

Glowforge Pro Laser Cutter

General Guidelines:

- **MAXIMUM Thickness = 2.5 in – This overrides any material named on this list.**
 - Materials must be less than 0.5 inches to cut
 - No “food” items – fondant, sugar sheets, etc.
 - All material usage is subject to library staff discretion.
 - Actual laser use will be on appointment basis, subject to availability.
 - Users will be limited to 20 minutes of laser run-time per day.
 - **No acrylic, MDF, Plywood thicker than 3mm, or inorganic materials like plastics.**
 - **The Hangar does not provide consumable materials. Users are welcome to bring in consumable materials from this list for use with the equipment and tools.**
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Materials You Can Cut OR Engrave:

Solid Woods
Plywood (3mm or less thickness)
Paper
Cardstock
Chipboard
Cardboard
Cork
Natural-fiber Cloth

Materials for Engraving Only:

Flat Glass
Ceramic Tile
Stone

Designing Info:

- Material Area: 12" x 20"
- Design Area: 11" x 19"
- Preferred File Type - .SVG
- Other file types – PDF, JPEG, PNG, BIT,
- Preferred Design software – Inkscape
- Engrave materials 2.5" or less, Cut THROUGH materials 0.5" or less
- Mechanical designs should be tested on cardboard of comparable thickness before using provided higher-quality materials
- <https://community.glowforge.com/c/free-laser-designs>

Usage Info:

- **Do not leave machine unattended while in operation.**
- **If flames appear, press button to stop print. In case of emergency, unplug machine and use fire extinguisher.**
- Proofgrade materials are allowed - <https://store.glowforge.com/>
- **Burning materials without identification labels (salvaged materials) must be absolutely harmless beyond reasonable doubt. If you cannot PROVE it is not a banned material, DO NOT laser!**
- For more information, please see this article from the Twin Cities Makers: https://wiki.tcmaker.org/documentation/laser_cutters/laser_cutter_materials
- Materials that include adhesives will cause difficulty
- Material should lay flat on the honeycomb tray, secured with T-pins if necessary
- Successful settings are found in the "Glowforge Manual" binder under "Cut Settings" Tab
- Test settings should be logged using the form in the front pocket of the "Glowforge Manual" binder

Cricut Maker

General Guidelines:

- **MAXIMUM Thickness = 2.4mm – This overrides any material named on this list.**
- No “food” items – fondant, sugar sheets, etc.
- Cricut brand materials are allowed
- All material usage is subject to library staff discretion.
- **The Hangar does not provide consumable materials. Users are welcome to bring in consumable materials from this list for use with the equipment and tools.**

Available Accessories:

- Cricut Base tool set
- Fine Point Blade
- Fine Debossing Tool
- Engraving Tip
- Scoring Wheel
- Double Scoring Wheel
- Fine Point Marker Set
- Knife Blade + Drive housing
- Cricut Rotary Blade
- 12” x 12” Light Grip Mat (2)
- 12” x 24” Light Grip Mat
- 12” x 12” Fabric Grip Mat

Designing Info:

- Design Area: Maximum for cuts 11.5” x 23.5”, Print then Cut images is 6.25 x 8.75”
- Acceptable file types – .PNG, .JPG, .GIF, .SVG, .DXF, .BMP

Art Board

Art/Illustration Board	Heavy Chipboard – 2.0 mm
Cereal Box	Kraft Board
Corrugated Cardboard	Light Chipboard – 0.37 mm
Damask Chipboard	Matboard 4 Ply
Flat Cardboard	Metallic Poster Board
Foil Kraft Board – Holographic	Poster Board
Foil Poster Board	

Cardstock

Cardstock (for intricate cuts)	Cardstock, Adhesive-Backed
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Glitter Cardstock
Heavy Cardstock – 100 lb (270 gsm)
Holographic Cardstock

Light Cardstock – 60 lb (163 gsm)
Medium Cardstock – 80 lb (216 gsm)
Patterned Glitter Cardstock

