CabinetSense Wiki

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Line Boring

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Template	Hole Diameter	# Holes	Drill Direction	Span	Depth	Connector	Maximum Length		
Closets	5mm	0	Normal	Cabinet Border	12mm		9999	☑ Build32 Overides Allowed	

from: Spacing:	Front 37mm	Front / Back	Back 268mm	Back 37mm	from Bottom 9.5mm	from Top 9.5mm	Vertical 32mm

Corner Cabinet Backs: #holes in Angled Back: None   Holes in regular backs : All
Regular Cabinet Back: Maximum Span: 1000mm

Default	5mm	3	Normal	Opening	12mm		9999	☐ Build32 Overides Allowed	

from: Spacing:	Front 50mm	Front / Front	Back 50mm	Back	from Bottom [top]/2-32mm	from Top	Vertical 32mm

Corner Cabinet Backs: #holes in Angled Back: 1   Holes in regular backs : None
Regular Cabinet Back: Maximum Span: 600mm

- Template: The template specified on your shelf component. If empty, it will default to your cabinets template.

- Hole Diameter: The Diameter of the shelf pin hole.

- # Holes: If zero, the number of holes drilled are calculated based on the openings height, vertical spacing, space from bottom and space from top fields.

- Drill Direction:

- **Normal (Up for Shelves, Right for Partitions):** Holes are drilled starting from the bottom starting position and will end when the next hole to be drilled encroaches within the specified *Space from Top*.

- **Reverse (Down for Shelves, Left for Partitions)**: Holes are drilled starting from the top starting position and will end when the next hold to be drilled encroaches within the specified *Space from Bottom*.

- **Balanced**: When the # Holes is set to zero, CabinetSense will balance the lineboring for you. It does this by re-calculating the bottom and top freespace so that they are the same relative to their initial values.

- *Pilaster:* This option suppresses the drilling of holes and instead creates a rectangular groove that will be able to receive a Pilaster. The Length of the Groove is determined by the Space from top and bottom and the width of the groove is the value entered into the hole diameter.

- Span: choose between:

- *Opening*: The fields *Space from Top* and *Space from Bottom* is relative to the opening in which the Adjustable Shelf resides.

- *Cabinet Opening*: The spacing fields are relative to the inside opening of the cabinet relative to its top and bottom. Use this setting when you want your lineboring holes to run throughout the cabinet regardless of any fixed shelves or stretchers that would normally stop the lineboring process.

- *Cabinet Border:* The spacing fields are relative to the outer dimensions of the cabinet. Use this when you want line boring to start at the very bottom of the cabinet. This is often used for 32mm spaced systems.

- Depth: The depth to drill your shelf pin holes. CabinetSense will send this field as part of the DXF export when you choose 3D DXF export.

- Connector: You can optionally use a mechanical connector for your shelf. This will provide the necessary machining on the shelf to allow for the fitting of the specified connector. See Connectors for more information.

- Maximum Length: You are able to specify different drilling patterns based on the machining length of the part. For example you may want to drill 4 holes per row on a base or tall cabinet but only 2 holes per row on a wall cabinte.

  - If you specifed 12 (inches) as the Maximum length for the 2 hole pattern, CS would use that pattern for all machining lengths that were 12 inches or less. Specifying 99999 as the length of the 4 hole pattern ensures that all other lengths will use this pattern.

  - Metric lengths are entered with the "mm" designator.

  - Build32 overrides allowed: When you use the build32 system specifically for Closet Manufacturing, the goal is to use the system32 lineboring holes to attach hinge clips, rafix connectors, drawer slides and the like. Positioning of the lineboring holes and connector holes must be synchronized in order to avoid drilling additional holes.

    - When you allow build32 overrides, CabinetSense will do this synchronization for you.

    - CabinetSense will do the following:

  - **Nominal thickness**: the top and bottom hole positions are generally ½ the thickness of the material that you are using. However, if you use a connector that is specifically designed for a certain thickness, your starting and ending positions should be ½ the thickness that the connector is designed for (or the nominal thickness).

  - CabinetSense will change the spacing of the highlighted fields to be ½ the nominal thickness that you specify in the project component.

  - It will also use the nominal thickness to find the connector that you wish to use. This allows you to use material that is not the same thickness as the connector but yet ensure that all your holes line up properly.

  - **Horizontal Spacing**: Normally CabinetSense will position holes from the inside of the back panel when the reference point is from the back. With overrides allowed, only the very back space is from the inside and any other back reference points are measured from the back of the end panel.

