LIGHTWAVE LASER
ELEGANCE AND EXPERTISE IN LASER CUTTING
Fourteen years ago, Lightwave Laser released our first line of laser-cut wood wall art for the Frank Lloyd Wright Foundation. These products were released after an intensive, twelve-month research effort to develop the techniques and expertise necessary for high-quality, decorative cutting of wood. As it turns out, it’s not easy to laser-cut wood at the quality levels expected by our customers.

Since then, we have tried to advance the art and technology of decorative laser cutting every year. Over the years, we have added increased material thicknesses, increased panel sizes, and a variety of new materials and artworks. We offer a diverse assortment of materials and finishes that can be used in an array of products, such as wall partitions, light boxes and ceiling panels. This catalog, and our on-line gallery, illustrate the variety of amazing interior and exterior spaces that have been created using our products.

We understand that our customers—design professionals such as Interior Designers and Architects—have a tough job. Their clients expect them to create something transformative and wonderful, while staying on schedule and budget. Lightwave Laser’s job is to provide design professionals with product choices that meet their practical needs as well as aesthetic vision. The majority of our clients choose stock materials and patterns, custom-sized to the specific installation. In addition to our design and technical expertise, we pride ourselves on customer service: one internal Project Manager providing support from initial questions through finished project.

Introducing Powder Coating on Wood

Continuing to move forward with innovative solutions, we are adding an amazing finishing option for all our products. In the second half of 2018, Lightwave Laser will install an automated powder-coating line for wood. This is a major investment, and a significant step forward for us and our customers. Powder coating offers powerful advantages over other finishing options:

- Extremely durable and hard finish
- Lower cost than other finishing options
- Reduced finishing and cure times to reduce overall finishing lead time
- Very “green” finish with no VOC’s
- Variety of different finishes, including primer, colors, metallics, and clear finish over stained or unstained wood.

Currently, there are no wood powder-coating lines in California. Within the last few years, breakthroughs have been made on both the powders and ovens needed to powder-coat wood so that this process is now ready for manufacturing. We are proud to be on the cutting edge of this process, and to offer another innovative solution to our customers.
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Lightwave Laser provides a reliable combination of great design and excellent customer service. Their custom capabilities bring conceptual designs to life through their exemplary attention to detail.

—Michael Cape, Twist Modern

Lightwave Laser continues to move forward as a leader in decorative laser cutting
Wall partitions

Installed wall partitions bring together art and function. They can be used to divide large spaces, add interest and light to dark spaces, or screen in a booth or small area, while adding a unique and beautiful look. For areas greater than 2' wide, partitions should be framed in, and for high traffic areas, a ¾" thickness is recommended for durability. Partitions can also be back-lit to add a dramatic look to your hotel, restaurant, or office environment.
Wall partitions

Wall partitions are our most popular application. Wall partitions help define the space, while allowing light and visibility from other areas. The photos on the opposite page show typical uses. For residential and some hotel projects, a wall partition can be used to divide an entry area from the rest of the room. The entry area is both separate and connected.

For restaurants, wall partitions are commonly used to define the dining area from other areas such as a hallway, bar or kitchen. The wall partitions add a decorative focal point and separation from other parts of the restaurant.

To add more interest, a wall partition can be made of two panels separated by four or more inches. Lighting can be incorporated in the top or bottom between the panels, giving the wall partition a feeling of motion as you walk by. The two separated panels change appearance as the guest walks past the wall partition.

“The panels are up and looking gorgeous! Everyone is stunned by them.”
—Amanda De Seta, Lointerhome, Admiral Reo LLC

Carey Buckner, Columbia, MD
Creative Builders, North Carolina Architecture, NC
Newland Interiors, Fordland, MO
Hospitality Construction Services, Chevy Chase, MD
Back Lit

Light boxes can be used in a wide variety of applications and create a dramatic focal point for your space. We manufacture custom light boxes designed to your specifications, sized up to 4’ x 8’ and made of wood or metal. Each light box comes hardwired, ready for installation by your electrician, or you can opt for a standard power cord.

