

**PIC-PERF® SPECIFICATION**

Pic-Perf is a digitally created image produced in Perforated Metal. Pic-Perf® is available in a wide variety of specifications, and is ideally suited for many image types, including:

- Corporate Logos
- Abstract Artwork
- Detailed lettering
- Photographs
- Silhouettes



**ENVIRONMENTAL FACTORS TO BE CONSIDERED**

Pic-Perf® can be created using positive or inverted images, depending on the environmental conditions. It is important to accurately assess the environment, to ensure the type of image is correctly selected for your project.

Pic-Perf® utilises the holes, and background colour, to create the image, hence the overall environment; background lighting and viewing distance are essential considerations.

A positive image relies on a dark or solid background whereas an inverted image relies on an illuminated background; either natural or synthetic light. The environment & image selection will also dictate whether sheets are coated in a light or dark colour. Inverted images are typically coated in a dark color and positive images coated in a light colour to achieve the best contrast between the foreground and background. There are no cost penalties for using either a positive or inverted image.

Discuss your project with a Webforge Locker Architectural Consultant at the outset, to ensure you achieve the best results.

**VIEWING DISTANCE**

The distance between the Pic-Perf® panel and the viewer is also important in determining the final design. There is an ultimate viewing distance at which the image is the clearest. Viewing from closer or further away will result in the image being harder to see.

The ultimate viewing distance determines the range of hole sizes used in the image, for example a panel produced for a foyer wall will utilise smaller holes than panels cladding the side of a building.

## MATERIALS

Almost any malleable material can be perforated, including Aluminum, Mild Steel, Corten (HW350) Stainless Steel, Copper, Brass, Pure Zinc and some plastics. Webforge Locker strongly recommends aluminum be used for external applications due to its high resistance to corrosion and light weight nature.

The thickness of the material is generally determined by the size of the screen canvas area and the detail required in the image; most installations range between 3 to 4 mm thick.

Stainless Steel is only suitable for 2 tone images or applications where only text is required. Mild Steel or steel based materials such as Galvanised steel, Zinc seal or Zinc anneals should only be used for internal applications, unless the sheets are hot dipped galvanised and painted after perforating. However, this secondary coating process can affect the image by blinding smaller holes and hence is usually avoided. In addition, Webforge Locker cannot guarantee the sheets will be 100% flat after hot dip galvanising.

Some of the benefits of using steel are its inherent strength and spanning properties. Hence it's better to use in areas where large spans or strength are required or vandalism may be of concern. It is the responsibility of the buyer to ensure suitable preparation of steels and coatings are applied or specified when using ferrous based steels for external applications. Webforge Locker takes no responsibility for corrosion when using steel externally.

## Coatings and Finishes Guide

	Steels	Pre Zinc Coated Steels	Corten HW350	Aluminium	Stainless Steel	Brass or Copper	Pure Zinc
Electro Galvanising	Y	N	N*	N	N	N	N*
Hot Dip Galvanising	Y*	N	N*	N	N	N	N*
Powder Coat	Y	Y	N*	Y*	Y*	N	N*
Anodise	N	N	N*	Y*	N	N	N*
Linish	N	N	N*	Y	Y	N	N*
Electro Polish	N	N	N*	N*	Y*	N	N*

\* Y/N indicates suitability for coating the particular substrate.

\* denotes the material and coating combination is suitable for external use.

## SHEET SIZES (mm)

The most economical sheet sizes to use are;

1700 x 800	2300 x 1400
1700 x 1100	2900 x 1100
2300 x 1100	2900 x 1400

**Note:** The sizes above are ideally suited to 3 mm Aluminum if using an alternative material or thickness, other sizes may be preferential. Talk to your Webforge Locker architectural consultant for advice on the best sizes for the chosen material.

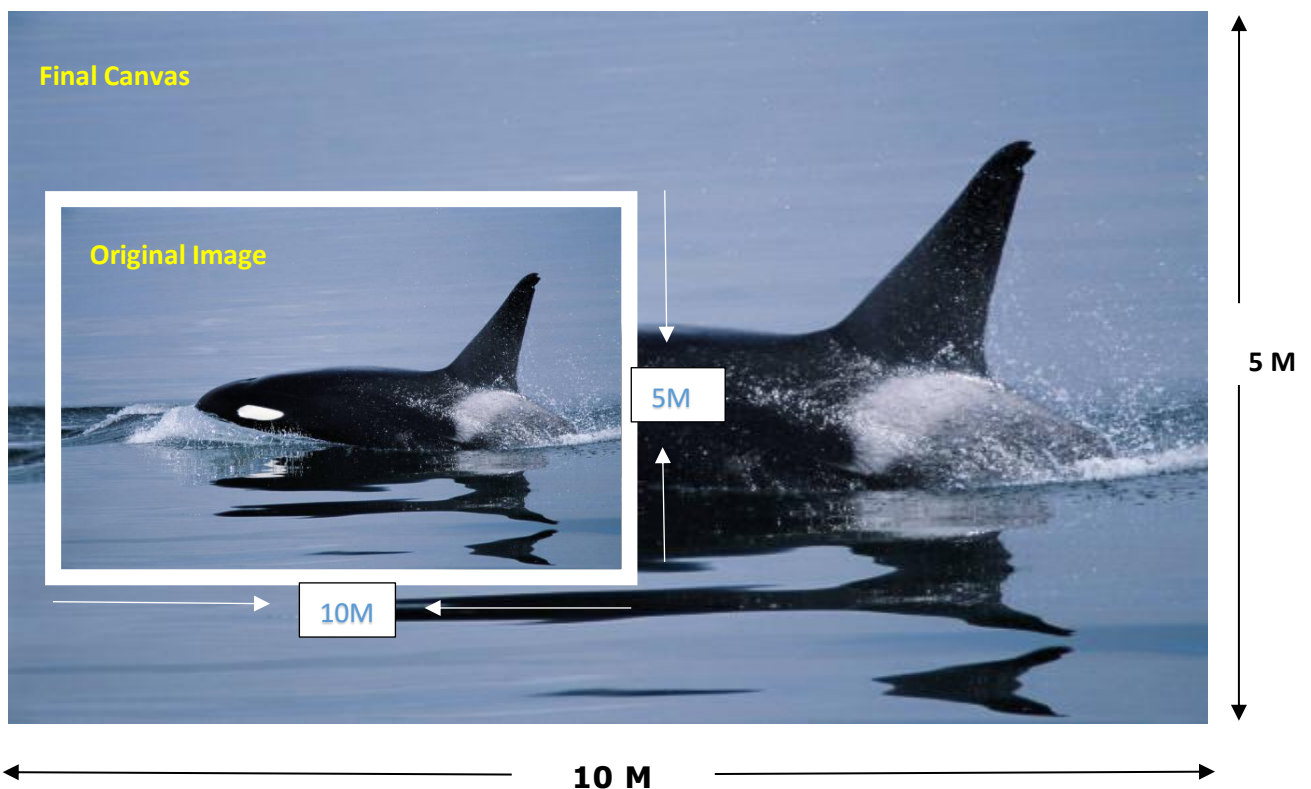
In installations where the image spans multiple panels, sheets can be custom manufactured to any size; however they usually don't exceed 2900 x 1400. Webforge Locker can produce larger sheets, however it is recommend you discuss your project with Webforge Locker architectural consultant in order to achieve the best results.