  - Space from Front: The amount of white space to leave before centering your front shelf pin hole. This is as measured from the front of your shelf (and not the front of the cabinet).

  - Leaving a field blank will suppress a hole from being drilled.

- Space Direction: The 2nd and 3rd spacing holes allow you to also select the direction the distance is measured from.

- Space from Back: The amount of white space to leave before centering your rear shelf pin hole. This is as measured from the back of your shelf.

- Space from Bottom: The amount of white space to leave from the bottom of the opening. Components that define the start of an opening are cabinet bottoms and fixed shelves.

- You may want to use the *[top]* keyword to position your first hole rather than giving a specific amount of white space. This comes in handy when you want to drill a fixed number of holes rather than using a "gun" style of drilling.

- In the example screen at the top, the default template declares the Space from the bottom as: [top]/2-32mm. It also declares the # Holes as 3. The formula is evaluated as follows: [top] evaluates to the position of the top of the shelf in question. /2 is the thickness of the shelf divided by two. This would position the center of the bottom most hole in the middle of the shelf. The "-32mm" lowers the center of the first hole by 32mm (which is also the vertical spacing requirement for this template). The result of this formula is that there will be three holes drilled, where the 2nd hold is in the middle of the shelf, the first is 32mm lower and the last is 32mm higher.

- Space from Top: The amount of white space to leave at the top of the opening. Components that define the top of an opening are: Cabinet Tops and fixed shelves. You can leave this filed blank if you have declared # Holes to be greater than 0.

- Vertical Spacing: The amount of white space to leave between vertical holes. The space is measure from center to center of the holes.

- Corner Cabinet Backs:

  - #holes in Angled Back: Specify the number of holes that you would like drilled into the angled back.
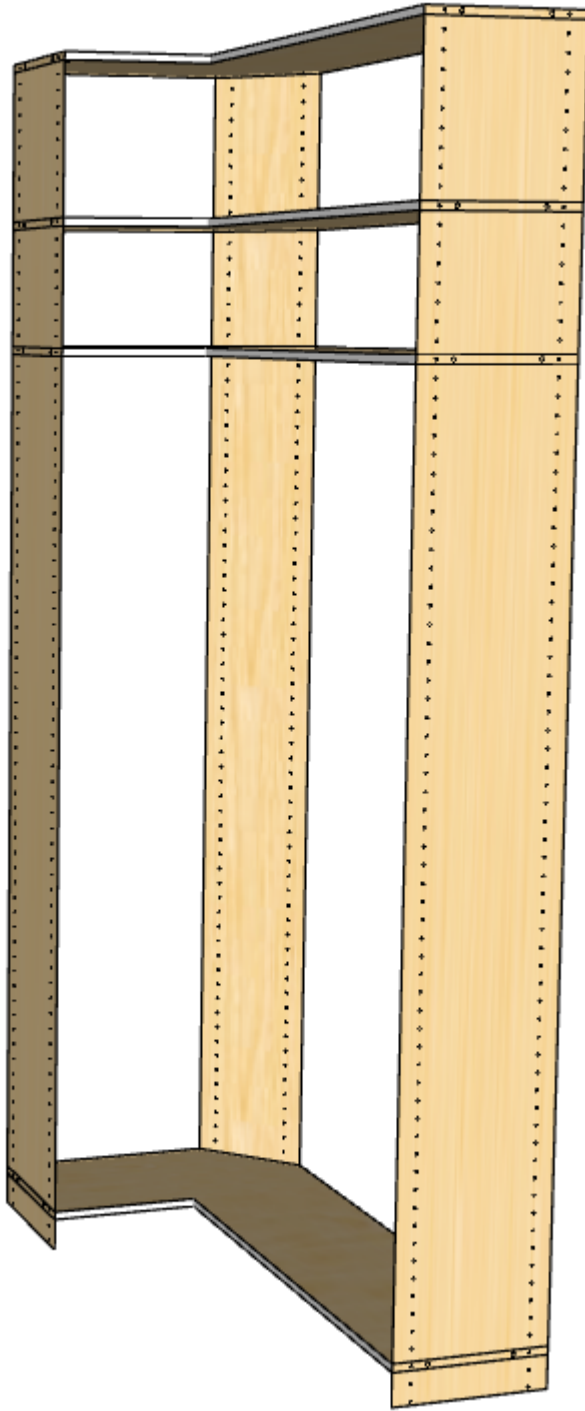
- #holes in backs: Choose how you want the left and right backs to be drilled. Choose from:

  - None:

  - Back Corner (default): only one hole is drilled in the back and it is measured from the back corner.

