PRODUCT

IMAGINEERS

BRANDING IDEAS THAT INSPIRE!

WWW.PRODUCTIMAGINEERS.COM

LARGE FORMAT PRINTING

KEVIN@PRODUCTIMAGINEERS.COM • PRODUCTIMAGINEERS.COM • 216-374-7795

BIG
FORMAT
BIG
COLOR

PRODUCT
IMAGINEERS

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PI is a premiere large format digital print shop. We have the capabilities to handle any large and grand format print job you may need. Whether you are looking for large quantity orders, or need a graphic that is too large for your in-house printers, PI has the capabilities.

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VINYL BANNERS

13oz vinyl banners are produced using a sturdy single-sided matte material, and provide an ideal choice for conveying a message and making an impact.

Max Width: 196"

18oz banners are made from a heavy-duty double or single-sided matte material with a blockout liner for complete opacity: a perfect option for free hanging banners.

Max Width: 126"

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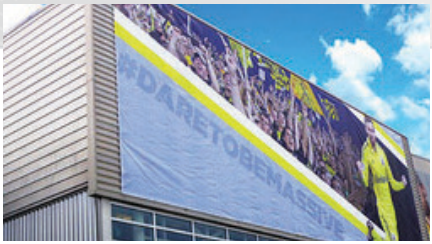
MESH



Constructed from a 9 oz. polyester mesh, our mesh banners are both lightweight and versatile, great for businesses, schools and more.

Max Width: *196″*

Custom Sizing

please inquire

SOFT KNIT FABRIC

Searching for a different look for your signage? Our soft knit, wrinkle-resistant, 100% polyester fabric banners will make your artwork stand out.

Max Width: *126″*

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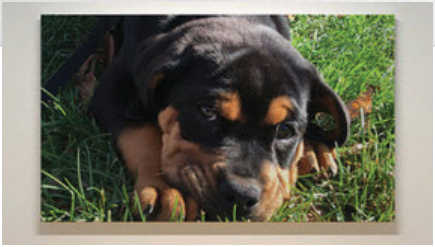
CANVAS

From photography to marketing, canvas creates a unique texture while maintaining incredible print quality.

Max Width: *54″*



PAPER

Create stunning displays using our 12 point cardstock posters: the ideal, economic solution for temporary indoor signage and presentations.

Max Width: *54″*

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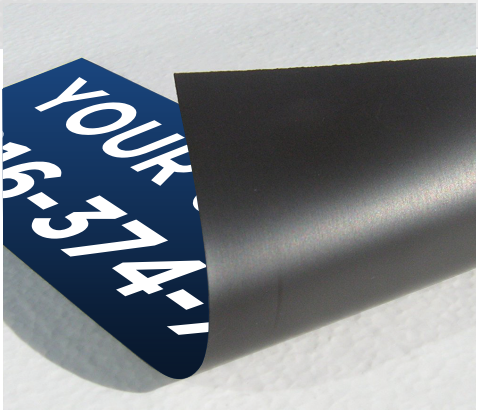
.030 MAGNETIC

Custom magnets are durable and long lasting, and a perfect solution for removable advertising and promotion.

Max Size: *24"x96"*



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COROPLAST

Excellent for announcements, directional signs, or even yard sales, our 4 mil coroplast signs are a lightweight, versatile and economic choice.

Sheet Size: *4′x8′*

FOAMCORE

Foamcore is ideal for most indoor signage, made with a 3/16″ paper-faced biodegradable foam board.

Sheet Size: *4′x8′*

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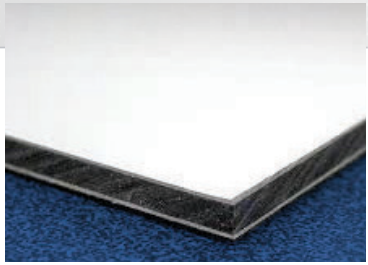
ALUMINUM



Made with pre-painted sheets of .012" aluminum and a solid polyethylene core, aluminum signs are weather resistant and great for a variety of signage applications.

Sheet Size: *4'x8'*

CLEAR ACRYLIC

Our clear .25" acrylic can be directly printed on the front or back, and is perfect for creating signage with a high-end look.

Sheet Size: *4'x8'*

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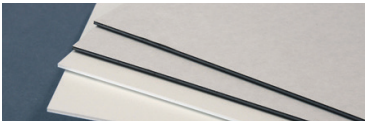
STYRENE

Styrene is available in three different thicknesses and is very flexible, making it great for curved displays.

Sheet Size: *4'x8'*



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STYRENE MATERIAL THICKNESS		
020	040	060

PVC

Our premium PVC sheet is both lightweight and durable, fabricated from plastic compounds for a smooth and even surface. These signs are excellent for interior or exterior use in tradeshow exhibits and other longer term displays.

