



It begins  
with a  
sheet of glass.

Where the story goes is up to you.



alice™  
Direct to glass printing

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Brought to you by GGI, your creative partner.

CONVERSION CHART			
Inch Fraction	Inch Decimal	Millimeters	Points
1/16	.0625	1.5875	4.5169
1/8	.0125	3.175	9.0338
3/16	.1875	4.7625	13.5506
1/4	.25	6.35	18.0675
3/8	.375	9.525	27.1013
1/2	.5	12.7	36.135
5/8	.625	15.8750	45.1688
3/4	.75	19.05	54.2024
7/8	.875	22.225	63.2363
1	1.0	25.4	72.27

DIGITAL FORMATS
.pdf (Portable Document Format)
.tiff/tif (Tagged Image File Format)
.jpeg/jpg (Joint Photographic Experts Group)
.bmp (Bitmap)
.eps (Encapsulated PostScript)
.ps (PostScript)

# Introducing Alice.

A whole new adventure in glass.



*exterior*  
**Harlem Hospital** > New York, NY  
 Architect: HOK in association with Jack Travis FAIA Architect

Now, you can get whatever you envision printed directly on glass. Permanently. Cost-effectively. With digital accuracy. Whether you imagine photos, half-tones, line art, screens, or multi-colored images on a window, curtain wall, or partition, Alice™ direct-to-glass printing technology makes your design dreams come true.

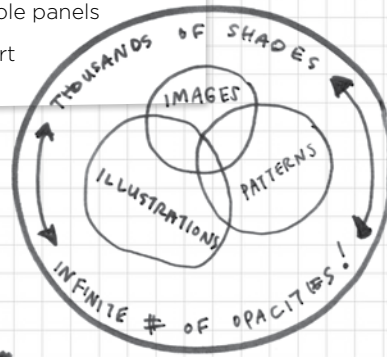
General Glass International, your creative partner, makes it possible.



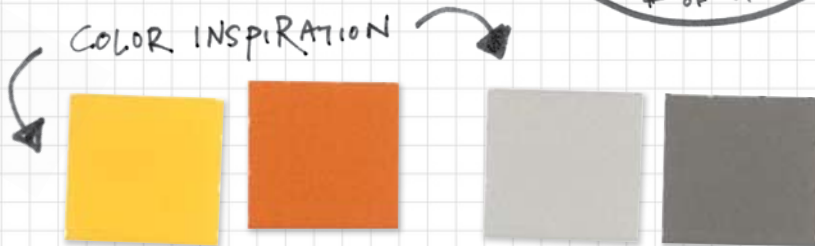
# Bringing glass to life and life to glass.

From the subtle shades of a sunlit sky to the bold colors of pop art, from the crisp details of photography to the instant impact of graphics, Alice can print almost anything on glass.

- etch <-----> full color
- sepia tone <-----> full spectrum
- one-off <-----> complete roll-out
- realistic <-----> stylistic
- single surface <-----> multiple panels
- logos <-----> fine art



COLOR INSPIRATION





ALICE,  
HARD@  
WORK

## So many things you can do. Go ahead... let your imagination run.

### The CAPABILITIES

- Customize any design for almost any application
- Print on glass in a wide range of sizes and thicknesses
- Create panels with consecutive designs

### The EFFECTS

- Thousands of shades and an infinite number of opacities
- Acid etching, which achieves a sandblasted look without fingerprints, dirt, or smudges
- Color and etch gradients and fades
- Double Vision, which makes a different image visible from each side of the glass
- Variable data such as serial numbers, dates, or other information that changes between jobs or iterations

### The DURABILITY

- Permanent
- Extremely weather resistant, for interior or exterior applications
- As easy to clean as regular glass
- 10-year warranty

### The QUALITY

- Digital accuracy ensures realistic reproduction of artwork
- Edge-to-edge printing
- Highly trained and service-oriented staff

### The SPEED

- Concept to complete in as little as a few days

### The COST

- Equal to or less expensive than silkscreening, film, or interlayers, even with custom artwork and one-off designs
- No screens to create or store

# Show us your sketches.

With Alice, every sheet of glass becomes a blank slate. Express your ideas, scribbles, inspirations, brand messages, patterns, and more. Whatever you've got in mind or on the page, we can put it on glass.

## Images



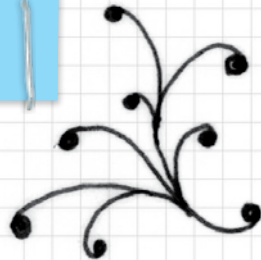
- Black and white
- Multi-color
- Family portraits to scenic landscapes



## Patterns



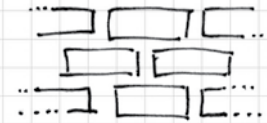
- Dots
- Shapes
- Lines
- Ornate
- Floral
- Organic



