

EnVisionTM

Digitally Printed Safety Glass

solos  glass
see the possibilities

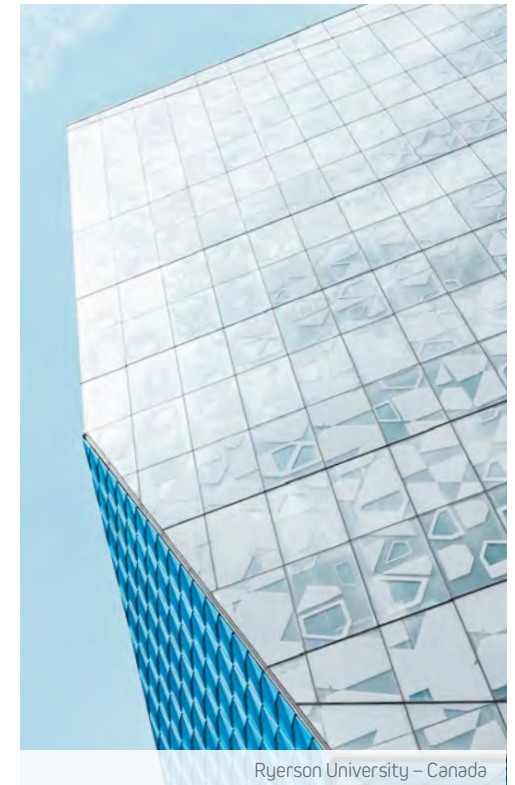
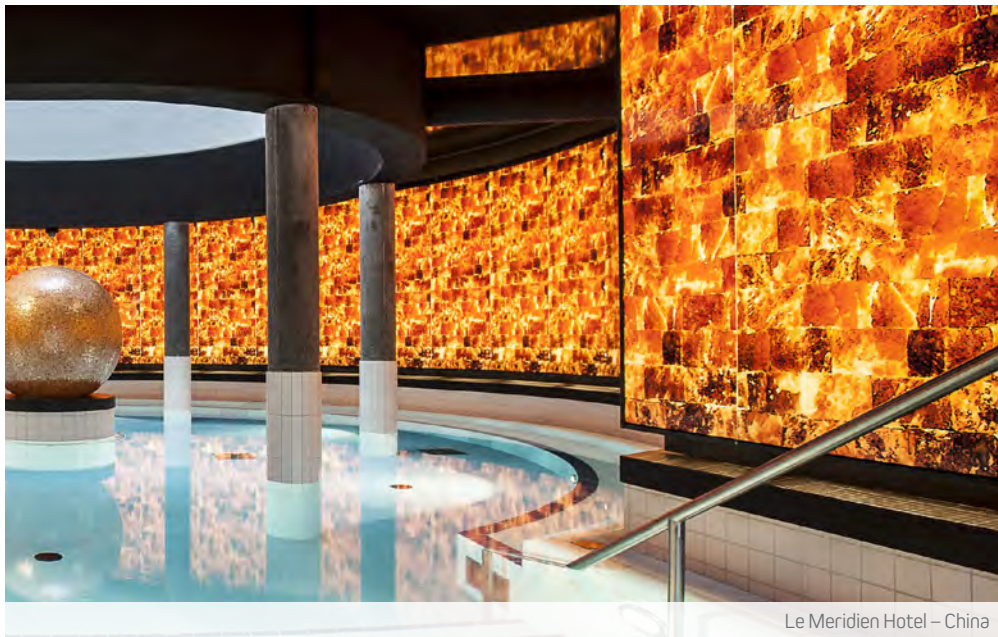
EnVision™ Digitally Printed Safety Glass

Imprint Your Vision

Manufactured using the highest quality ceramic inks and photorealistic 1410dpi image resolution, EnVision™ is a digitally printed safety glass which helps transform and translate any design concept or image into architectural reality.

Available as single toughened glass, a custom laminate or as part of an IGU, EnVision™ is suitable for a broad range of internal or external applications in both residential and commercial buildings; from splashbacks and shower screens through to building facades and curtain walls.

