E4 LASER LAB MATERIALS

This is a guide for the materials that are permitted in the laser lab. In general, most organic materials are allowed as they do not off-gas when they burn, as opposed to synthetic materials which often release harmful fumes when burnt. While we have presets for some of these materials, we recommend that students bring extra material for testing and adjusting settings if necessary. If your material is not listed, feel free to <u>email us</u> about it!

APPROVED (mostly organic)

Wood (max cut thickness 3/16")

Hardwood (Cherry, Maple, Walnut) Medium Wood (Alder, Birch) Soft Wood (Balsa, Bass, Pine) Craft plywood *all wood types can be etched

Plastics (max cut thickness 1/4")

Cast Acrylic (check <u>Canal Plastics</u>) *mirrored/glitter acrylic is banned

Blick brand "plexi" is also banned

Paper

Regular paper Heavy Weight Paper Card stock Paper Bristol Printing Paper Vellum

Other

Stamp Rubber Stamp Linoleum Soy Foam Painter's/masking tape Fabric & Leather (natural only) Wool Cotton Felt Silk Leather Suede Denim Muslin Canvas Board (Max thickness 3/16") Chipboard Corkboard

Corkboard Museum board Butter board Illustration Board Bristol Mat Board Masonite Oil Board Cardboard



BANNED (mostly synthetic)

Metal (etch only) Stone (etch only) Glass Fiber Glass Carbon Fiber Foam (all types) Foam Core Liahtina Gels **Mylar Film/Sheets** Rubber (non stamp) Vinul Neoprene Mirrored Acrylic Duct Tape Linoleum (flooring/tiles) M.D.F. Resin Formaldehyde/Chlorine PLASTICS

SYNTHETIC FABRICS

Synethetic leather Nylon Rayon Polyester Spandex / Lycra

THE NEW SCHOOL

Polycarbonate

Polypropylene

Polyester

PVC

Polysterene

PARSONS MAKING CENTER

DISCLAIMER: For health and safety reasons, The Laser Lab reserves the right to stop a cut at any time if the technician on duty feels that the fumes emitted by the material may potentially be hazardous - regardless if the material is approved or not.