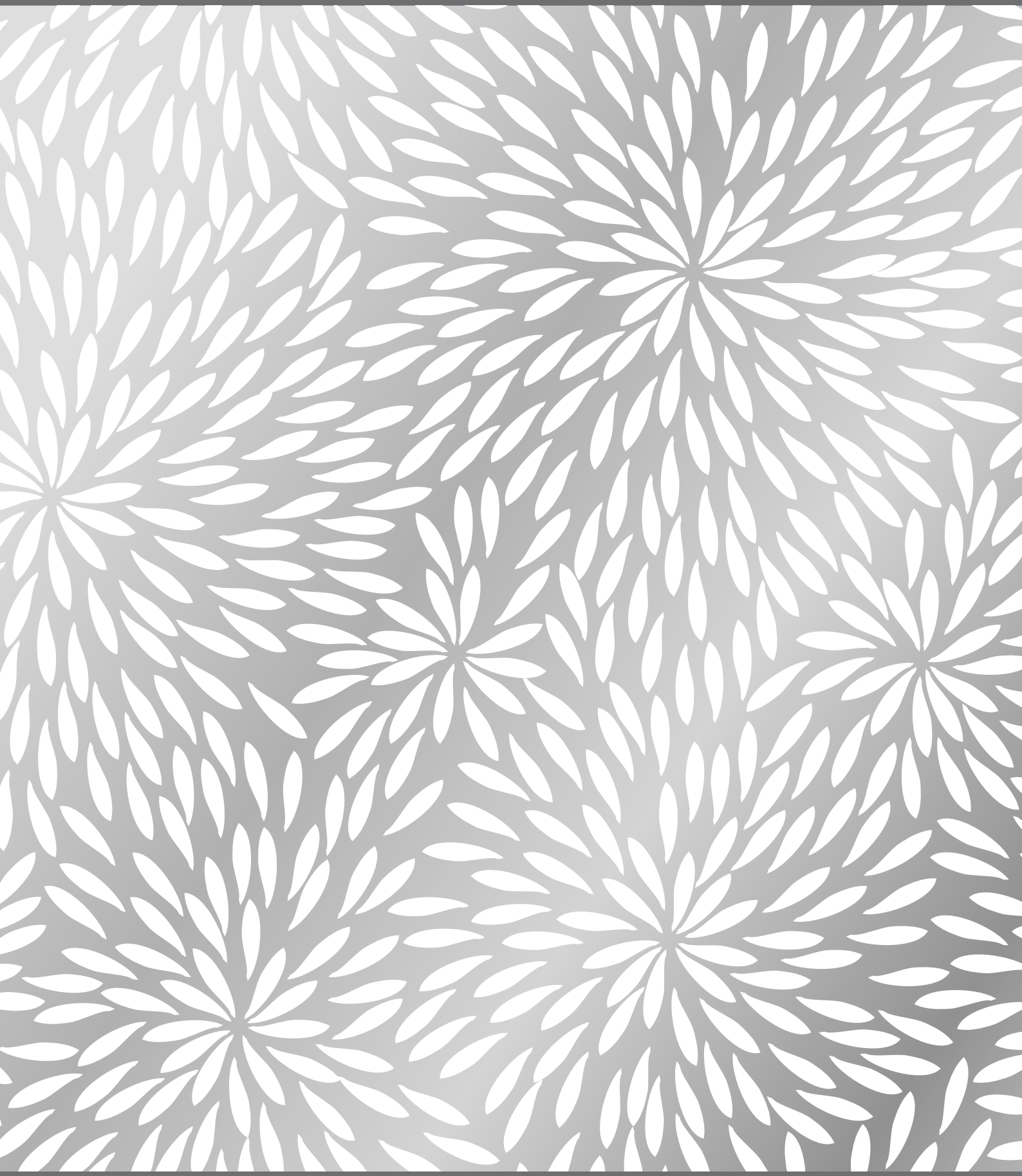
WEBFORGE LOCKER

A valmont COMPANY

Laser



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Amazing effects and designs have been realised using perforated metal, illustrated by numerous projects Locker has had the privilege of being involved with. In the continuous pursuit of innovation and growth, Locker is excited to announce an upgrade to our laser capabilities.

Locker has already supplied projects incorporating laser cut designs, such as the Melbourne Shrine (pictured below). Our in house capability provides you with enhanced flexibility to assist in achieving your vision.

Designs on the following pages are available as detailed, or can be used simply as inspiration for your imagination.

Laser versus Perforating

Perforating has been a Locker specialty for over 25 years, using a punch and die (tooling) almost any shape can be punched into the substrate, usually at regular intervals (pitch) and varying rotations.

Laser cutting allows for any 2D shape to be realised, designs are no longer limited to regular, repeatable shapes and patterns. Although there are design guidelines to take into account, laser opens up the design possibilities without reliance on tooling investment.