Through EnVision™, glass can now be seen as the new architectural canvas; the platform on which the ultimate visual impact can be created and inspiration communicated. There are endless design possibilities with no need to compromise creativity in order to meet legislative requirements.



The Product

One of the key characteristics of EnVision™ is the role it plays in not only providing unlimited design potential, but also the flexibility it provides to the design process.

Printed on any standard glass thickness between 4mm and 19mm and capable of being manufactured in large individual panel sizes of up to 6m x 3.3m, any image or design can also be easily scaled up across multiple panels to create a visually stunning graphic across a complete building facade or bespoke interior walls.

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Concept to manufacture



1 – Design Concept & Illustration

Graphic files (PDF, PS, EPS, Tiff, BMP, JPEG, etc.) created through the design process are provided to us and fed into the DXP 3 glass design and graphics platform.



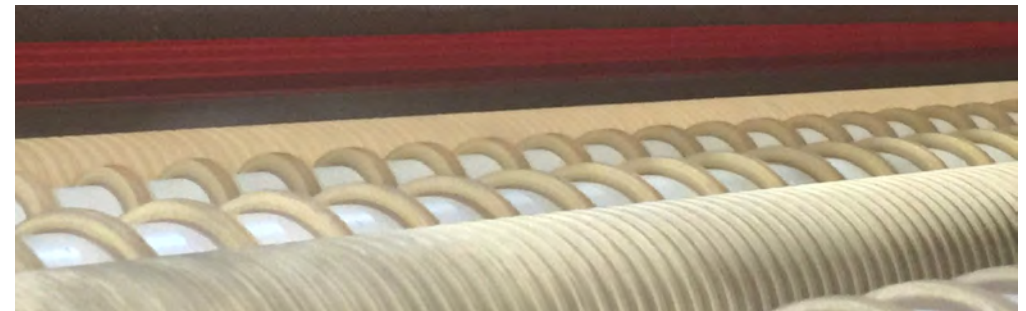
2 – Graphics Conversion

The heartbeat of the EnVision™ manufacturing process, with a range of specialist features the DXP 3 software automatically turns the respective graphic file into a ready to print image.



3 – Glass Preparation & Digital Printing

The glass is selected from stock and transferred onto the cutting table where it is cut prior to being automatically washed and positioned on the Dip-Tech™ NERA D digital printer. Here the design is printed on the glass surface and automatically dried prior to being transferred into the toughening furnace via the fully integrated conveying system.



4 – Further Processing

Toughening the printed glass permanently fuses the image/design into the glass surface. If required, the printed glass is then either incorporated into an IGU or custom laminated to suit the application prior to being packed and subsequently distributed.

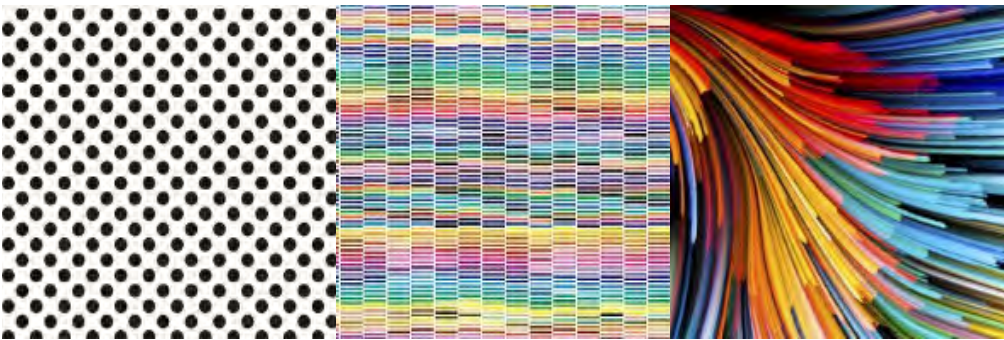
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Ceramic inks

EnVision™ is manufactured using only the highest quality ceramic inks, with each type of ink used performing a range of different functions across any design from standard dots and lines, through multicolour patterns to photorealistic images.