Typical light boxes sit 4” deep from the wall and give off virtually no heat, so they can be fully enclosed. They include white, low voltage LED lights, frosted light-diffusing acrylic panels, and a transformer with a dimmer. To mount your light box, a back panel made of MDF attaches to the wall. Thumbscrews or flathead screws are used to attach the light box to the back panel. Most light boxes are made of ¼” thick wood. They can be wall- or ceiling-mounted, depending on your desired use. LEDs can come in a range of colors and a remote-control option is available.

Electrical codes vary by location, so please consult with your local electrician for installation and wiring needs. Custom light boxes larger than 4’ X 8’ can be made if desired, contact our customer service representative about your project specifications.

Hampton Inn, San Francisco, CA
Back Lit

Back-lit panels are an easy way to make any space more dramatic. Lighting with a laser-cut decorative panel helps set the feel for the room. As is shown on the opposite page, back-lit panels can be used on ceilings, above beds, behind reception desks, behind bars, or as signage indoors or outdoors. For larger installations, many different back-lit panels can be wired together so that they are all controlled by one dimmer. In addition to warm white LED’s, our back-lit panels use color-changing LED’s. These can be programmed to stay one color, or slowly transition through a variety of selected colors. Back lit panels can be constructed in a variety of different ways to meet your particular design requirements.

“"The laser panels are here and they’re gorgeous! THANK YOU for saving the project.”
—Linda Elmquist, Coordinating Producer, HGTV & DIY Networks Bath Crashers

Japanese Bamboo, Photography by Martin King
Artisan Design Group, San Diego, CA
Clearview Development, Medford, OR
Angelica Henry Design, Scottsdale, AZ
Ceiling & Skylights

Ceiling panels can be a relatively inexpensive way to enhance a look and add dimension to your design. Often back-lit with LED lighting, these panels are available in 1/4” or 1/2” wood and can be made of fire-rated material. Our team can advise you on the best pattern choices to create your desired ambiance and help with sizing and construction considerations. Ceiling panels are a fantastic addition to restaurant bars, hotel lobbies, and private bathrooms or spas.
Ceiling & Skylights

Laser-cut ceiling and skylight coverings have been gaining popularity in the hospitality and design industry, and it’s easy to see why. The applications are endless when you consider combinations of pattern, color, size, placement and lighting. As you can see from the photos here, a laser-cut panel adds interest and texture, whether it is back lit, used as a valance, wood stained, or painted. These eye-popping panels will be a focal point, or create a desired ambiance – your choice!

“I searched far and wide to find a shop that would—let alone could—cut 1/4” Delrin with a laser, and am so glad I finally found Lightwave… it’s not an exaggeration to say that the precision and quality—especially edge quality—you consistently deliver makes my product not only possible, but increasingly regarded as the new “gold standard” among its competition… so that is just to say that I really appreciate your service, and highly value my relationship with Lightwave… very excited to continue working with you, and look forward to big (and good!) things to come”

— Kevin Pratt, Invictus Practical, LLC

Ruth’s Chris Steak House, Albuquerque NM

Red O Restaurant, Santa Monica, CA

Hotel Rose, Portland, OR

AG Spanos, The Enclave at Cherry Creek, Parker CO
Window Coverings

Laser-cut panels in windows or doors add privacy and reduce direct sunlight exposure, while remaining decorative and adding a unique element to your space. The shadow cast by your pattern creates a subtle visual interest that changes throughout the day. Window inserts are installed by either attaching the panel to a strip of wood or installed using Velcro for easy removal and window cleaning. Sun exposure and moisture considerations are important factors when choosing your material and pattern.
Window Coverings

Window coverings can be the most dramatic application for our laser-cut panels because the quality and intensity of light coming through the openings changes as the hours pass. The choice and scale of pattern will add to the drama and enhance the existing atmosphere of design.

“The clients are thrilled and you should see how many people walk up to them to touch them and try to figure out what they are made of and how they are mounted, etc. Honestly, it was probably the most transformative element of our entire renovation.”

—Keith Fortner, Christopher Kennedy Design

Private residence, New York, NY

Ayres Hotel, Anaheim, CA

Private residence, New York NY

Private residence, San Francisco, CA
Room Dividers & Floor Screens
Dividing up a large space does not mean sacrificing beauty. Floor screens are an attractive and versatile way of creating privacy or setting distinct locations in a large area. They can also be used to cover a less desirable room feature with a magnificent piece of functional art. Typically, our floor screens are ¾” and can be hinged to stand alone. Your contractor can frame in the screen panels if thicker wood is desired.
Another unique design feature is to use our panels for deck or stairway railings which can be enclosed in a beautiful pattern that provides both safety and privacy, while still letting in light. By using a plywood core for added strength, we can help you choose patterns that meet code restrictions on opening size and function. Not all patterns are suitable, but we can help you choose the right look for your project.