Sheet Size: *4'x8'*

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WINDOW PERF

Make an impact using custom perforated window film, ideal for storefronts or office windows. This 6 mil vinyl appears opaque from the outside, while allowing for visibility on the inside.

Max Width: 54"

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STATIC CLING

Custom static cling window posters are an incredible way to enhance your business and increase communication. Our 7.5 mil vinyl uses no adhesive, yet holds firmly in place for easy removal and reapplication on the inside or outside of the glass. Available in clear or white.

Max Width: *54"*

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ADHESIVE TRANSLUCENT

Backlit self-adhesive vinyl creates stunning visual impact using the power of light. This 3.4 mil translucent vinyl is long-lasting, with a 5-year durability, but also incredibly easy to remove.

Max Width: *54"*

Double-struck

Lamination: Gloss or Matte

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BACKLIT FILM

Our 8 mil backlit film is designed for creating striking displays, made with an ultra matte finish for spectacular image performance

Max Width: *54"*

Double-struck

FLEXFACE

Flexface is a matte 15 oz. high-end substrate, excellent for eye-catching outdoor signs and billboards. Printed on both sides for day-night viewing.

Max Width: *196"*

3M IJ35 VINYL

Want to help your business stand out? Vinyl wall graphics are a great tool for marketing and communication. 3M IJ35 is a long lasting 3.2 mil film with a permanent adhesive, ideal for designing store interiors or windows. Also used for barricade graphics.

Max Width: *54"*

Orders over 54" will be tiled.

Lamination: Gloss or Matte

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FLOOR GRAPHICS

Give your business a professional look with our skid-proof floor graphics, using a 3 mil film with a 5 mil floor graphic laminate.

Max Width: *54"*

REPOSITIONABLE WALL

Made with Photo Tex, a durable self-adhesive fabric, these wall graphics attach and detach with ease.

Max Width: *54"*

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3M IJ180 VEHICLE

Get your message out on the streets with an eye-catching 3M IJ180 vehicle wrap. This opaque 2 mil film is pressure activated, making installion easy.

Max Width: *54"*

Lamination: Gloss or Matte

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TEXTURED WALL

Bring a bland and uninteresting building surface back to life with bold, high quality graphics. This 3.5 mil satin white film was specially designed for hard-to-stick surfaces such as brick, concrete, and stucco.

Max Width: *54"*

Lamination: Gloss or Matte

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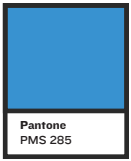
Print-Ready File Formats

The following is a list of common file formats we accept, though .pdf is the preferred format:

- **Raster:** .psd, .jpg, .tif & .pdf
- **Vector:** .ai, .indd, .eps & .pdf

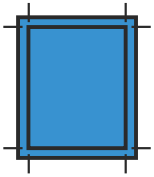
Turn Overprint off when preparing your file (varies by application).

PMS



If a PMS number is provided, most colors can be represented fairly closely. However, certain colors are impossible to represent exactly; some PMS colors are out of gamut for digital CMYK printing.

Bleed

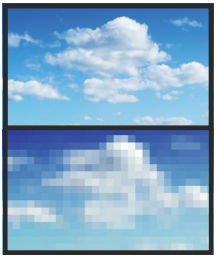


In order to ensure ink coverage is edge to edge on your print, we ask that you send your files with bleed. For instance, if a 24" x 36" banner needs 1" of bleed, your file would be 26" x 38".

Resolution

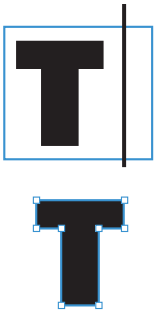
- **BILLBOARD RESOLUTION**
  Raster files should be 50ppi at full size
- **ANY OTHER PRINT**
  Raster files should be 72ppi – 200ppi at full size

PPI = Pixels per inch - the number of pixels per inch in screen/scanner file terms



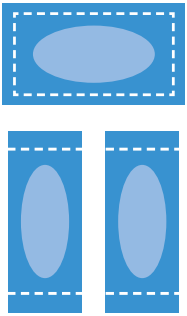
Outline Fonts

When you add text to your file it is important that you "Outline" the text (sometimes called "Convert to Path") before you send it to be printed. If the text isn't outlined, font substitution may occur when we open the file. Sending fonts with your files is acceptable, but not ideal; there are many variations of a single font, and unless the font is exactly the same font in the document, we may not be able to apply the font correctly.



Pockets, Hems & Welds

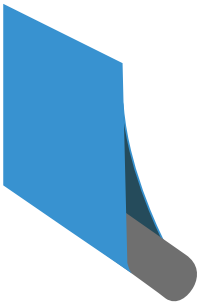
Extra material at the edge of the print is turned over and stitched or welded depending on the specifications of the project. It is important that nothing crucial (like text and logos) falls in the pocket area. Think of pockets like “margins.”



What is a Pocket?

A pocket is an over-sized hem. It provides an opening to slide a pole through for a variety of applications.

