
DICHROIC
GLASS
LAURELGLASSTECH.COM
REFLECTIVE GLASS GUIDE

WHAT IS DICHROIC GLASS?

Dichroic glass, also known as colorful glass, is a kind of eye-catching coated glass with special optical performance and decorative style. Dichroic glass can change into different colors according to the top angle of the sun and the angle of the observer's position: orange, green, blue, pink, yellow, etc. The magical color-changing effect of dichroic glass has made it an ideal new environmental protection building material for creating high-end interior decoration and in the field of contemporary art, doors, tabletops, handrails, and curtain walls. It has the characteristics of vibrant, luxurious, elegance, and aesthetics.

Product name	Coating reflection				Glass reflection				Transmittance			
	*L	*Y	*a	*b	*L	*Y	*a	*b	*L	*Y	*a	*b
Temperable Dichroic Glass --Green 30	64.35	84.15	-38.89	37.69	65.22	84.6	-36.11	41.42	31.39	62.83	47.73	-40.69
Temperable Dichroic Glass --Blue 60	35.38	66.04	-27.89	-34.36	37.48	67.63	-29.79	-32.31	60.67	82.2	19.1	37.65
Temperable Dichroic Glass --Orange 70	30.45	62.04	39.65	42	28.64	60.47	40.7	39.12	69.15	86.58	-29.07	-15.4









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HOW TO PRODUCE DICHROIC GLASS?

The dichroic effect is achieved by vaporizing and applying multiple ultra-thin layers of metallic oxides, such as chromium, titanium, or magnesium, onto the surface of the glass using a vacuum deposition process.
The layers form a highly reflective, and interference-based coating that selectively transmits and reflects different wavelengths of light.



Laurel Glass Dichroic Series:



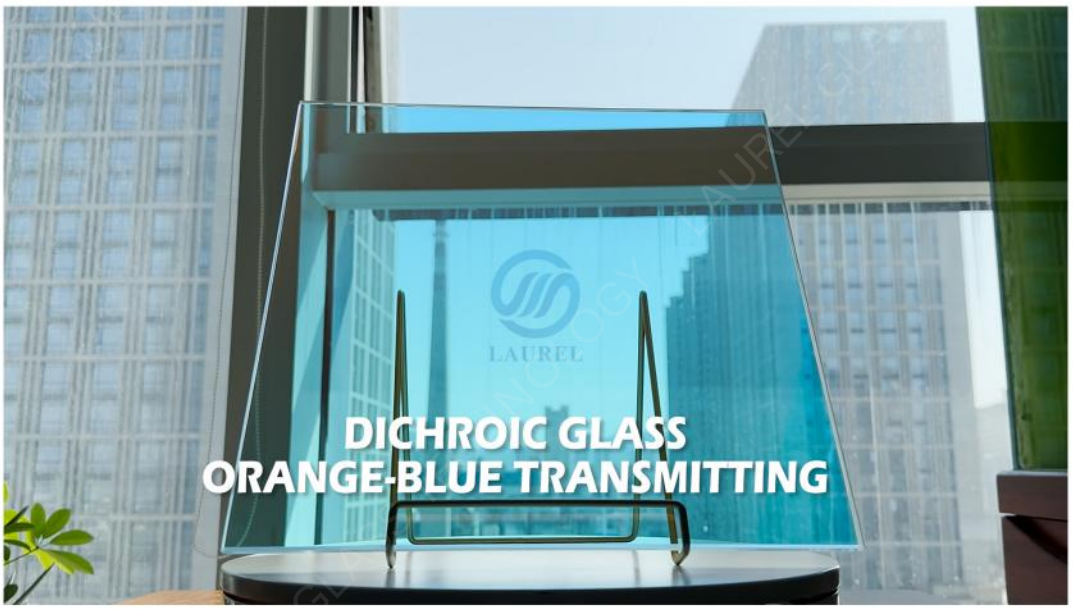




Reflection Color & Transmission Color







Reflection Color & Transmission Color







Reflection Color & Transmission Color







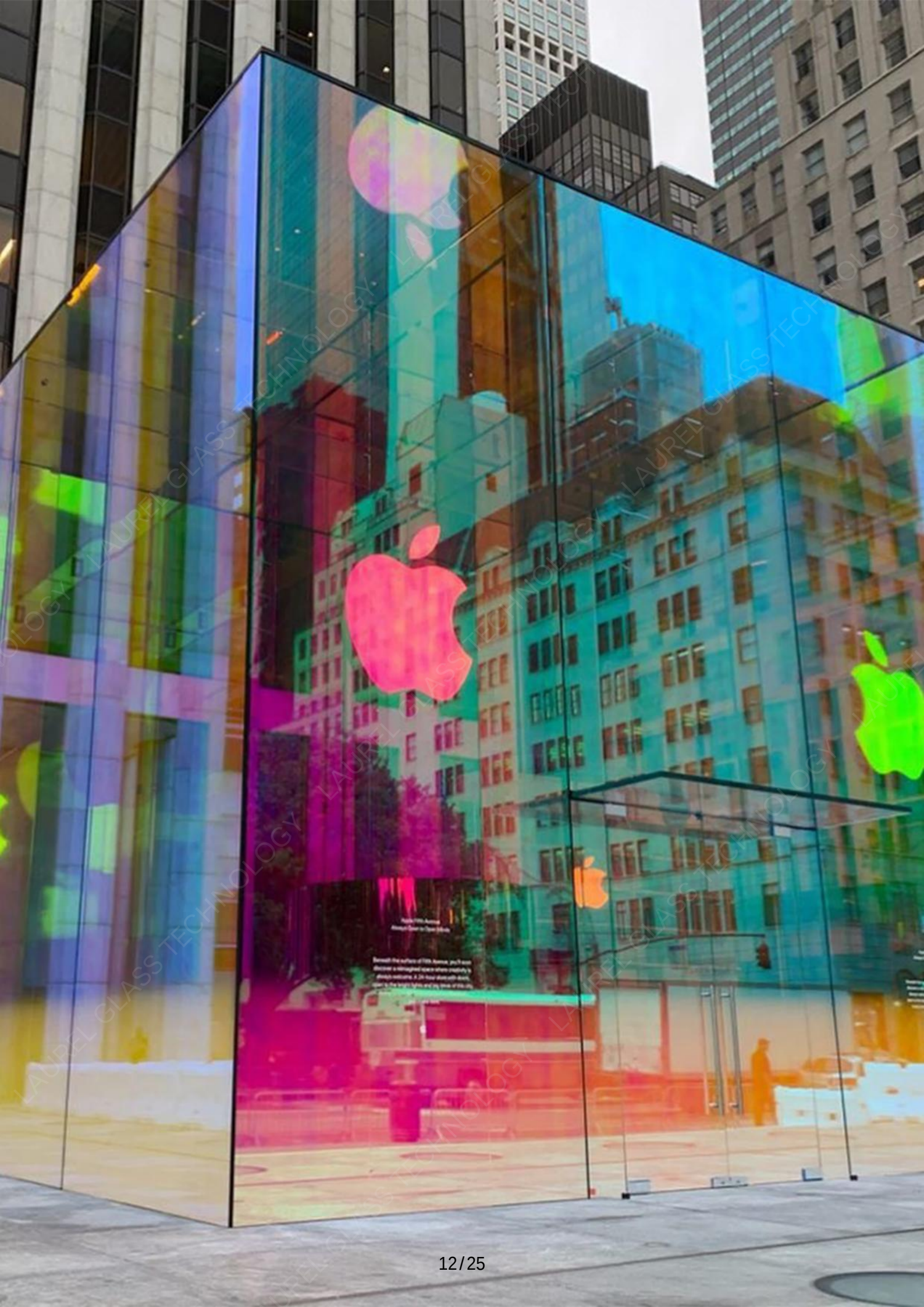
Watch real sample videos on our YouTube channel!

https://youtu.be/QSB2sxTFDLE

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Dichroic glass

can be further processed and customized

to meet specific architectural and structural requirements.
Whether it's through cutting, shaping, tempering, or laminating,
this versatile material can be adapted to suit the unique needs of your design,
offering both aesthetic appeal and functional performance
in a variety of architectural applications.

THICKNESS	4mm-12mm
SIZE	2440*3300mm 2140*3300mm 2140*3660mm 2440*3660mm
COLOR	Blue Dichroic, Orange Dichroic, Green Dichroic
PROCESSING	Tempered, Curved, Heat-soak Test, Cut-to-size, Slotted, Punched, Polished, PVB or SGP laminated, Insulated
APPLICATION	Squares, Office Buildings, Museums, Opera, Theaters, Cinemas, Shopping Malls, Partition Walls, Doors, Glass Railings, Countertop, Commercial or Residential Sphere etc.

