

Project Make Small Building project
Due Monday 5/1/23

We've got some cardboard that we haven't used before. Your task is to make a small building that assembles without the need for glue or tape. All the pieces for your building must fit within 5 by 5 inches. The building must have a roof, and a door, and one or more holes for windows, but does not have to have a floor.

Open Inkscape, create a new document. Under the Document Properties in the File menu, set the document size to 5 inches by 5 inches as shown to the right.

Front page

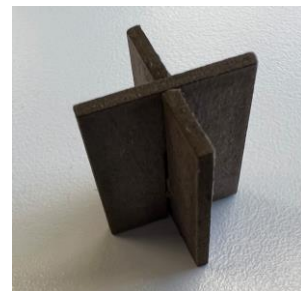
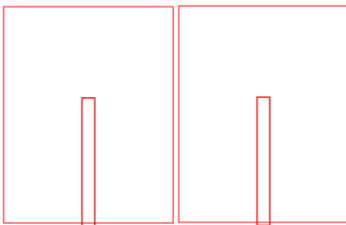
Format: Custom in ▼
Width: 5.000 --+
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Then, make all of your pieces fit in that space.

Everything you want to cut needs to be red, .1 millimeters. If you want to engrave things, turn off all fill and set the stroke to black .1 millimeters.

Put your name in black on one piece.

Slots for this cardboard should be 1.5 millimeters wide, that is how thick the cardboard is. For example, these two shapes below, when cut out, make the parts shown in the pictures which slot together as shown to the right. Obviously this is not a house; I'm just showing you how to make slots. Notice that the slots in Inkscape (far left) are just little rectangles sitting on top of the larger pieces. That is better than doing Path>Difference, because if you need to make changes, you can't very easily after you do Path>Difference. it's fine to just have rectangles sitting on top of other rectangles for cuts.



You may decorate the sides, but only with lines (no images with fill).

Before you send to the laser, check that all fill is turned off, and that lines you want to cut are in red, lines you want to engrave are black, and that all lines are .1 millimeters. Make sure your name is on one piece that will show when you assemble everything. Make sure your building has a roof.

When you have something, send it to the laser cutter and we'll cut it out. Then assemble it and turn it in to get credit. Turn in the Inkscape file on the Google Classroom when you are done.