Fabric

Bamboo Fabric	Faux Suede	Medium Fabrics (like Cotton)
Bengaline	Flannel	Medium Fabrics (like Cotton), Bonded
Boucle	Fleece	Melton Wool
Broadcloth	Flex Foam	Mesh
Burlap	Foulard	Microfiber
Burn-Out Velvet	Fusible Fabric	Moiree
Calico	Fusible Fleece	Moleskin
Cambric	Fusible Interfacing	Monk's Cloth
Canvas	Gabardine	Muslin
Cashmere	Gauze	Nylon
Challis	Georgette	Oil Cloth, Bonded
Chambray	Gossamer	Oilcloth
Chantilly Lace	Grois Point	Organza
Charmeuse Satin	Grosgrain	Ottoman
Chiffon	Habutai	Oxford
Chintz	Heather	Panne Velvet
Corduroy	Heavy Fabrics (like Denim)	Peau de Soie
Cotton	Heavy Fabrics (like Denim), Bonded	Pima Cotton
Cotton, Bonded	Homespun Fabric	Pique Cotton
Crepe Charmeuse	Insulbrite Batting	Plisse
Crepe de Chine	Interlock Knit	Plush
Crepe-back Satin	Jacquard	Polyester
Damask	Jersey	Polyester, Bonded
Delicate Fabrics (like Tulle)	Jute	Poplin
Delicate Fabrics (like Tulle), Bonded	Khaki	Printable Fabric
Denim	La Coste	Quilt Batting
Denim, Bonded	Lame	Ramie
Dotted Swiss	Light Cotton	Raschel Knit
Double Cloth	Light Cotton, 2 Layers	Rayon Lyocell
Double Knit	Light Cotton, 3 Layers	Rib Knit
Duck Cloth	Light Fabrics (like Silk)	Rip-Stop Nylon
Dupioni Silk	Light Fabrics (like Silk), Bonded	Sailcloth
Extra Heavy Fabrics (like Burlap)	Linen	Satin Silk
Eyelet	Linen, Bonded	Seersucker
Faille	Lycra	Sequined
Faux Fur	Matelasse	Shantung

Shantung Santeen
Silk China
Silk, Bonded
Slinky Knit
Spandex
Suede
Tafetta

Terry Cloth
Tulle
Tweed
Ultra Firm Stabilizer
Velour
Velvet Upholstery
Velveteen

Viscose
Voile
Waffle Cloth
Wool Crepe
Ziberline

Felt

Felt
Felt, Acrylic Fabric
Felt, Craft Bonded
Felt, Glitter Bonded
Felt, Stiff
Felt, Wool Bonded
Felt, Wool Fabric

Foam

Craft Foam
EVA foam
Glitter Craft Foam

Foil & Metal

Aluminum Foil
Aluminum Sheets
Anodized Aluminum
Brass
Bronze
Stainless Steel

Iron-On

Everyday Iron-On
Everyday Iron-On Mesh
Everyday Iron-On Mosaic
Flocked Iron-On
Foil Iron-On
Glitter Iron-On
Glitter Mesh Iron-On
Heat Transfer (non-Cricut)
Holographic Heat Transfer
Holographic Iron-On

Holographic Iron-On Mosaic
Holographic Sparkle Iron-On
Holographic Sparkle Iron-On Mosaic
Infusible Ink Transfer Sheet
Metallic Iron-On Mosaic
Patterned Iron-On
Printable Iron-On, Dark
Printable Iron-On, Light
SportFlex Iron-On
Transfer Sheet

Leather

Faux Leather (Paper Thin)
Faux Suede
Garment Leather – 2-3 oz. (0.8 mm)
Garment Leather – 4-5 oz. (1.6 mm)
Genuine Leather
Metallic Leather
Shimmer Leather – 1 mm
Tooling Leather – 2-3 oz. (0.8 mm)
Tooling Leather – 4-5 oz. (1.6 mm)

Tooling Leather – 6-7 oz. (2.4 mm)

Paper

Clear Printable Sticker Paper	Light Patterned Paper
Construction Paper	Mulberry Paper
Copy Paper – 20 lb	Notebook Paper
Copy Paper – 24 lb	Paper, Adhesive-Backed
Copy Paper – 32 lb	Parchment Paper
Corrugated Paper	Pearl Paper
Crepe Paper	Photo Paper
Deluxe Paper	Rice Paper
Deluxe Paper Foil Embossed	Shimmer Paper
Flocked Paper	Sparkle Paper
Foil Paper – 0.36 mm	Sticker Paper
Freezer Paper	Sticker Paper, Removable
Grocery Bag	Sticky Note
Handmade Paper	Tattoo Paper
Heavy Patterned Paper	Tissue Paper
Heavy Watercolor Paper – 140 lbs Kraft	True Brushed Paper
Cardstock	Vellum
Laser Copy Paper	Wax Paper
Light Glitter Paper	Wrapping Paper