Depending on the final design, perforating and laser cutting have their own unique advantages. It's even possible to combine both processes in the same sheet.

Applications

- Privacy Screens
- Ceiling Treatments
- Space Sculpting
- Landscape Features
- Light Features
- Partitions
- Gates
- Balustrade Infill
- Façade Treatments (small or large scale)

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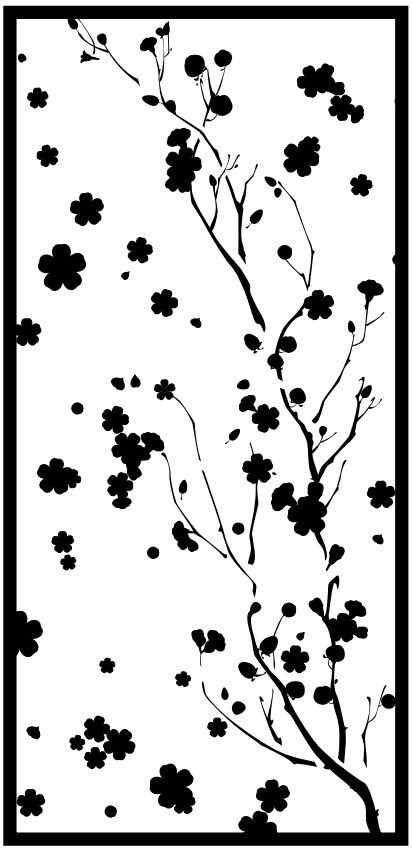
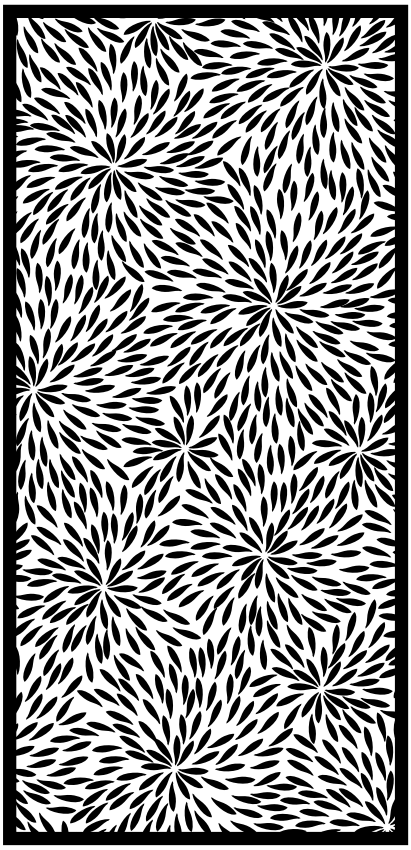
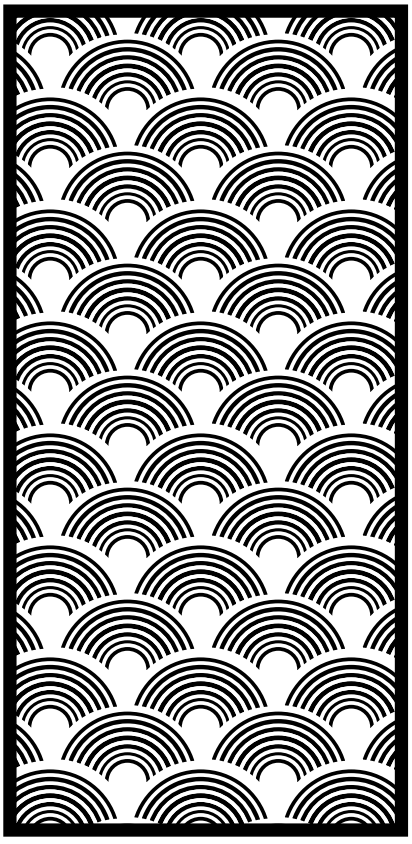
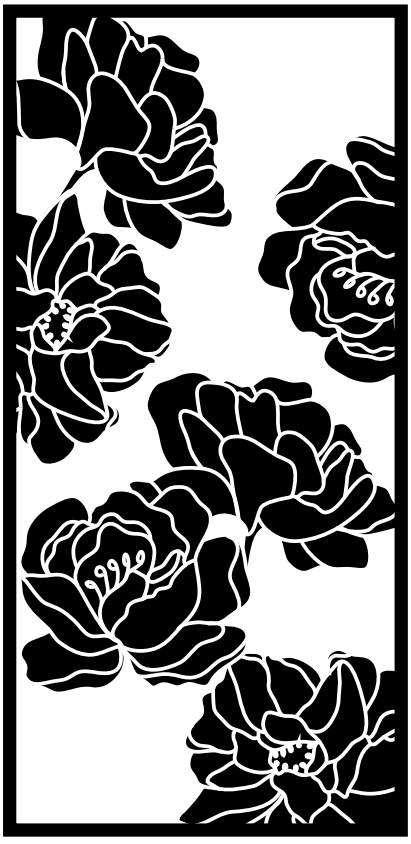
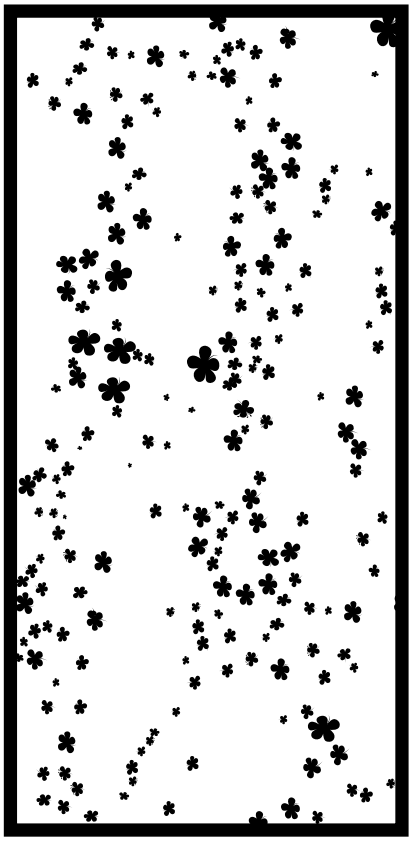