## Textures



- Natural: woodgrain, water, sand
- Industrial: brick, concrete, rough



## Type



- Text
- Poems
- Quotes
- Headlines



## Logos

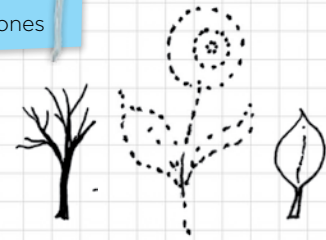


- Branded exteriors
- Branded interiors
- Brand patterns

## Nature



- Forests, trees, leaves
- Landscapes
- Lush and tropical zones

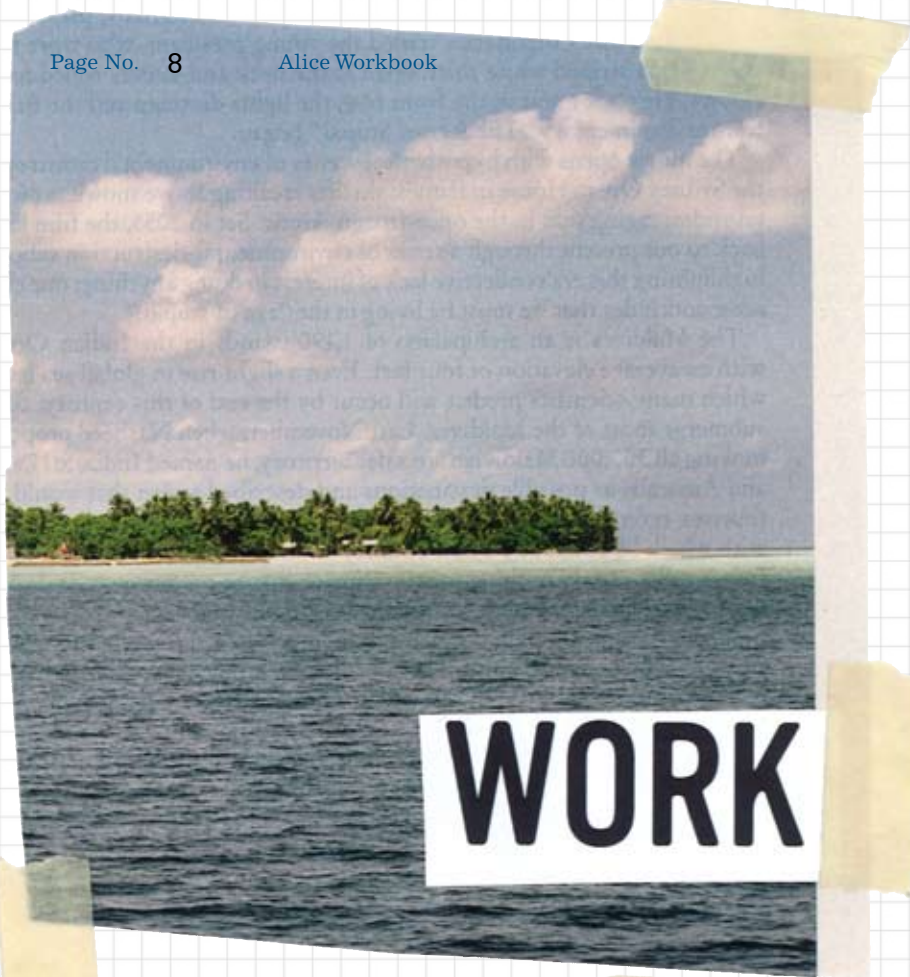


## Art



- Paintings
- Photographs
- Illustrations
- Murals
- Graffiti
- Blueprints





Share your inspiration.

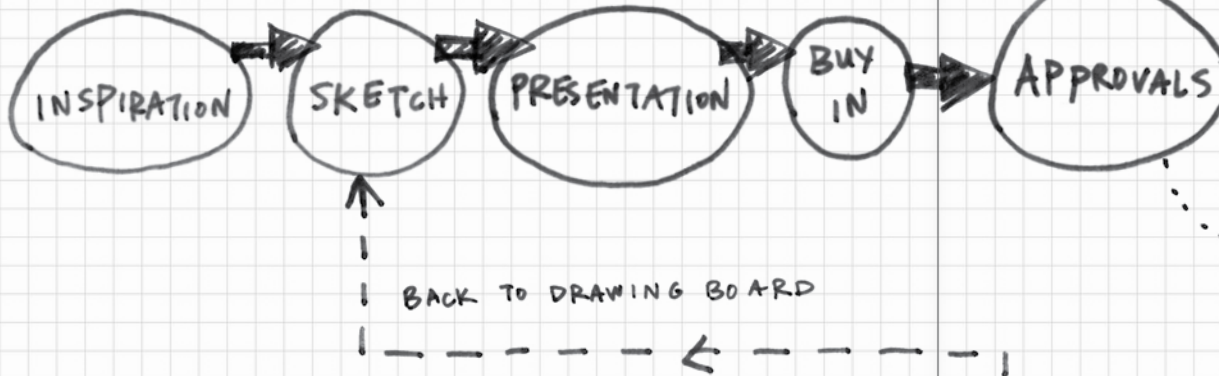


Wherever you go, there you are.

