

Introduction to laser cut design



by DTSL

Company confidential

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Open a new SketchUp project, choose 3D
Printing Millimetres

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Use this template for smaller scale projects such as furniture design.			
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	Start using SketchUp		



 Use the views tool to adjust your camera angle. Remember all exported works must be on the Rex-Green plane





 Start by drawing a box with dimensions 80, 80, 80





 Use the offset tool to create a small square inside it. The offset length should be the thickness of your material. In this case 3mm.







• Repeat for all sides





• Start drawing 16,3 rectangles along the edges of the box. You should use the copy-move tool to help you





 Use the pencil tool to extend the lines across the edges





• It should look like this.





• We'll be using the finger joint method to joint the plates together. Erase lines accordingly.





Make sure you have alternating fingers





• Start designing your box. You can use your 3D text tool. Remember to uncheck the 'Extruded' box





• Place it on the face of the box





 Choose the text. Right click and click Explode to ungroup the lines





 For letters like A, B, D, O, P, Q, R, etc, you have to edit the letters so that the hole is still attached to the plate.





You can use the tape measure tool to help you make reference lines





Start creating geometric patterns with various tools.







 You can use the copy-rotate tool to create symmetrical patterns





• Like this





 Use the copy move tool to copy the face and move it horizontally. Use the rotate tool so that it lies on the Green Red plane.





 Use the copy-move tool and the axis lock to put the top plane on the green-red plane





- Put the lines together to reduce lines of cut.
- Reserve one plate to put a hole for the





- Select the net. Go to file>export to DXF or STL.
- (you have to have the plugin preinstalled)



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	Open			Ctrl+0			
	Save			Ctrl+S			
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	Send to LayOut (Pro Only)						
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