

Plywood Platen: Dimensions Worksheet

Dimension Name	Definition and Instructions for figuring	Notes	Value
Plywood Panel Length	<p>The length of the plywood panel.</p> <p>Take the long dimension of the largest screen, and add 4"; the hinge clamps mount in this 4".</p>	The panel can be slightly smaller to allow panels from a single sheet of plywood. A full plywood sheet of 4' x 8' can be cut into two 23-7/8" wide panels.	
Plywood Panel Width	<p>The width of the plywood panel.</p> <p>Pick between the long and short dimension of the largest screen. Using the long dimension will allow printing with the screen either way, and leaves room for paper margins. Any dimension between these two is also useable.</p>	Same as above, with panel length.	
Printing Surface Length	The length of the printing surface pane: for glass, use the long dimension of the largest	Extra room with glass is left for caulking	

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	<p>screen. For plastic, pick can be as long as its supporting panel, with cutouts for the hinge clamps.</p> <p>For glass, subtract 1/16" to 1/8".</p>	material.	
Printing Surface Width	<p>The width of the printing surface panel.</p> <p>Re-use the plywood panel width, or subtract 1/16" to 1/8" for glass.</p>		
Printing Grid Length	<p>The grid box's printed length.</p> <p>Take the printing surface length, and subtract 1 inch.</p>	If printed on paper, the paper must be the printing surface length.	
Printing Grid Width	<p>The grid box's printed width.</p> <p>Take the printing surface width, and subtract 1 or 2 inches to the nearest even number.</p>	If printed on paper, the paper must be the printing surface width.	
Hinge Clamp Router Pocket	<p>The depth of the hinge clamp's router pocket.</p> <p>To achieve 0" offset, take the thickness of the printing surface, and subtract this from 1/4".</p> <p>To achieve 1/8" offset, take the thickness of the printing surface, and subtract this from 1/8".</p>		

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<p>Hinge Clamp Installed Offset</p>	<p>The offset of the hinge clamp, when installed.</p> <p>This parameter is not specified, but is the result of the printing surface thickness and the hinge clamp router pocket depth.</p> <p>This can be measured, or calculated by subtracting (1/4" - the printing surface thickness - the pocket depth).</p>		
<p>Hinge Clamp Mounting Fastener Length</p>	<p>The shaft length of the bolts or screws that hold the hinge clamp into the plywood panel.</p> <p>This length is around the plywood thickness, minus any router pocket depth.</p>		
<p>Side Tab Pieces</p>	<p>The length and width of each tab piece, for the ends and sides.</p> <p>Make two end tabs that are a little more than the plywood panel width, and two side that are the plywood panel length. The width of the tabs is a little more (1/32") than the plywood thickness plus the printing surface thickness.</p>	<p>When installing these, cut the width-running pieces to fit.</p>	
<p>Top Tab Piece</p>	<p>The length and thickness of the top tab piece.</p>		

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The length is the width of the plywood panel.
The thickness is either the thickness of the printing surface, or any thickness up to 1/8" greater than the thickness of the printing surface. For this second option, which is easier to find in stock thicknesses (like the 1/8" used in the side tabs), the installed clamp offset must be 1/8", not 0".

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