Dichroic series tempering parameters

Glass Thickness (mm)	Heating Temperature (°C)	Heating Time (S)	Hot air blower working time (%)	Hot air blower operating frequency (Hz)
5	Up 685 Down 680	210	25/30/20/--	9/11/12/10
6	Up 680 Down 680	250	20/30/30/--	9/11/12/10
8	Up 680 Down 680	330	20/30/30/--	10/12/12/12



Studio Osman Akan new sculpture, "Fragmenta" - Anchorage, Alaska
The panels are 24” x 24” and are laminated with polished edges.









Benefits of Using Dichroic Glass

· Aesthetic Appeal
Dichroic glass shifts colors depending on the angle of light,
creating a dynamic and visually captivating effect.
This characteristic adds depth and interest to any design,
making it ideal for both art and architecture.

· Versatility
Whether used in architecture, art, divider, lighting, or signage,
dichroic glass can be creatively employed in many ways.
It is customizable to suit various design needs.

· Design Flexibility
Dichroic glass complements both modern and traditional styles
and can be adapted for different types of projects,
from custom glasswork to large-scale installations.

· Durability
The coating on dichroic glass is resistant to scratches, cracks, and wear,
ensuring a long-lasting product.
It can be made into toughened glass or laminated glass
to further enhance its performance,
making it suitable for indoor use, high-traffic areas, or outdoor applications.

· Weather Resistance
Dichroic glass holds up well against outdoor elements,
retaining its color and integrity even when exposed to harsh conditions.

· Enhanced Lighting Effects
The color-changing properties of dichroic glass are further enhanced
by different lighting, creating stunning effects
in both natural and artificial light.
It is ideal for creating dynamic displays or accent lighting.

· Unique Artistic Expression
Each piece of dichroic glass appears different from every angle,
offering endless creative possibilities.
Artists and designers use this glass to create works that feel alive
with color and light.

· High-Quality Finish
With its smooth, glossy finish, dichroic glass has a refined
and premium look. It is easy to clean and maintain,
making it a top choice for luxury designs in both art and architecture.

Dichroic Film vs. Dichroic Glass

Compared with Dichroic Film, Dichroic Glass Is The First Choice



Application and Adhesion

Dichroic Film: Self-adhesive but may cause delamination, bubbles, and wrinkles over time.
Dichroic Glass: Coated with a hard layer, making it more durable and resistant to these issues.