  - All: The same number of holes are drilled in the back in the same manner as how they are drilled in the cabinets end panels.
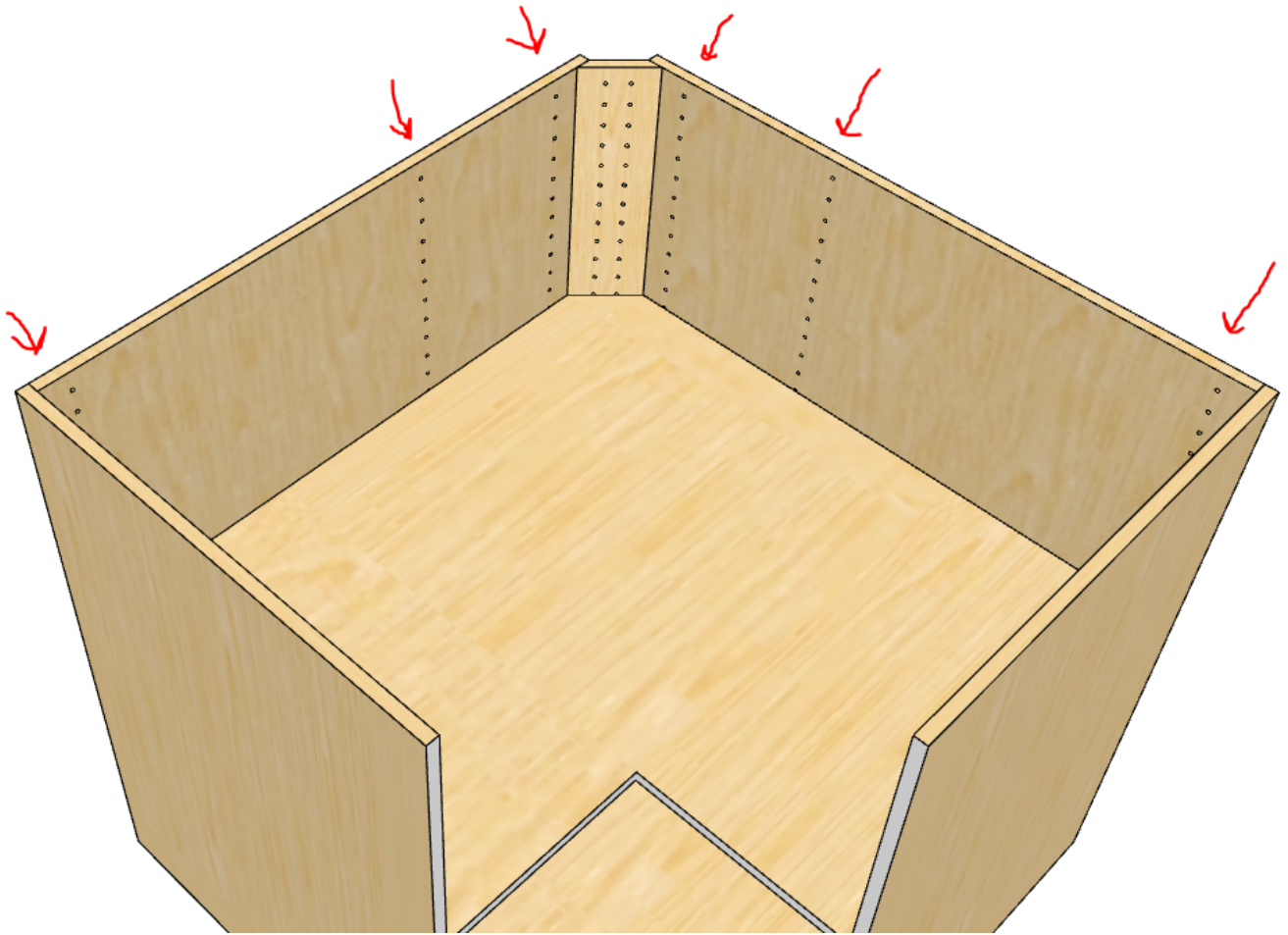
- Regular Cabinet Back: Enter the maximum span allowed between two line boring holes. Any distance greater than this value will cause an extra lineboring hole to be placed.

- Typically, these holes will be wanted when you have an extra wide cabinet (ie. blind corner cabinet).

533.0mm

533.0mm