Outer Diameter of Pole	Pocket Opening
Up to 0.75″	2″
Up to 1.25″	3″
Up to 1.75″	4″
Up to 2.75″	5.5″
Up to 3.75″	7″

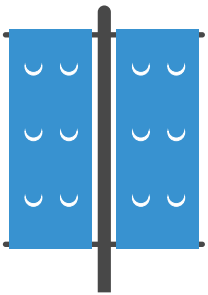


Cut Paths

If your project is cut to shape, we ask that you supply us with a cut path. A cut path is a vector shape that allows our cutter to read and match up with registration marks. A simple one pixel stroke on the shape is needed, and preferably placed on a separate layer named “Cut Path.”

Windslits

Windslits allow air to pass through the banner, preventing damage to the banner. As many or as few windslits as desired can be added, but is recommended that windslits are spaced around 10″ apart from each other and at least 4″ from the edge of the banner. When building your file, we need the windslits to be a 4″w x 2″h half circle with a 1px stroke on a seperate layer.

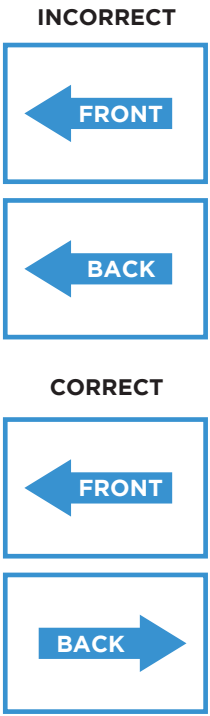


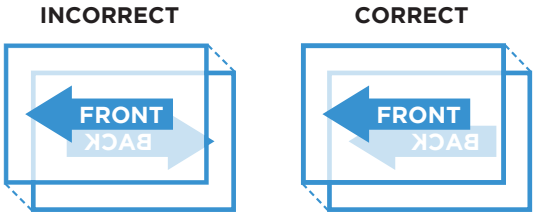
Double Sided Signs

A double sided sign with a directional arrow requires a different image to be provided for both sides.

When arrows face the same direction on the frontside file and the backside file (or the same image on both sides), then when they are printed together double sided, the arrows will be pointing in opposite directions.

However, when arrows face in opposite directions on the frontside file and the backside file, then when they are printed together double sided, the arrows will both be pointing the correct direction.





First & Second Surface Decals

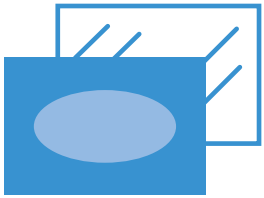
First Surface refers to the front, exterior viewing surface of a substrate. This can be anything from a glass window in a storefront to clear Polycarb for a backlit sign. The printer produces your graphic right reading directly on the first surface of your substrate, or on the vinyl to be applied to the substrate; when viewed from outside, the print is seen directly rather than through the substrate.

There may be differences in how first surface is used depending on the product you have chosen and the application of the product.

Second Surface refers to the interior surface of a substrate. Artwork with second surface application will be reverse-printed, or mirrored, so that it can be viewed correctly from the outside, through the substrate, once installed.

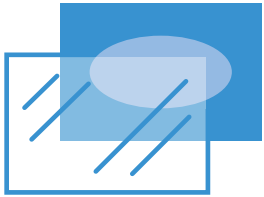
Products that utilize second surface application have the benefit of the clear substrate protecting the image from fading, chemicals and/or abrasion.

FIRST SURFACE



Adhesive on back side of print.

SECOND SURFACE



Adhesive on front side of print.

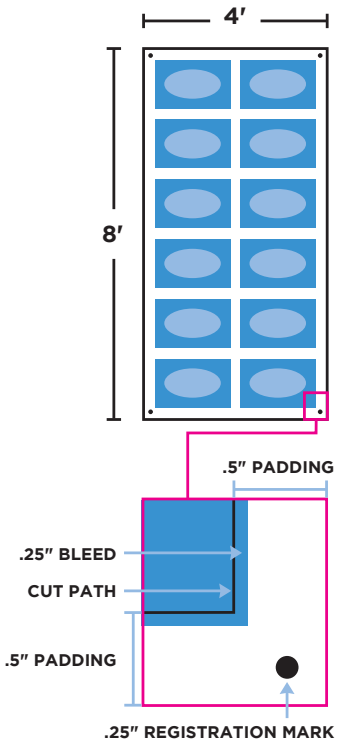
File Setup and Material Size

Our cutting systems cut out a printed product precisely using registration marks that are printed on the material along with the art, which then match up to a cut file in our cutting software.

These registration marks are detected by a camera and used to triangulate the coordinates of a cut path in the cut file. To allow room for these marks to be printed along with the art, there must be a border of free space around the art.

This border, or padding, reduces the amount of available print space on the material when a cut path is required. The default size from the edge of the cut path to the edge of the material is .5″.

However, if a cut path is not required, we are able to print full sheets edge-to-edge.



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