All EnVision™ inks are supplied by Dip-Tech™/Ferro™ and do not contain lead or cadmium:

- The Spectrum series of 6 high performance core colours are used to create the extensive range of shades and colours
- The Light Diffusion series enables effective privacy and light control to be achieved through different etch effects
- The Precious Metal series provides extra shine and reflectivity for the perfect metallic effect
- The S1 series is applied to the external surface of the glass, offering extreme resistance to weather and chemicals, as well as providing additional glare and reflection control.



Single colour dots & lines Multicolour patterns Photo-realistic images

Applied to the glass surface through precise micro-dot printing using the latest digital printing technology, ceramic ink becomes fused to the glass itself during our carefully controlled toughening process. This forms a permanent, durable surface which is highly resistant to UV, scratching and even acid attack and also ensures that each piece of EnVision™ meets the Grade A safety glass requirements of AS 2208.

With the key resistance criteria of the ceramic inks also measured, tested and certified against some of the World's leading industry standards, the performance of EnVision™ is further supported and recognised.

Test Type	Industry Standard
Weathering Resistance	ISO-11341 (ISO-16474)
Acid Resistance	ASTM C 724-91, ASTM 777-04
Alcohol Resistance	UNE-EN 15200
Scratch Resistance	AS 3894.4, EN 438-2, ISO 4586-2
Stain Resistance	UNE-EN 15200

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Create Innovative Design Solutions

EnVision™ is the perfect glazed solution for offering high resolution imagery and clarity, which also offers stunning functional effects and levels of performance across a number of applications. The only limit is your imagination.

Facades & Curtain Walls

Through EnVision™, spectacular and unique building facades can be created. Unique, energy efficient and visually stunning, a custom designed facade or curtain wall using EnVision™ blends vibrant colours with an improved ability to create durable, iconic designs whilst being able to further control the levels of VLT, SHGC and U Value.



AFI Mall – Russia



New Town Hall – Spain



Green City – Minsk



Origami Building – France

Partitions & Room Dividers

Whether you choose from the range of EnVision™ Vector Patterns or Natural Elements, enhancing a standard clear or translucent laminated glass creates a stunning addition to either the working environment or an individual statement within a home. EnVision™ can be central to maintaining a spacious feel, offering levels of privacy whilst opening up the room or working space to extra light.



Irving Public Library – Texas



Übersee Museum – Germany



Médéric Building – France

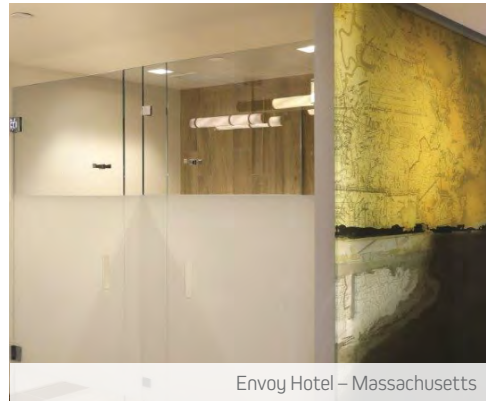
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Shower Screens

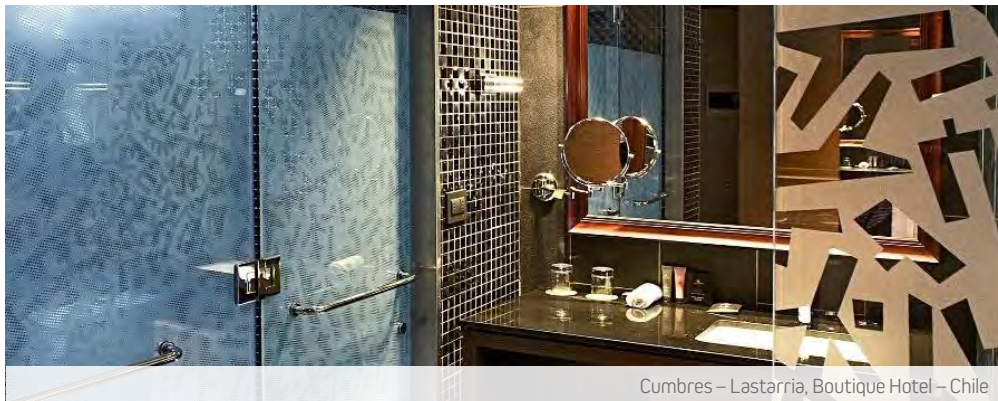
Providing a subtle level of privacy or a bold statement in style is something that the environment of a bathroom often requires to transform its look or add a level of comfort to what is essentially, a personal space. Using an individual design or one of the standard designs offered through either the EnVision™ Vector Patterns or Natural Elements range provides an easy to clean and individual visual statement.



