

Laser Cutter Settings

25-Feb-05

Authorized Materials

***Please cut with these specified materials ONLY - Consult with TA regarding materials not on the listed below!!!**

Materials	Thickness	Cut [Power/Speed]	Score [Power/Speed]	Comments
Water Color Paper	140 lbs	65/10		slower speed with burn paper
Mat Board Cold Press	100 lbs	40/10	10/10	
Gator Board	3/8"	45/3		at least 2 passes
Chipboard	1/8"	80/5	30/40	
Chipboard	1/16"	70/8	25/45	
Chipboard	1/32"	65/10	20/50	
Balsa	3/32"	30/5	15/20	
Balsa	1/4"	50/5	20/25	
Press Board	3/16"	100/3		
Basswood	1/32"	25/20		
Basswood	1/16"	60/15		
Basswood	3/32"	65/8		
Basswood	1/8"	75/8	25/25	
Plywood	1/4"	100/3	25/25	
Vellum		55/20	20/25	use with caution
Vellum (Swiss)		45/20	20/30	use with caution
Acetate		25/25		use with caution
Plexi	3/8"	100/3	50/15	at least 5 passes
Plexi	1/32"	75/5	35/20	
Plexi	1/16"	70/5	40/15	absolute lightless score
Plexi	1/8"	95/6	50/20	
Plexi	1/4"	100/2	45/15	needs touch-up sanding

*Feel free to test out the Power/Speed settings yourself to get it right, but remember to stay within the given limits.

Prohibited Materials

*Tentative List	Reason
PVC Materials	Produces Hydrochloric Acid when affected by the laser
Foam Core	Will burn very rapidly if the outer protective paper ignites
Card Board	Material flames and burns easily[evidence: Fall 2003]
Craft Paper	Material flames and burns easily [evidence: Spring 2004]
Paper^	Material flames and burns easily

^includes any type thinner than one-ply