

Laser Cutting Guidelines

File Types: .dwg

Cutable Materials: plastics, PVC, wood, wood veneer, mat board, chip board, museum board, Mylar,

Available Materials: clear plexi - 1/32", 1/16", 1/8", 3/16", 1/4".
PVC - 0.01", 0.015", 0.02", 0.025", 0.03", 0.04", 0.05", 0.06", 0.07",
0.08", 0.09", 0.1", 0.125"
Vyvic – 0.02", 0.03", 0.04"
Basswood - 1/32", 1/16", 1/8", 3/16", 1/4".
Wood Veneer - 0.025", 0.04"

Maximum Cutting Thickness: 1/4"

Maximum Work Area: Machines 1 & 2: 32" x 18"
Machine 3: 48" x 24" (*will not cut drawings exported from 3d software*)

FILE SETUP:

- Drawing should be setup in a rectangle set to maximum bed size on layer named "Defpoints"
- Laser beam has a thickness of .02" centered on the drawing cut line. All cut lines should be offset out by .01" to preserve the size of the item to be cut.
- Cut lines and Score lines should be on separate layers and labeled accordingly
- Please label thickness and type of material, as well as drawing scale.
- Awad Architectural Models, Inc. is not responsible for errors in original drawing files.
- Polylines will cut faster than individual lines, this will reduce cutting costs
- Check for multiple lines! Multiple score lines drawn on top of each other can cause a score line to become a cut line. Multiple cut lines can produce unwanted results due to excess heat. Multiple lines also increase cutting time.

MISC.

- Any reworking of drawings will be billed in to the hourly cutting rate.
- Materials are charged according to amount used in cutting.
- You have the choice to supply your own materials.
- Some materials will "burn" during cutting or scoring leaving residue on the cut item. Please inquire about material if you need your items to be perfectly clean.