

Access a New Level of
Digital Architectural Glass

Design Freedom and Functionality Control

The latest innovations in glass printing technology open new opportunities to combine boundless creativity with highly controlled functionality. Full expression of vision and outstanding budget-smart performance delivery are now possible with digital ceramic in-glass printing.

- **Easy implementation**

Of any pattern or design, with unlimited colors, and high resolution for fine details.

- **Durability and accuracy**

Inks are fused into the glass, providing unmatched resistance to scratching, acid, UV light and weather. Precise micro-drop printing allows accurate photorealistic and graphic designs.

- **A new medium for expression**

The ability to combine transparent, translucent and opaque details in any way, full freedom in colors and shades, and the possibility to create double-vision designs for different front and back experiences, are moving glass printing into the realm of tools for design.

Outstanding Functional Performance

Mercatum's solution for digital ceramic in-glass printing meets complex functional performance requirements. It enables control of all special elements of architectural and designed glass:

- **Translucency/opacity**
- **Light diffusion and transmission**
- **Energy efficiency**
- **Privacy levels**
- **Slip resistance**
- **Anti-bird collision**

Sustainable Architecture

Mercatum's printed glass meets environmentally responsible architecture goals:

- The glass is recyclable and offers eco-friendly functionality.
- Using this technology can assist with LEED and other environmental certification.
- The printed glass contains no toxic heavy metals.
- It is an excellent building material for preventing bird collision.
- Printing a new design on glass panels is well-suited to urban renewal projects where redesigning only parts of buildings is preferable to demolition and rebuilding.
- Over time, if elements need to be replaced or added, individual glass panels can be printed and perfectly matched to the existing panels, eliminating the cost and waste of more extensive refurbishment.

Budget-Smart Design

From the initial design stage, through the value engineering process, Mercatum assists architects, designers and consultants with calculating the long-term savings enabled by digital ceramic printed glass. If needed, Mercatum helps evaluate alternative ways of using digital in-glass printing, so that printed glass elements can be kept in a project, even as budgets change over time.

A New Era In Digital Ceramic In-Glass Printing



GUSTO GELATO

Architect

Iredale Pederson Hook

Location

Perth, WA, Australia

Printed By

Cooling Brothers

Photographer

Cooling Brothers Glass Company
and Robert Frith

SPECIFICATIONS

Printed Area

185 sqm / 1991 sqf

Number of Panels

130

Colors

Grey scale raster imagery
White ink for vector graphic

Glass Type

13.52 Clear Low E with vanceva
interlayers and ceramic frit



MORaine VALLEY COMMUNITY COLLEGE

Architect
Demonica Kemper

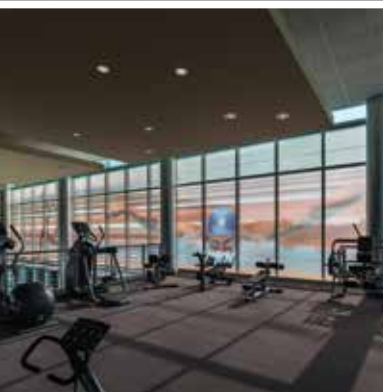
Location
Palos Hills, IL, USA

Printed By
Goldray

SPECIFICATIONS

Number of Panels
55

Glass Type
6mm clear



KUOPIO UNIVERSITY HOSPITAL

Architect
Partanen & Lamusuo

Location
Kuopio, Finland

Printed By
Rakla Tampere Oy

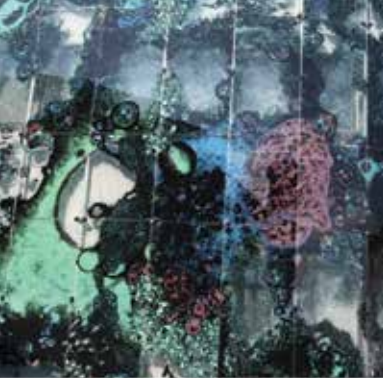
SPECIFICATIONS

Printed Area
1,500 sqm / 16,146 sqf

Number of Panels
476

Colors
Digital mix

Glass Type
6+6 mm clear glass



WINNIPEG WOMEN & NEWBORN HOSPITAL

Architect

Parkin Architects and
Architecture49

Location

Winnipeg, MB, Canada

Printed By

Goldray

SPECIFICATIONS

Number of Panels

Approx. 1100

Glass Type

¼" clear tempered glass

¼" Solar Ban 70XL Low-E glass

Dual Vision

IGU's with Solar Ban 70XL Low-E



EDUCATION PARK EZINGE

Architect
Atelier Pro

Location
Meppel, the Netherlands

Printed By
Thiele Glas

Architect: Building
Atelier PRO architecten,
The Hague

Art facade
Driessen, Van Deijne,
Amsterdam

Photographer
Si-X & Bert Kiers,
Jean Paul Mioulet

SPECIFICATIONS

Printed Area
560 sqm / 6027 sqf

Glass Type
TG-PRINTdigital (Pos. 2) on
TG-PROTECT®-TVG /
TG-EMAILLE8mm Toughened
Safety Glass