Temperature Sensitivity

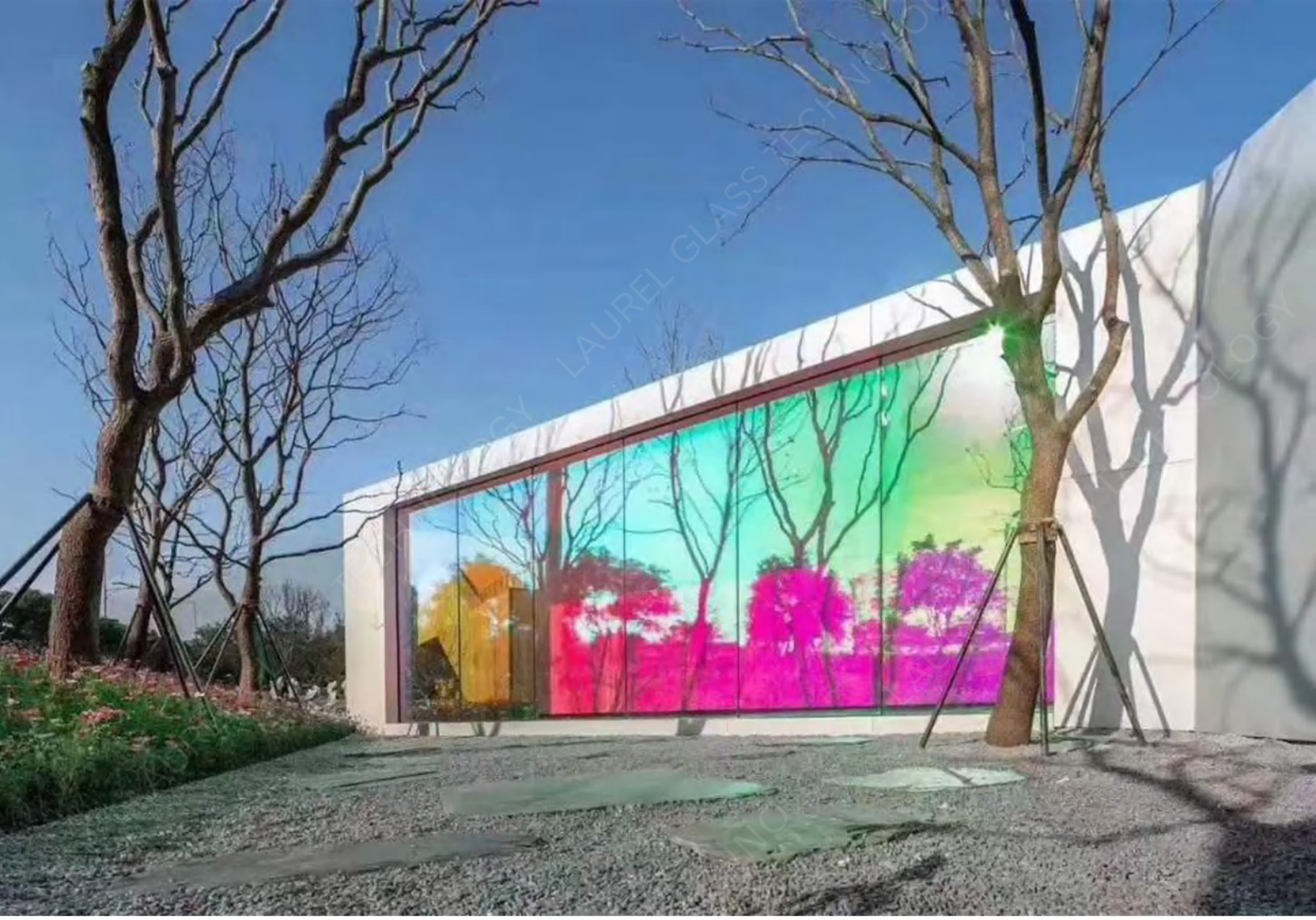
Dichroic Film: Can't handle temperatures over 80°C —it may wrinkle or break.
Dichroic Glass: Can endure higher temperatures and be processed (e.g., tempered or laminated) without damage.

Chemical Resistance

Dichroic Film: Sensitive to strong chemicals; exposure may cause fading or shrinking.
Dichroic Glass: Resistant to chemicals and more durable in outdoor environments.

Durability

Dichroic Film: Has lower anti-corrosion and oxidation resistance.
Dichroic Glass: Highly durable, suitable for outdoor and high-traffic applications.