For projects which require added strength and safety, acrylic or polycarbonate can be added behind the laser-cut panel. This eliminates any potential problem with opening sizes in the artwork, and adds increased impact resistance and strength. We can provide you with photos of staircase railings constructed with this method.
Incorporating laser-cut panels into your cabinetry or furniture design is an easy way to add a unique feel. Patterns can be custom made to match other elements on your project, or you can use one of our patterns to enhance your look. The ¼” laser-cut panel can be attached directly to your cabinet door as a decorative element, or for a more open look, your contractor can frame it in to your project on its own or in front of glass. Panels can also be back-lit with LED lights. Our furniture and cabinetry are frequently used in private residences, in corporate work environments, and hotels.
Cabinetry

Many cabinet-makers prefer to order their panels unfinished, to be able to finish the entire cabinet at once. We also work with a number of furniture-makers who are thrilled with the number of pattern choices and flexibility of wood veneer options and wood thicknesses.

“The panels were fantastic! They arrived timely and were in perfect condition ready to paint. We were so happy with them. Thank you for getting them to us so quickly! They made the room.”
— Julia Dunne, JFY Designs
Return Air Grills & Radiator Covers

Our laser-cut panels are meant to cover function with beauty. Laser-cut air-return grills or radiator panels provide the open space needed for proper air circulation, and also enhance the environment. Wood is usually 1/4" or 1/2" in thickness. Check with your HVAC specialist, but patterns usually need to provide a 50 - 70% open area.
Decorative

All of our panels are decorative, though sometimes a particular decorative element shines. Intricate and detailed patterns cut in metal or wood will create an eye-catching focus for your overall space. Select a pattern that will accentuate your existing decor, choose a wood finish that complements your flooring or trim, or go with a trendy powder-coated color on a metal panel to match your color scheme. Panels can attach to a wall, create an entire wall, or be made to fit into a decorative grouping. Your imagination is the only limitation.
Decorative

The variety of ways a panel can be decorative is endless, but several are illustrated in these photos. The back lit panel was provided to our client in unfinished wood so the entire cabinet could be stained together. And what a nice touch to provide the lovely texture behind the painted cabinet shelving. In the orange living room, the simple addition of a traditional geometric pattern ties the whole room together.

“I’m excited to tell you that we are finally moving into our new house tomorrow. The panels were put up last week and look amazing! They help define our dining room and are a main feature on our first floor.”
— Carey Buckner

Barrett Design, Inc., Orlando, FL

Tradition Homes, LLC, Nashville, TN

Modern Table, Kent, WA

Chris Moore Interiors, Santa Barbara, CA
Signage

Alternative to conventional signage, laser-cut signs draw attention to your logo and company branding. Lighted signs optimize effect and visibility. Modern solutions include solar, battery power, or low voltage LED elements. Signs can also be constructed for both indoor or outdoor applications. We use an outdoor MDF which can be painted, or a wood veneer on outdoor MDF with outdoor-rated adhesives for an all-weather product.
Outdoor & High Moisture Areas

We have the right material for high moisture projects. Weather-proof wood options, laser-cut metal, or phenolic can all be used safely, will not warp, and will look perfect in a spa, bathroom or garden. Our laser-cut outdoor panels are often used to add privacy to decks, as customized art on the outside of religious institutions or buildings, and in hotel outdoor spaces with bars, restaurants, and lounges. Whether you add art to your garden, create an outdoor living space, or just bring natural elements to your indoor relaxation areas, we have the products that can last.
Outdoor & High Moisture Areas

The photo on upper left is at a residence in Bellevue, WA. The customer wanted a visual block as well as a pleasing, peaceful atmosphere. The panels were made from Cold Rolled Steel and then powder coated. The panel using our Japanese Bamboo pattern in the next photo uses bare, unfinished aluminum. To get a wood grain look in an outdoor material bamboo veneer can be glued to our outdoor MDF. Other veneers may also work depending on the amount of exposure to the elements.