## ASPECT RATIO

The aspect ratio (the ratio of length to width) of the image must be in proportion with the final screen (or installation) canvas area. A change in aspect ratio may mean the image has to be stretched or cropped, altering the final appearance.

In extreme cases, the image may not be suitable for the final installation.

## Image



## COSTING PIC PERF®

The cost of Pic-Perf® is based on a combination of image detail and the size of the final screen canvas. Material choices also have a bearing on the final price.

The level of detail in the image and size of the final screen canvas dictates the size and volume of holes used to create it. A smaller screen canvas, generally viewed from close range will typically use smaller holes and more of them to create an image. As the screen canvas area becomes larger, both horizontally and longitudinally (must become larger in both directions), so do the holes and the hole centers.

Therefore, creating an image on a smaller screen canvas will be more expensive per M<sup>2</sup> than creating the same image on a large canvas.

Images spanning a number of panels, e.g. a building facade are more economical per M<sup>2</sup> than a small single panel image.

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**BOLT HOLES**

Webforge Locker can incorporate bolt holes during manufacture, ensuring panels are ready for installation. When bolt holes are incorporated into the design they become integral with the image. They also prevent having to use various size washers to accommodate the frequently changing perforation sizes or any unnecessary onsite drilling of the finished product which may compromise the coating.

Bolt holes should be discussed with your Webforge Locker architectural consultant before any support structure is erected to ensure the vertical and/or horizontal supports are adequately spaced and sized to suit bolt hole positions. Generally only minor alterations may be required.

**FIXINGS - (Isolator, Spacers and Fasteners)**

Webforge Locker's L11.1 simple to use, Perf Isolator can be used to eliminate any potential corrosion between different metals. It will also provide room for thermal expansion around the bolt holes. Upon request spacers and powder coated fasteners can also be supplied to suit the isolators. Isolators are designed to suit an M6 screw or bolt. The spacers aid in setting the panels off the support structure assisting the structure behind to fade into the background.

**DRAWINGS/PROOFS**

Prior to the production of a Pic-Perf® panel(s), Webforge Locker will provide a proof. All care is taken to ensure this proof is as accurate as possible in representing the final image, indicating the effect of different perforated patterns and varying image definition. Although the representation will be accurate, environmental conditions and the colour scheme can be critical contributors to the final appearance of the perforated Pic-Perf® screens. Apart from a representation of the perforated graphic, proofs also include panel sizes, dimensioned panel splits, panel orientation, dimensions of gaps at intersections, perimeter borders, a grid for panel identification, end elevation or cross section, if any folding or curving is involved and bolt hole sizes and centres, where appropriate.

Customer approval of the final proof is required prior to production commencing.

**INSTALLATION**

Webforge Locker is happy to provide details of installation companies for your consideration. In installations where the screen canvas area is made up of multiple panels, Webforge Locker will provide a proof detailing the artwork together with a grid layout, identifying the position of each panel. All panels will be branded with corresponding ID numbers for fast, simple identification of panel positions.

Once the client provides final dimensions of the support frame, preferably in Auto Cad DWG files, Webforge Locker will super impose the screens and bolt holes over the supports and design them so they can be easily and accurately fitted on site. Webforge Locker will also recommend gap dimensions at the intersections of panels. It is recommended that the suggested support centres are provided to Webforge Locker prior to erecting them on site and prior to production of the panels. To ensure the positioning and face size is suitable for the available screen sizes and bolt hole positions. Webforge Locker may need to adjust the support size or centres to suit.

Installation requirements are important, as panels can be provided without borders, in order to achieve a continuous image across several sheets. Please discuss the project requirement with your architectural consultant in order to maximize the result.

**INFORMATION REQUIRED FOR BUDGET PRICING:**

- Proposed image (electronically if possible), File format in order of preference - Adobe Photo Shop, Jpeg, Tiff, Bitmap or PDF. Most file formats except Post Script can be used. If not please advise type of image .e.g. picture, abstract, text.
- support frame drawings (if available)
- screen canvas size for each image (Length and Width)
- Type of material
- Type of finish or coating
- Project name / specifications

**Contact your local Architectural Consultant for any other queries.**