90 GRAYSTON DRIVE SANDTON

Architect
GLH Architects

Location
Gauteng, South Africa

Printed By
PG Glass Building

SPECIFICATIONS

Printed Area
20 000 sqm / 215 278 sqf

Colors
Various colors

Glass Type
GraphixArt Pilkington K Low E
8mm Toughened Safety Glass

CARDBOARD CATHEDRAL

Architect

Shigeru Ban Architects

Location

Christchurch, New Zealand

Printed by

Metro Performance Glass

Photographer

Bridgit Anderson

SPECIFICATIONS

Printed Area

126 sqm / 1,356 sqf

Number of Panels

49

Colors

Digital mix

Glass Type

Clear insulated glass



POH MING TSE TEMPLE

Architect

Tan Peng Geok,
Park and Associates
Architects

Location

Singapore

Printed by

GSC Glass Ltd

SPECIFICATIONS

Printed Area

144 sqm / 1,550 sqf

Number of Panels

50

Colors

White

Glass Type

Laminated glass



GLASS FARM

Architect
MVRDV

Location
Schijndel, the Netherlands

Printed by
AGC Glass Europe

SPECIFICATIONS

Printed Area
1,800 sqm / 19,375 sqf

Number of Panels
500

Colors
Digital mix

Glass Type
Insulated glass





ORIGAMI BUILDING

Architect
Manuelle Gautrand

Location
Paris, France

Printed by
Interpane
Sicherheitsglas Gmbh

SPECIFICATIONS

Printed Area
900 sqm / 9,687 sqf

Number of Panels
962

Colors
Digital mix

Glass Type
TVG laminated glass





ROCKHEIM MUSEUM

Architect
Pir II

Location
Trondhjem, Norway

Printed by
Rakla, Finland

SPECIFICATIONS

Printed Area
800 sqm / 8,611 sqf

Number of Panels
420

Colors
White

Glass Type
TVG
laminated glass





SECRETS THE VINE

Architect

Rockwell Group, NY

Location

Cancun, Mexico

Printed by

PVA Vitro

SPECIFICATIONS / EXTERIOR

Printed Area

1,823 sqm / 19,622 sqf

Number of Panels

312

Colors

Grey and white

Glass Type

Clear laminated and tempered glass

SPECIFICATIONS / INTERIOR

Printed Area

10,630 sqm / 114,420 sqf

Number of Panels

3,949

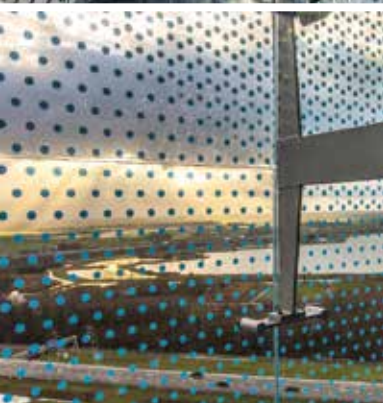
Colors

Grey and white

Glass Type

Clear tempered glass





FLETCHER HOTEL

Architect
Bentham Crouwel Architects

Location
Amsterdam, Holand

Printed by
Lisec Shanghai Group
of Companies

SPECIFICATIONS

Printed Area
3,312 sqm / 35,650 sqf

Number of Panels
590

Colors
Three shades of blue

Glass Type
Glass heat-strengthened





O'HARE INTERNATIONAL AIRPORT

Architect
Epstein

Location
Chicago, Illinois, USA

Printed by
Goldray Industries

Designer
Thirst

Photographer
Steve Hall © Hedrich Blessing

SPECIFICATIONS

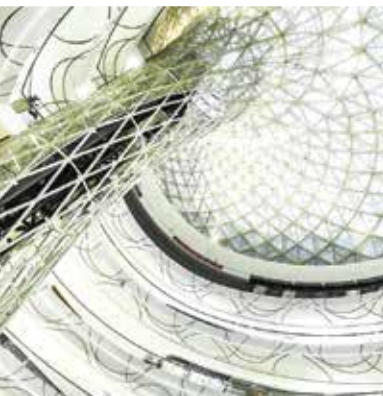
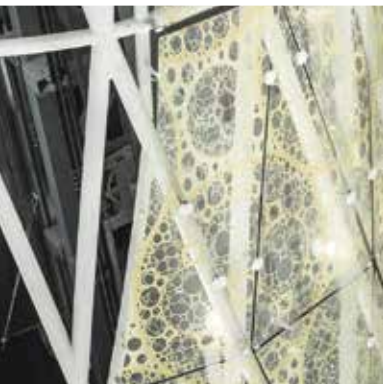
Printed Area
350 sqm / 3,746 sqf