“The clients are thrilled and you should see how many people walk up to them to touch them and try to figure out what they are made of and how they are mounted, etc. Honestly, it was probably the most transformative element of our entire renovation.”
— Keith Fortner, Christopher Kennedy Design

Private residence, Bellevue, WA
Private residence, Venice, CA.
Private residence, Corte Madera, CA
Lerch Construction, Hatemi Masjid, Palo Alto, CA
Patterns

Our creative department maintains an extensive library of art, featuring patterns inspired by clean natural lines, and dramatic geometry from around the world. We are happy to modify our patterns to meet your needs. Whether bold graphics or subtle florals, use one of our patterns or create your own signature masterpiece. Our staff will work with you throughout the quoting, proofing, and manufacturing process, ensuring your project exceeds all expectations.

The renderings on the following pages represent 23” x 23” sections of a panel, in what we call the standard scale. If you prefer the pattern to be a different size, scaling it up will be done at no charge. Scaling it down up to 10% will not incur extra cost. More than 10% will result in increased cost, the amount being dependent on the percentage of reduction, due to increased laser time.

We do make small adjustments to the scale of each pattern, so that it fits on the panel in the most aesthetically pleasing way. You will receive a detailed proof showing how the pattern fits on your panel size. And we also have 8” x 8” samples available in each pattern.
New 2018 Patterns

Braids
Cambium
Cantaloupe
Moss
Oslo
Triangle Mosaic
Ginza
Hartman
Hex Flower
Truckee
Wavy Leaves
Leeds Grille
Lounge Grille
Mesh
Pattern Library

- Arabesque
- Arabesque 2
- Arabesque 3
- Beijing Grille
- Black Eyed Susan
- Branches
- Arabic Geometric
- Arches
- Atomic
- Breezeway Star
- Brooklyn
- Burbank
- 3D Cubes
- Barcelona
- Basketweave
- Batik Swirls
Material & Finishes

Over the years, we have expanded the materials and finishes available for your project. Material availability falls into three different categories:

Stock Materials: We carry inventory on our most commonly used materials. These stock materials have the advantage of reducing the lead time for your project. They also are economical, and are less complex compared to special ordering more exotic materials. We carry the following materials in stock, in a variety of different thicknesses:

- MDF
- Outdoor rated MDF
- Walnut veneer on MDF
- Maple veneer on MDF
- Alder veneer on MDF
- White Oak veneer on MDF

Special order but commonly available: The next category is material that is special-order but fairly easy to purchase. Typically this material has a lead time of 3-5 weeks which happens in parallel with the art/ proof process. These items include:

- Fire-rated MDF
- Common veneers on fire rated MDF
- Common veneers on outdoor rated MDF
- Common veneers on plywood
- Other veneers such as Cherry, Poplar, Mahogany and Rift Oak

Special order uncommon materials: This includes items like certain engineered veneers, FSC-certified materials, and anything not carried by our regular vendors. Lead times on these materials are typically 4-8 weeks.

Finishes: The most common finishes are described on the following pages. In addition to the powder coating options, we do have the ability to finish with some metallic and pearlescent paints. Please contact us for more information on paint options.
Stock Wood and Outdoor Materials

Unfinished Maple
MDF or PLY Core
Unfinished Maple is one of our most popular choices, especially for woodworkers. It has a smooth surface suitable for painting or staining a light color. Slightly stronger and easier to paint than MDF. When extra strength is required, we have 3/4” Maple with a ply core, now available as a standard wood.

Standard thickness for MDF CORE: 1/4”, 1/2”, 3/4”
Standard thickness for PLY CORE Maple: 3/4”

Unfinished Alder
Alder is very similar to Maple but slightly darker, and works well if you are staining a medium or dark color. Slightly stronger and easier to paint than MDF. When extra strength is required, we have 3/4” Maple with a ply core, now available as a standard wood.

Standard thickness for MDF CORE: 1/4”, 1/2”, 3/4”
Standard thickness for PLY CORE Maple: 3/4”

Unfinished Walnut
Our Walnut veneer is a beautiful woodgrain suitable for staining or applying a clear coat to bring out the natural grain.

