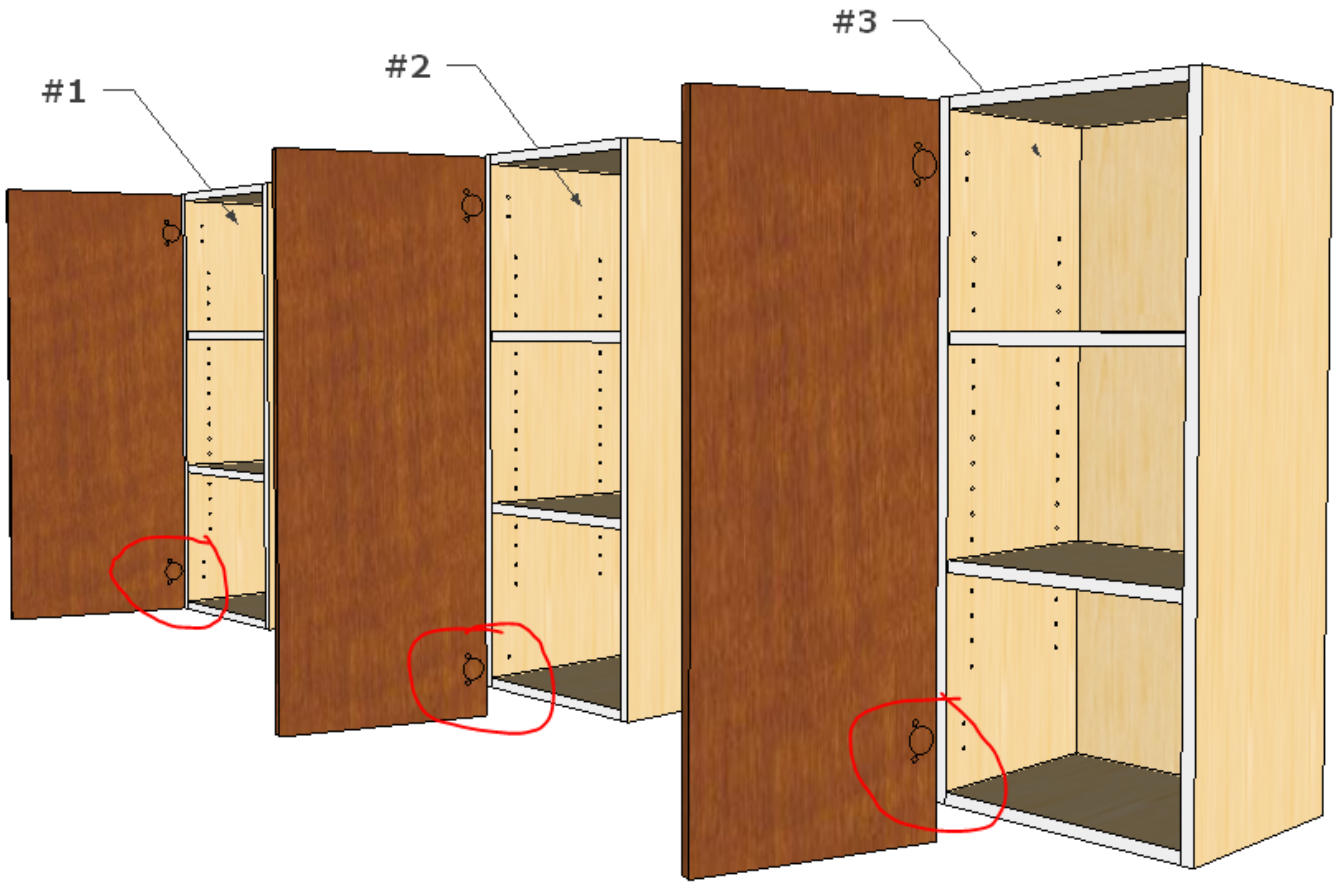
between neighboring hinge clips. The span distance is measure from center line to center line.