45 19 32 38 31 24

# Alice makes it fast and easy.

How **YOU** probably work now:



- ▶ **A. TRY SILKSCREENING**  
→ TOO MANY LIMITATIONS

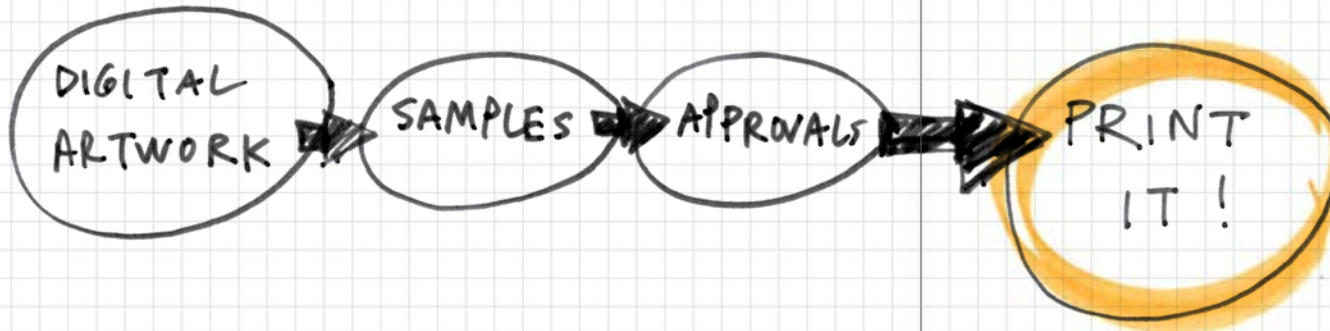
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- ▶ **B. TRY FILM**  
→ NOT DURABLE ENOUGH

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- ▶ **C. TRY INTERLAYERS**  
→ TOO EXPENSIVE

How **WE** will work with **YOU**:



# Nuts and bolts.

(And a whole lot of technology.)

## The PRINTER

Digital, direct-to-glass ink-jet printing technology. No silkscreens or rollers.

## The INK

Ceramic frit, finely ground glass mixed with pigment, is heat-fused to the surface with a tempering process that ensures permanence, scratch-resistance, and no fades.

## The COLORS

Standard colors are mixed and matched in varying opacities to produce an extensive array of custom colors, including etch and white. Multiple colors printed in a single pass.

## The SIZES

From 3" X 12" to 84" X 144." Even larger patterns and images can be pieced together to create dramatic effects.

## The RUNS

From a single sheet to as many as your project requires.

## The TURNAROUND

Just a few days to 2 weeks, depending on quantity and size.

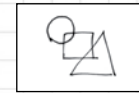
## The DESIGNS

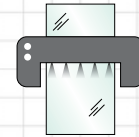
Unlimited.

## The EFFECT

WOW!

## ALICE DIRECT-TO-GLASS PRINTING TECHNOLOGY

 1. Artwork

 2. Image Processing

 3. Direct-to-Glass Printing

 4. Drying

 5. Tempering

 6. Delivery


# The results.

Digital direct-to-glass around the world.

## Portfolio > Exteriors and Interiors



*interior*  
**Wall Street Mall > Dunedin, New Zealand**



*exterior*  
**Cristec Vipla SI Project > Murcia, Spain**



*exterior*  
**Porte des Lilas > Paris, France**



*interior*  
**Metro Project**



*exterior*  
**City Theatre > Haarlem, Netherlands**



## APPENDIX

# Alice Specifications

<b>Print resolution</b>	Up to 360 dpi
<b>Ink type</b>	Ceramic enamel frit
<b>Ink colors</b>	Black, white, etch and various colors
<b>Maximum glass size</b>	84" by 144"
<b>Minimum glass size</b>	3" x 12"
<b>Glass thickness</b>	5/32" to 3/4"
<b>Glass type</b>	Clear or tinted, tempered or laminated, heat strengthened, low-E, insulated
<b>Printing speed</b>	Up to 100 sq yards/hour
<b>Equipment</b>	Flat bed digital printing unit
<b>Opacity control</b>	Ink can be printed in different thicknesses on a single job
<b>Drying</b>	Infrared drying
<b>Films and screens</b>	None required
<b>Special techniques</b>	Double Vision lets you see different images on each side of the glass; Variable Data lets you print information that changes from job to job, such as serial numbers, sequencing, or dates.
<b>Image format</b>	All standard graphic formats including PDF, PS, EPS, TIFF, BMP and JPEG



exterior  
University > Darmstadt, Germany



Tell your story with glass.



**To find out more about how Alice can help you tell your story with glass, visit us at [alice-d2g.com](http://alice-d2g.com), or email or call Alice directly at [alice@generalglass.com](mailto:alice@generalglass.com) or 800.431.2042, ext. 115.**

General Glass International has been serving the architectural, design, and glazing contracting communities for more than 100 years with a wide array of fine glass products from picture glass to curtain walls, decorative glass to fire-rated glass, and all kinds of glass in between.

**GGI**

[generalglass.com](http://generalglass.com)