Standard thickness: 1/4”, 1/2”, 3/4”

Unfinished White Oak
White Oak veneer varies from a pale yellow to a brown color, and can be mottled with gray. The grain is very straight with long rays. It is a dense, strong and durable wood.

Standard thickness: 1/4”, 1/2”, 3/4”

MDF
Multi-density fiberboard is our most economical choice. Its surface is flat and smooth, uniform, dense and free of knots or grain patterns. It makes a superb carrier for veneers. It is recommended for painting applications, and is not recommended for staining.

Standard thickness: 1/8”, 1/4”, 1/2”, 3/4”

Outdoor MDF
Outdoor MDF is an excellent choice for outdoor use. It is a heat and pressure-treated wood made from non-toxic materials. It is waterproof, paint adheres to it easily and it has an impressive fifty-year warranty.

Standard thickness: 1/4”, 3/8”, 1/2”, 3/4”

Phenolic
A great choice for an outdoor application, phenolic is made from resin and paper and is extremely strong and dense. It is available in a beautiful matte black color which does not need any finishing. It also takes paint well.

Standard thickness: 1/4”
Examples of Special Order Materials

**Unfinished Bamboo-Plycore**
We now have unfinished Bamboo with a ply core available as a standard wood. It is a fast-growing, sustainable wood choice and the ply core is extremely strong. It can be stained or clear-coated and is also beautiful if left unfinished.
Standard thickness: 1/8".

**Fire Rated MDF**
Fire rated MDF is a sustainable Class 1 retardant rated fiberboard. An additive is blended with the fibers during processing to spread flame retardant throughout the board. It can be sanded and painted without diminishing its fire retardant qualities.
Standard thickness: 1/8", 1/4", 1/2", 3/4".

**Acrylic**
Acrylic is available as a special order in various colors and degrees of transparency. It can be laser-cut or used as a backing material.
Various thicknesses and colors available.

**White Laminated Shoji Paper**
Laminated Shoji paper has a beautiful, textured surface. It is surface-washable and very durable. White has a rice paper look.
Thickness: 2mm; Max. Width: 3ft.

**Tan Laminated Shoji Paper**
Laminated Shoji paper has a beautiful, textured surface. It is surface-washable and very durable. Tan is more uniform in color than white.
Thickness: 2mm; Max. Width: 3ft.

**Light-Diffusing Acrylic**
If you will be back-lighting a panel, this is an excellent choice for a backing material. It diffuses light well, and has a uniform frosted look. Matte one side, shiny one side.
Standard thickness: 1/16", other sizes available.
Metal

Metal is a great material for certain applications. Compared to wood, metal is stronger, well-suited to outdoor uses, and can be finished in a huge number of powder-coating options. Metal panels are much thinner than wood panels, and stronger. Our most common steel material thicknesses are 10, 12 and 14 gauge. These thicknesses are .141”, .109” and .078”. In aluminum, our most common thickness is ¼” thick, although other thicknesses are available.

Steel and aluminum material comes in sheets up to just under 5’ x 10’. Metal can also be bent or rolled after laser cutting, so panels can be curved to make interesting shapes or bent to make columns or U-shaped light boxes.

The laser-cutting process introduces heat into the metal, so there are some additional considerations for patterns to be laser-cut. Some patterns are too intricate or leave narrow lines and can get too hot and warp. Please contact us for suggestions on which patterns can be laser-cut in metal.

All steel should be powder-coated, unless you want a naturally rusted finish. Aluminum can be unfinished or powder-coated. Outdoor applications near salt water should be aluminum.

Aluminum

Another perfect choice for exterior use, aluminum panels are relatively lightweight and can be installed outdoors without powder coating.

Cold Rolled Steel

A versatile alternative for both interior and exterior applications. Finish with UV stable powder coating to offer an array of colors and textures.
Standard Stain Colors for Wood

We now offer eight "standard" stain colors, which can be applied to any of our four "standard" wood veneers — Maple, Walnut, Alder and Oak. This means a total of 32 different combinations of stain color and wood. Please contact us for samples of any of these 32 options. The stains are hand applied, and then finished with a clear finish powder coating for a finished product that is ready for installation (finishes available second half of 2018).
Powder Coating

2018 brings exciting new finishing options for metal and wood panels. These finishing options are divided into the following categories:

Steel and Aluminum
Choose from the more than 5,000 finishing options offered from Prismatic Powders. There are no “standard” finishes, so powder is ordered for every job. Some finishes, such as pearlescent finishes, require multiple steps and are more expensive. Please notify us if your project is located within a few miles of salt water. There are additional considerations for these locations.