Laser

Design Considerations

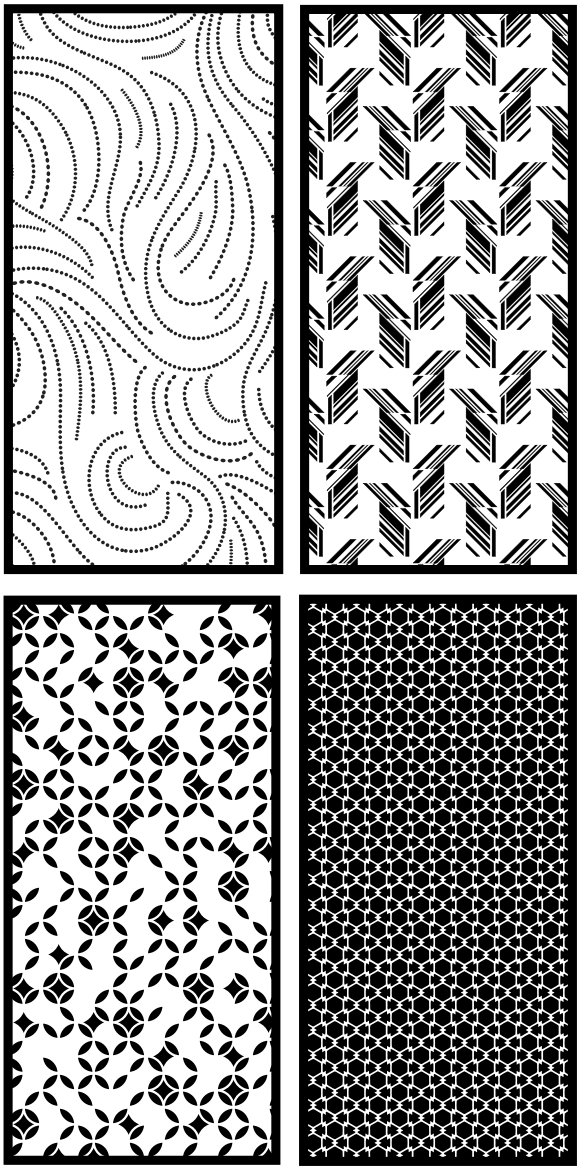
There are several things that should be kept in mind when designing Laser patterns:

- Avoid long cuts
- Include ample support bridges and material joints
- Make all cutouts closed shapes.
- Usually a solid border with fixing holes is required.
- Unique and varied shapes are encouraged.
- Think about the integrity/strength of the final sheet (ie try avoid large/long unsupported shapes).
- Cut shape sizes generally above 50mm wide are more cost effective than perforating.
- Designs with high open area and thin bridges will likely need thicker base material.
- Think about % open area you wish your finished design to be – open for visual, closed for screening, more closed for strength.

In general, for engineered facades keep more material and bridges to help ensure it can be engineered suitably (use our perforated range as a guide).

One way to test your design is to try cutting your own design from a stencil using paper or cardboard. General rule is if a stencil of your shape can't be made then it will not be able to be laser cut from sheet metal.

Our friendly team is here to help. Please feel free to send through your design and we can give you guidance or feedback on whether the design will work or not, and what changes might be needed to help make a quality finished product for you.



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