'Telephone Booth' Shower – USA



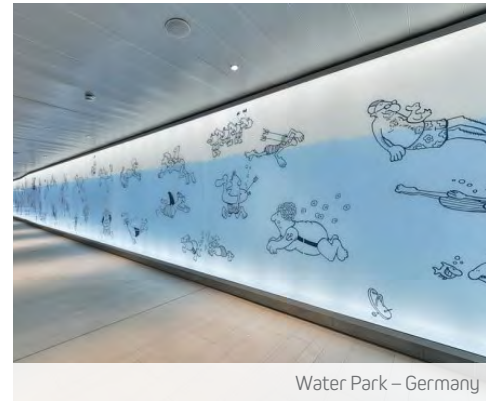
Envoy Hotel – Massachusetts



Cumbres – Lastarria, Boutique Hotel – Chile

Walkways

Airports, hospitals, hotels, educational facilities, railway stations and bus interchanges are but a few examples of where printed glazed walkways offer significant design and/or communication opportunities.



Water Park – Germany



Carrefour Laval – Quebec



Kansas University – USA



O'Hare International Airport – USA

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Roofing

EnVision™ brings a whole new dimension to the term 'letting in more light' through a roof or ceiling. Providing incredible design opportunities without compromising on the required integrity and loading requirements demanded by such elements, EnVision™ will enthral as well as captivate, fascinate as well as delight. It opens up and brings new life to a part of a building often seen more from a perspective of pure functionality rather than its design and light providing potential.



Children's World Toy Store – Russia



Hanjie Wanda Plaza – China



Jewellery Trade Centre – China

Memorials and Signage

Commemorating a special event, remembering loved ones, celebrating culture or publicly showcasing artistic vision can all be beautifully presented with EnVision™. Vibrant colours, different effects and outstanding durability all combine to both preserve the past and shape the future.



WWII Memorial – USA



Sarasota Memorial – USA



Battle of Cemetery Hill Mural – USA



Siesta Key Beach Pavilion – USA

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Splashbacks

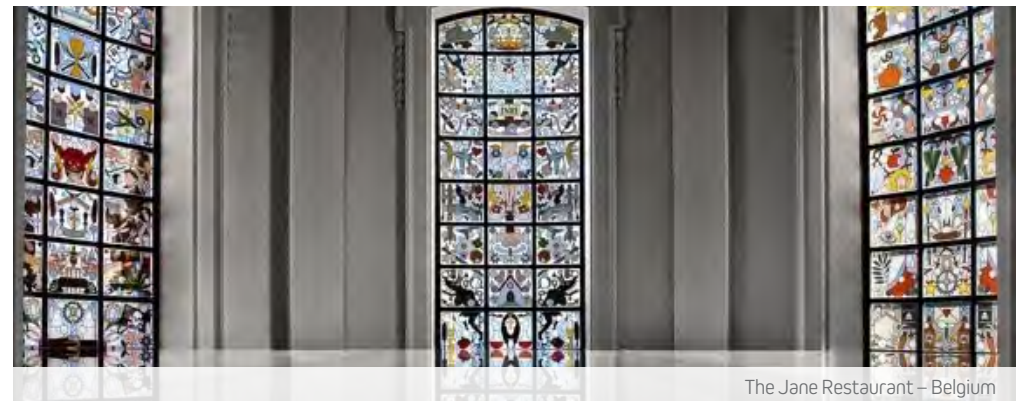
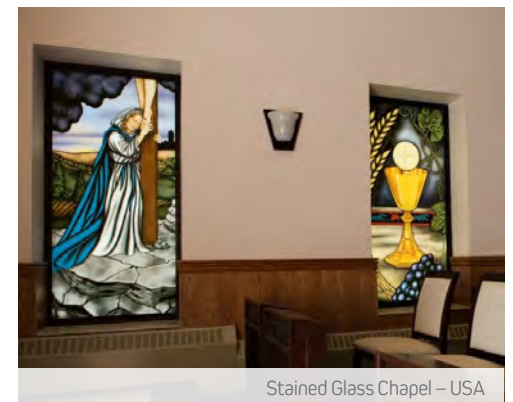
An EnVision™ splashback provides that personal touch and a perfect combination of stunning design, ease of cleaning and long-lasting durability.