MDF
There are three different categories of finishes (available second half of 2018):
- Primer which is ready for your painting. Powder coated primer is durable and will save painting time. Works with any paint.
- 15 “standard” colors. Shown on next page. These colors are in stock and do not require minimum powder purchase.
- 250 special order RAL colors. A wider variety of color options, including some metallic finishes. Requires minimum purchase and extra lead time for the powder.

Wood Veneer on MDF
There are two different categories of finishes (available second half of 2018):
- Clear finish on veneer. Any veneer option can be clear powder coated. Standard veneers are Maple, Walnut, Alder and Oak.
- Clear finish on “standard” stain colors and veneers. 32 different options using the eight “standard” stains with the four standard veneers. Stain colors are shown on the previous page.

The general durability of powder coating is superior to other finishing options. It is baked on resin and cures in a 300-degree oven.

It doesn’t crack or flake off, sprays on electro-statically, and contains no VOC’s. It is an environmentally-friendly finish, and similar to a hard-baked enamel. Unlike painting, it is permanent and does not require re-painting.

Powder Coating requires wood that is a minimum of 1/2” thick. 1/4” thick panels are offered in unfinished wood or pre-finished options.
Stock Powder Coating Colors for Wood

- Ruby Red
- Maize Yellow
- Pure White
- Oyster White
- Pearl Gentian Blue
- Pale Green
- Gray Beige
- Traffic Grey
- Pearl Copper
- Olive Yellow
- Traffic Orange
- Traffic Grey
- Pearl Gold
- Pearl Water Blue
- Jet Black
- Pearl Light Grey
Powder Coating Colors for Metal
(Examples from the 5000 available finishes)

- Dark Mauve
- Flag Orange
- Bonnie Sue Blue
- Buckskin
- Bowman Brown
- Snowbird
- Coach Beige
- Olive Drab
- Coastal Grey
- Winter Grey
- Metallic Poncho Blue
- Metallic Brassy Gold
- Metallic Burgundy Rose
- Metallic Bomber Silver
- Metallic Graphite Charcoal
Border Treatment & Pattern Options

You have a vision for your panels, and there are practical aspects to consider such as how it will be installed—will the edges be covered or exposed, is the thickness appropriate for the application, should the scale of the pattern be increased or decreased? Our salespeople can help you decide what will work best. Borders can be customized, patterns can be scaled up or down, holes can be pre-cut, and many other customizations can be accommodated. The following pages give a few examples of most common border options and panel adjustments.

“I cannot begin to tell you of the success and beauty of the panels! Believe me, everyone is raving about them, it’s quite incredible! Thank you so much!”
— Jennifer Chatelain, Westmoreland, Jamaica
Border Treatment

A border is the uncut area that extends beyond the artwork. Borders are important for the stability of the panel, creating a finished look, and helpful for installation of the panels. Panel size refers to the total size of the panel, including the border, while art area refers to the area on the panels that is laser-cut. Standard border size is 1”, but can vary according to your needs.

Panel Size 24”
Art Area 20”

Border size can vary

Border Options

Border uniform size
One setup fee
Border remains uniform on all panel sides.

Border 1/2 size where borders meet
Two Setup Fee
Border is adjusted to 1/2 where panels meet making the interior border appear the same as the outer borders.

No Border Where Panels Meet
Two Setup Fee
Pattern flows continuously across panels. This treatment may not be available for all patterns.

No Border Where Panels Meet
Pattern dictates where panels are cut
Two Setup Fees & Custom Pricing
Pattern flows continuously across panels. Pattern dictates where panels are cut in order to keep pattern intact and keep join area inconspicuous.
Pattern Options

Panel repeated
One setup fee
2nd panel is repeated. Pattern can be awkward where pattern meets.

Panel flipped Horizontally
One setup fee
2nd panel flipped horizontally. Works best using geometric patterns.

Panel flipped Horizontally & Vertically
One setup fee
2nd panel flipped horizontally and vertically. Works well depending on pattern.