Number of Panels
120

Colors
Digital mix

Glass Type
Laminated glass





HANJIE WANDA PLAZA

Architect
UNStudio

Location
Wuhan, China

Printed by
Glas & Tongue

Photographer
Edmon Leong

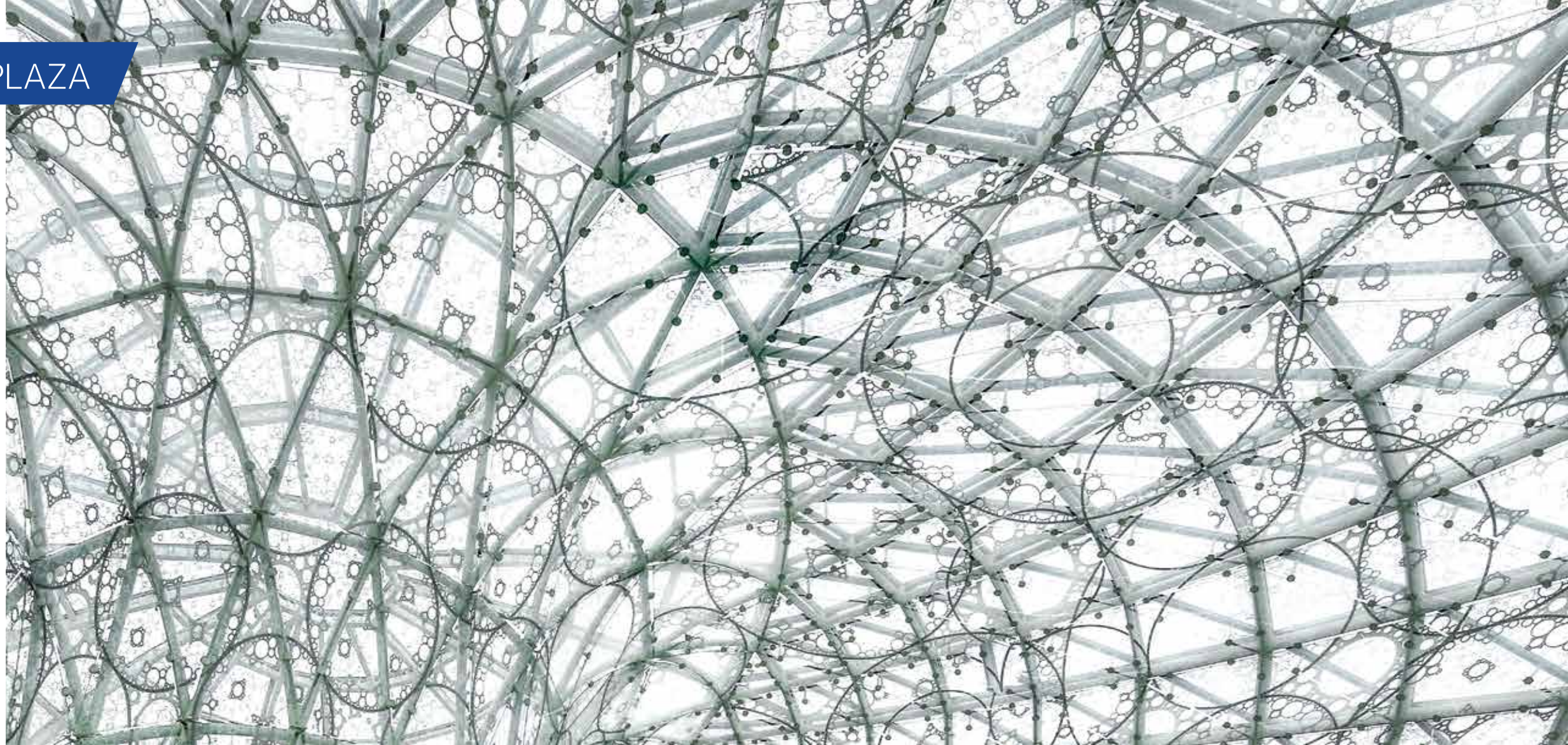
SPECIFICATIONS

Printed Area
3,500 sqm / 37,673 sqf

Number of Panels
2,346

Colors
Digital mix

Glass Type
6+6 IG white glass, 8+8
IG white bended glass



ART GALLERY

Architect

Turenscape Co., Ltd

Location

Guizhou, China

Printed by

South Bright Glass, China

SPECIFICATIONS

Printed Area

4,650 sqm / 50,052 sqf

Number of Panels

1,360

Colors

White

Glass Type

Low-iron glass





Mercatum is turning glass to digital!

Mercatum is turning glass to art!

Mercatum is enabling realization!

Mercatum is blowing tailwind to trade!

► See more of what this all means
under www.mercatum.fi

► For more information,
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