- Span Hinge Clip: Same as Bottom Hinge clip (defined above).

Reserved Words for Hinge Locations

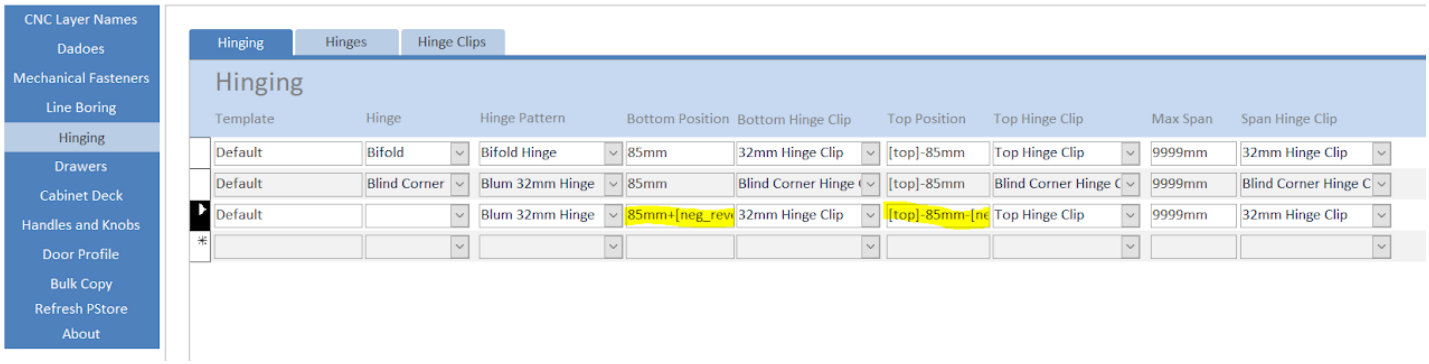
- [neg_reveal_bottom]: This reserved word will contain the absolute value of your bottom reveal ***IF*** that reveal is negative... otherwise its value is zero.
- [neg_reveal_top]: This reserved word will contain the absolute value of your top reveal ***IF*** that reveal is negative... otherwise its value is zero.

- It is now possible to have CabinetSense compensate its hinging locations when you use negative reveals to position a door beyond its normal confines.