Continuous across Panels
Two setup fees
Pattern flows continuously across panels. No border where panels meet. Depending on pattern and it’s placement, some pattern pieces may fall out where pattern meets.

Pattern scaled down
One setup fee
Patterns scaled down are subject to an up-charge. Price increase depends on percent reduced.

Pattern scaled up
One setup fee
No charge for patterns scaled up.

Border follows custom shape
One setup fee
Patterns and borders can follow custom shapes.

Custom Patterns & Shapes
Setup fee based on project & art
We can use your own custom pattern for your panels. Costs vary per project.

Patterns and borders can follow custom shapes.
Installation

We do not provide installation services for a couple of reasons. We are not licensed contractors, and we ship jobs throughout the country and the world, so it isn’t economical for us to be on-site. But we have experience working on thousands of projects, and can provide you with options and suggestions for your installation. The following pages contain some information on hanging ceiling panels, hanging wall panels, and light box installation. In addition to the information here, please contact us with additional questions and for more details.

We are in the process of expanding available materials and instructions for installation. Additional options will be added, so please contact us to get the latest information.
Hanging options

At Lightwave Laser we know that every space is different and requires a creative solution in hanging or installing your panels. We have considered panel thickness, size, weight and environment in our recommendations for panel installation. While we continue to discover more creative solutions to fit your needs, here are a few options to consider.

Commonwealth Building Inc., Quincy, MA

Lebanon Gaming and Raceway, Cincinnati, OH

Artistry Custom Cabinets, El Cajon, CA

Elemental Wellness, San Jose, CA
Hanging options

Keyhole Slot
A Keyhole Slot on the back of your panels makes hanging convenient and quick. This is possible on panels .5” or thicker. In hanging the panel in this fashion, the panel sits flush against the wall, and is easy to remove for cleaning etc. We recommend this method of hanging for panels smaller than 4’ x 4’.

Velcro
Velcro is another easy way to hang your panels. While it is not suitable for large or heavy panels, Velcro is great for thin panels, allows the panel to sit close to the wall (approx. 1/8”), and is ideal for window covers because of how easily you can remove and reinstall them. We do recommend reinforcing the Velcro with glue or staples especially in areas where temperature fluctuates a great deal.

Magnets
Using magnets to hang your panels is another creative option. We recommend only implementing this method if the panels are .5” or thicker. Each panel may require a different number of magnets depending on weight and size. Magnets hold approximately 5 lbs each and may be used on a wall or on the panel when attaching to a steel frame.

Z Bracket
Z Brackets installed at the top and bottom of your panels provide an extremely strong and stable installation of your panels. This method is ideal for larger panels or heavier panels.

Bolts / Standoffs
Bolts or standoffs can be used for any size panel, in any thickness or weight. With this method, the spacing between the wall and panel can vary, which allows the panel to be back lit or spot lit if desired. Using this approach creates a more sculptural look.
Hanging options

One option for ceilings is using Super Struts. Panels have holes that are 2" apart and are bolted to the ceiling in as many places as necessary. Super Struts are extremely strong. The length of the bolt sets the distance of the panel from the ceiling. If you need a space between the panel and the ceiling that is larger than the available bolt sizes, aircraft cable can be used with the Super Struts to extend the space.
Molding

We now offer a standard molding that can be used with 1/2" and 3/4" wood panels. This molding installation method can be used with either a single-wall panel, or a grouping of 2 or more panels together. The molding is available in the same 4 types of wood and stain options as all of our panels.
Lightbox Assembly

Light boxes can be a beautiful lit piece of art or signage. A 4-inch deep light box is our standard light box depth. We can make them as shallow as 2.5 inches for an additional cost, if needed. Maximum depth is 6-8 inches. Lighting can be assembled on just the perimeter, which gives the light box a pleasing gradation of light from perimeter to center. Alternately, lights can be built evenly across the backing board to create an even distribution of light from within.

There are many dramatic color options available. Warm or cool white light is a standard, and we also offer color-changing light boxes that fade through RGB colors, or can be set to one specific color. One remote can control multiple light boxes for your convenience and ease of use. Perhaps, best of all, they all have a dimmer.