Whether it's a design from the EnVision™ Natural Elements range where the look of stone or wood brings the outside world in to your kitchen or an individual design, photorealistic art installation or mood-setting scene, EnVision™ is a practical, functional and safe solution.



Stained Glass Windows

Creating or replacing stained glass windows or doors is a specialist craft and potentially an expensive exercise. Ideally suited to refurb projects, EnVision™ can match existing window designs or perfectly reproduce any bespoke design. EnVision™ offers a pragmatic, durable and superbly detailed alternative way of presenting stained glass images, which in no way compromises the atmosphere or enduring images of celebration that traditional stained glass windows represent.

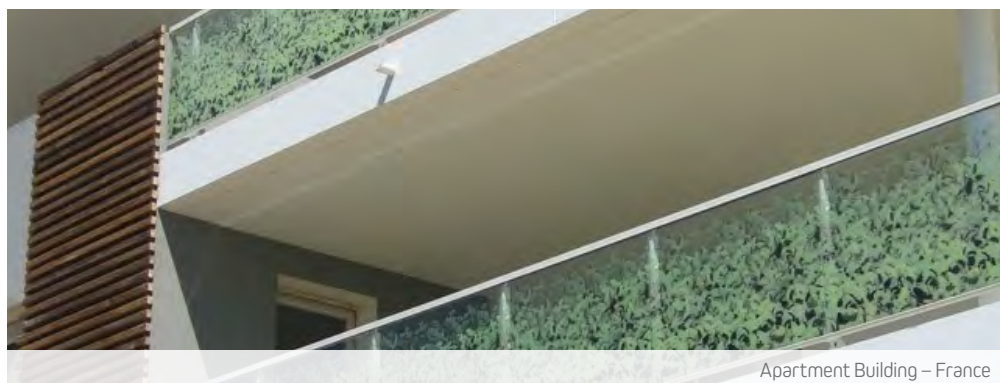


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Balustrades

Balustrades also offer excellent opportunities to showcase printed glass which can in turn provide design, style and aesthetic innovation.

With no compromise on safety to achieve the desired look, balustrades are the perfect canvas to express that personal touch or that link with the immediate environment, both internally and externally. Ensuring privacy without blocking light, blending in with nature, opening up the external view, enhancing the inner sanctuary or just maintaining that spacious feel with a new look are all core benefits of EnVision™.



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Colour matching

When specifying colours, colour libraries such as Pantone, Dulux and RAL should be referred to as a guide only. EnVision™ uses the Dip-Tech™ Spectrum R Ceramic Ink Series for all applications.

The Spectrum R Ceramic Ink Series uses a unique 6-spot colour mode (blue, green, white, orange, red and black - BGWORK) to achieve a full range of colours. Please note, the BGWORK colour mode differs from the traditional 4-spot CMYK colour mode.