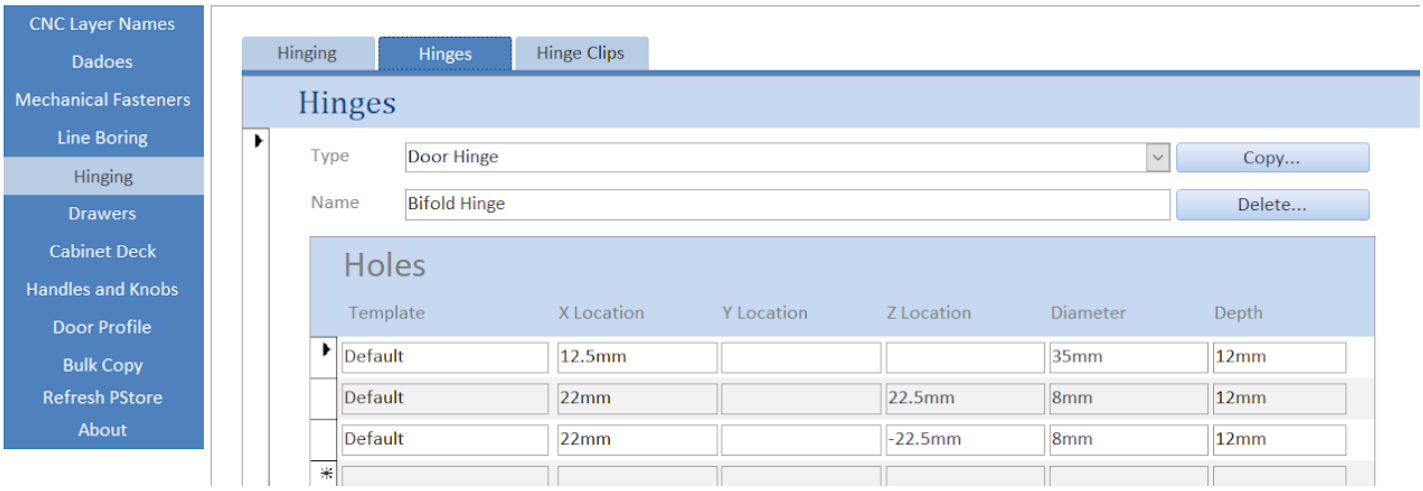


- In the example above:
- Cabinet #1 has a standard door where it's door is flush with the bottom of the cabinet. The hinging formula for the bottom hinge is 80mm up from the bottom of the door.
- Cabinet#2 uses a negative bottom reveal on its door so the door bottom is 50mm below the bottom of the cabinet. Using the same formula to place the hinging on the door results in a poor placement of the hinge.
- Cabinet#3 is the same as #2 with the exception that its bottom hinge formula is: 80mm+[neg_reveal_bottom].

- CabinetSense will use the bottom reveal value only when it is negative. The value used is always the absolute value. This results in the hinge being placed back in the same position as Cabinet #1
- Here is an example of the hinging formula being declared in the machining database

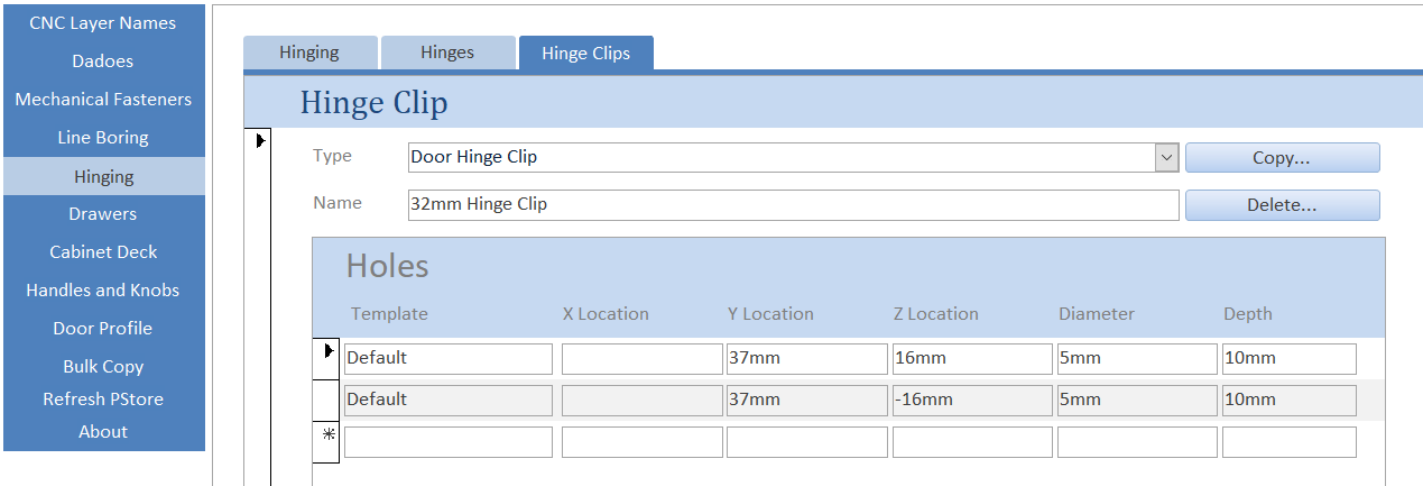


Hinges



The hinge defines the holes to be drilled for one door hinge. The hole locations are specified from the center line position of the door hinge. The center line position for the hinge is defined on the Hinging tab (see Hinging above).

Hinge Clips



The hinge clip defines the holes to be drilled for one hinge clip. The hole locations are specified from the center line position of the hinge clip. The center line position for the hinge clip is defined on the Hinging tab.

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