Light boxes come ready to hang with a 3, 6, or 9-foot power cord in the back. They can be hard-wired if requested. The transformer will be built inside the box, unless your electrician has requested it be on the outside.

- 4" deep box fits over backing board with lighting and attaches with flathead screws, flush with edge, at top and bottom.
- 120 volt power goes into transformer
- 4 watts per square foot of light box
- Transformer makes 12 or 24 volts DC
- Dimmer adjusts down from max voltage
- Boxes are turned off by switch on wall
- Light-diffusing frosted acrylic panel is flush behind laser-cut panel.
- LED light attached to backing board, 4" spacing between rows and .66' between lights
- Backing Board is 1/4" MDF
- Lighting will be ready for hard wiring, or optional power cord
- Transformer rests on bottom of box
Order Process

Select
• Application
• Material & Finish
• Pattern

The creative process unfolds as you choose how your panel will enhance your project. Deciding on the best way to display your panel, picking the pattern and material, and choosing a finish, are all decisions that can be discussed with our supportive sales staff. They are happy to offer advice, make recommendations and send out samples.

Quote
• Phone call or on-line
• Discuss pricing
• Finalize sizing

This phase of the process finds you supported by our excellent customer service, discussing your needs specifically and making suggestions for optimum outcome. Aesthetics, safety and environment, affordability and durability are all considered as your quote is promptly prepared. Discussions include set-up fees, border size, pattern scale, material type, pattern and thickness.

Confirm
• Confirm order
• Pay deposit

Once details are finalized and your project is ready to order, a 50% deposit is required. When the deposit is received, your order is confirmed and your lead time commences. Your order is put in the production queue, and our art department creates a proof. We re-confirm measurements and you sign off on the project.

Proof
• Receive proof
• Revise if needed
• Approve proof

A proof of your panel is created, displaying both pattern and border, including relevant details of dimensions, wood choice, thickness, finish and panel quantity. A shipping estimate is also included. Minor adjustments can be made regarding borders and scale, but significant changes cause additional charges. Prompt customer approval and communication is essential to keep the project to the targeted date.

Production
• Manufacture
• Inspection
• Crate

Your panels are cut and finished to your specifications. All panels are inspected and prepared for shipping. Depending on size and weight, your project is packaged in a custom rigid plywood crate and sandwiched in layers of foam. Our shipping process is streamlined to provide you with the best price and most reliable and prompt shippers.

Delivery
• Ship
• Delivery
• Inspection & Signature

You are notified when your project is ready to ship. Our sales team assists you through the remaining details, providing shipping and tracking information, collecting final payment and offering any relevant installation advice. Once the crate arrives, be sure to inspect it for any damage before giving your signature for delivery. Our customer support team will confirm arrival of your panels with you and ensure your satisfaction.
Order Process Continued...

Pricing

$ Prices vary according to the finish selection and thickness.
- 1/8" Material averages $14 - $24 /sq ft
- 1/2" Material averages $19 - $29 /sq ft
- 3/4" Material averages $23 - $35 /sq ft
There is a $100 set-up fee for each differently-sized artwork. Oversize wood has premium pricing. Discounts may apply for larger projects. Please inquire.

Lead Time

L Lead time is determined by art, materials, and any custom work your project requires. Projects requiring custom art or custom finishing or any other custom work will have a longer lead time, while stock art and materials will have a shorter lead time. Please contact us if your project is large in quantity or if there are scheduling considerations.
- Stock Art & Materials 3–4 Weeks
- Add Custom Finish +1 Week
- Add Custom Wood +1 Week
- Add multiple custom options or metal, lead time determined on a project by project basis.

Rush Fees

We can accommodate projects that need a rush. Fees start at $350 or 10% of the project.

Custom Projects

Though we have an expansive library of patterns to choose from, we also specialize in being able to create a laser-ready pattern or artwork from your inspiration. If you are providing us with a digital file, we prefer vector art files rather than raster. Preferred formats are .ai, .pdf, .eps, .dxf, .dwg. We look forward to collaborating on your custom project, and custom art creation.

Shipping Info

We ship using common carrier and use a streamlined process to provide you with the best price, as well as a dependable and prompt delivery. We send tracking information to you as soon as it is available. We ask that you inspect the crate for any damage before accepting the shipment.
Sierra Nevada Brewing Co., Mills River, NC

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