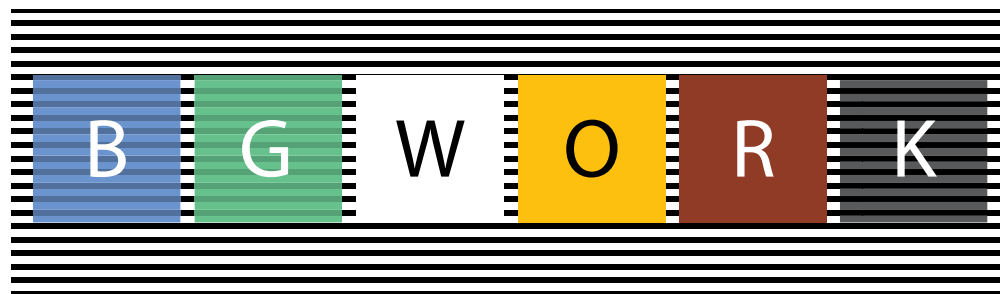
The Spectrum R Ceramic Ink Series are lead and cadmium free, therefore we are unable to produce magenta, bright pinks and rich purples.



Important note: Due to variances in pigments, paper, digital screens and glass appearance e.g. tones & thickness there may be some differences between the selected colours and the final appearance on glass. It is highly recommended to request a sample for colour verification against your artwork.

Ink transparency

The Spectrum R Ceramic Ink's all display differing levels of transparency. The Blue and Green inks have additional transparency, which can be mixed with other inks to achieve less transparent Blues and Greens. Please consult our in-house design team for further advice and clarification on ink transparency.



Viewing conditions

There are some variables that may affect the actual appearance printed on the glass, such as light, angles, viewing side and distances, glass type and thickness.

The viewing distance influences the appearance of the artwork. It is highly recommended that if an artwork is to be viewed in close proximities that it is printed at the highest possible resolution.

Text

Text requirements should be created through Adobe Illustrator or a similar vector based program to maintain the integrity of the text without compromising your design.

Font size for text on clear glass must be no smaller than 12pt. Text on coloured glass should be no smaller than 14pt and a heavier font weight to minimise the risk of ink bleeds.

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Sample requests

SOLOS Glass will provide one 450mm x 450mm sample per project for client approval. Additional sample requirements may incur a fee.

Please contact us to discuss your specific project and sample requirements.

Sign off process

1. 450mm x 450mm sample provided for sign off on colours, resolution and transparency
2. Digital proof emailed for sign off on scale and position of artwork on glass

No production will commence until both sign offs are received.

In-house Designers

With an in-house team of Graphic Design professionals, SOLOS Glass can bring your vision to reality. To contract our design team for artwork creation, additional fees will apply. Call us to discuss your specific project requirements.



How to specify

Glass Capabilities

- Min glass size: 450mm x 450mm
- Max glass size: 6000mm x 3300mm
- Glass thickness: 4mm - 19mm

Graphics (Vector)

- File Type Required: EPS, AI or PDF
- 300dpi min resolution
- RGB colour space
- All layers unlocked
- Text converted to outlines
- All spot colours converted to CMYK or removed from artwork

Photographic Files

- File Type Required: TIFF, JPEG, or PSD Format
- 300dpi min resolution
- RGB colour space
- All layers unlocked

Note: Photographic images need to be supplied at the highest possible resolution.

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Benefits

- Combines market leading design options with the highest levels of performance and functionality
- Maximum individual panel sizes of 6m x 3.3m with fully scalable high resolution images and designs
- Manufactured as toughened, custom laminated or as a component within an IGU
- Applied to any glass thickness from 4mm through 19mm
- Photorealistic reproduction of any design or image with 1410dpi resolution
- Control the levels of transparency, translucency and opacity easily
- Eco-friendly, sustainable and recyclable printed glass solution
- Highly durable and resistant to scratching, acid, UV and weather
- Double sided design options available
- Extensive colour range and finish options
- Heavy metal free inks

Applications

- Automotive/Transport
- Canopies
- Curtain walls
- Decorative panels
- Internal and external wall cladding
- Memorials and signage
- Partitions and room dividers
- Roofing
- Shopfronts and retail glazing
- Shower screens and splashbacks
- Spandrel panels and building facades
- Stained glass windows
- Staircases
- Walkways