Plastic

Acetate
Cutting Mat Protector
Foil Acetate
Gel Sheet
Plastic Canvas
Plastic Packaging
Stencil Film – 0.4 mm
Transparency

Wood

MUST be Cricut brand.
Balsa – 1/16" (1.6 mm)
Balsa – 3/32" (2.4 mm)
Basswood – 1/16" (1.6 mm)
Basswood – 1/32" (0.8 mm)
Birch, Permanent Adhesive
Natural Wood Veneer

Vinyl

Adhesive Foil	Non-Adhesive Vinyl – 20 Gauge
Adhesive Foil, Matte	Premium Outdoor Vinyl
Chalkboard Vinyl	Premium Vinyl
Dry Erase Vinyl	Premium Vinyl – Frosted Glitter
Glitter Vinyl	Premium Vinyl – Frosted Gray
Holographic Sparkle Vinyl	Premium Vinyl – Frosted Opaque
Matte Vinyl	Premium Vinyl – Holographic
Metallic Vinyl	Premium Vinyl – Holographic Bubbles
Non-Adhesive Vinyl – 16 gauge	Premium Vinyl – Holographic Rose Bubble

Premium Vinyl – Mosaic
Premium Vinyl – Pearl
Premium Vinyl – Shimmer
Premium Vinyl – Textured
Premium Vinyl – Textured Metallic

Premium Vinyl – True Brushed
Printable Vinyl
Sandblast Stencil
Stencil Vinyl
Vinyl

Other

Adhesive Sheet, Double-Sided
Carbon Fiber
Colored Duct Tape
Duct Tape Sheet
Foil Tape - Shiny Side Down
Foil Tape - Shiny Side Up
Glitter Duct Tape
Kevlar
Magnetic Sheet – 0.5 mm
Magnetic Sheet – 0.6 mm
Metal – 40 gauge thin copper
Neoprene
Outdoor Vinyl, Bonded
Paint Chip
Party Foil
Printable Foil
Printable Magnetic Sheet
Thick Acrylic (2mm)
Thin Acrylic (1mm)
Transfer Foil
Vinyl Record
Washi Sheet
Washi Tape – 0.06 mm
Window Cling

Brother CS6000i Sewing Machine

General Guidelines:

- **MAXIMUM Thickness = 0.25 in.** This is the maximum height of all layers to be sewn, not the thickness of each individual fabric.
- Materials other than fabric should not be used with this machine.
- Machine is not intended for heavy duty fabrics.
- All material usage is subject to library staff discretion.
- **The Hangar does not provide consumable materials. Users are welcome to bring in consumable materials from this list for use with the equipment and tools.**

Available Accessories:

- Zigzag foot
- Buttonhole foot
- Overcasting foot
- Monogramming foot
- Zipper foot
- Blind stitch foot
- Button fitting foot
- Walking foot
- Quilting foot
- Quilting guide
- Eyelet punch
- Seam ripper
- Twin needle
- Ball point needle
- Cleaning brush
- Extra spool pin

Approved Materials:

Bengaline	Gossamer	Raschel, Knit
Broadcloth	Habutai	Rayon
Calico	Heather	Rib Knit
Canvas	Jersey	Satin Silk
Cashmere	Khaki	Seersucker
Chambray	La Coste	Silk
Chantilly Lace	Lame	Slinky Knit
Charmeuse Satin	Linen	Spandex
Chiffon	Lycra	Tafetta
Chintz	Melton Wool	Tulle
Cotton	Mesh	Tweed
Crepe-back Satin	Microfiber	Velour
Denim	Muslin	Velveteen
Eyelet	Nylon	Viscose
Flannel	Organza	Voile
Fleece	Oxford	Waffle Cloth
Foulard	Plisse	Wool Crepe
Gabardine	Polyester	
Gauze	Poplin	
Georgette	Quilt Batting	