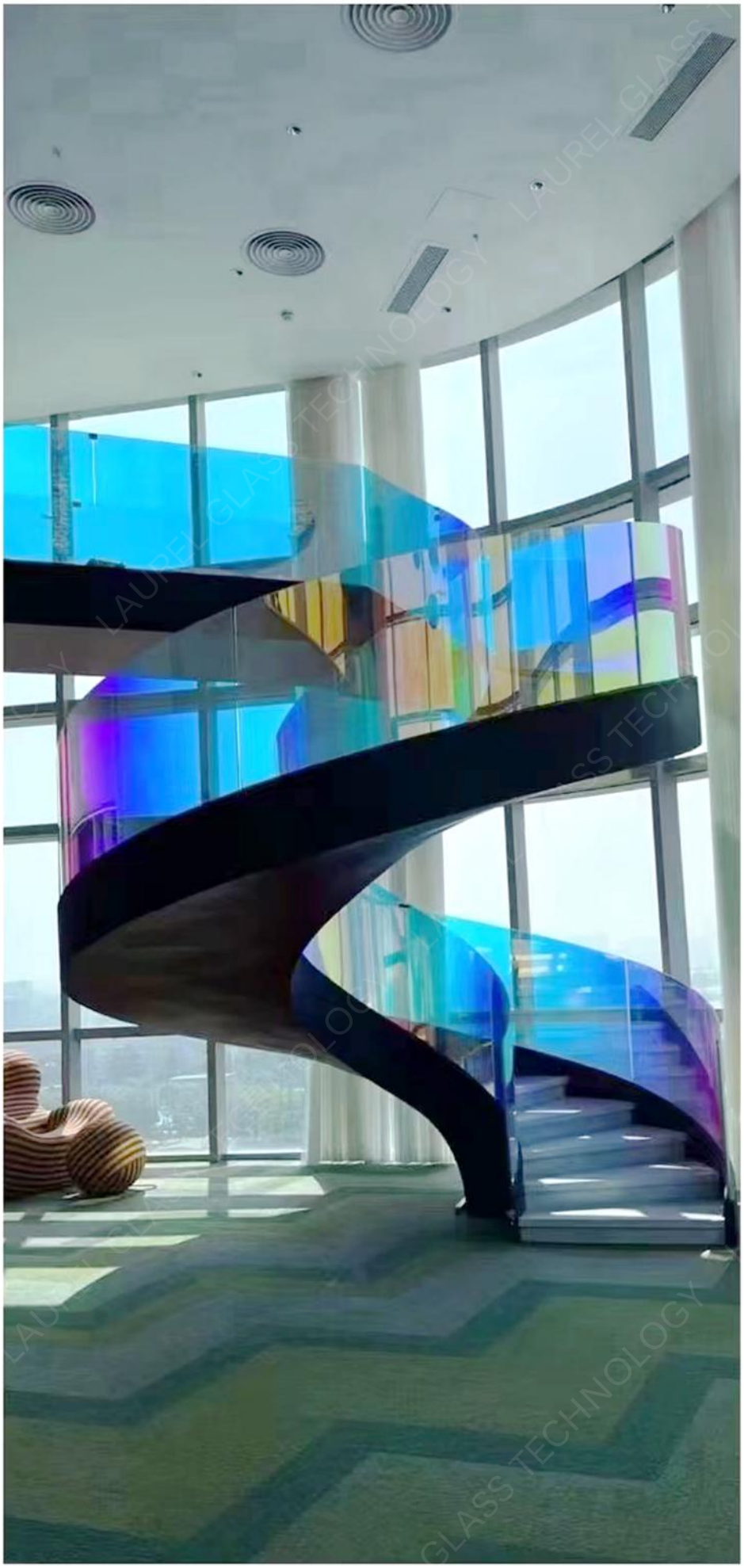




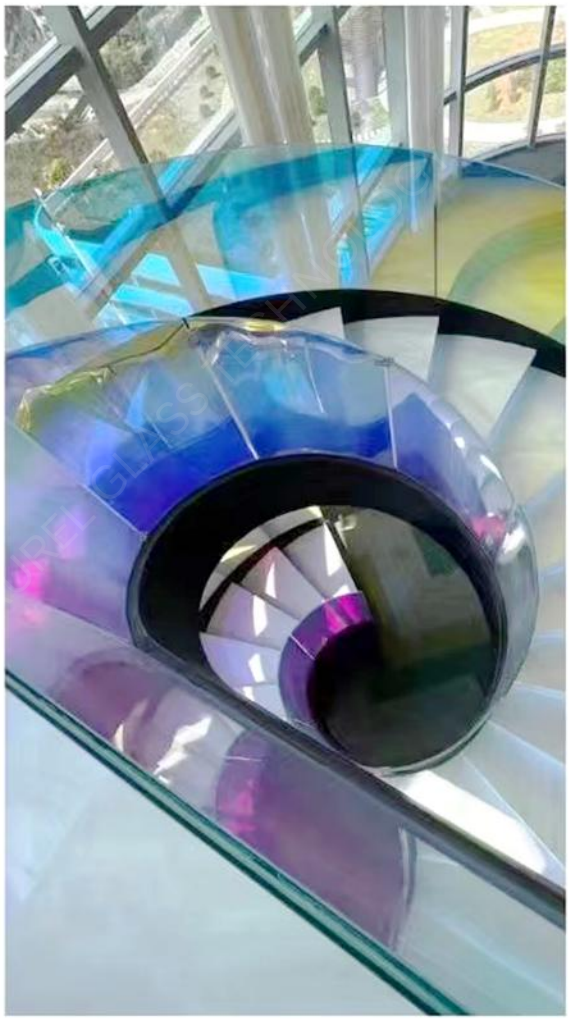




Applications:
Windows, Facades, Balustrades, Partition Walls, Glass Doors, Skylights, Hotel Decorations, Art and Sculptures, Furniture, Museum, Exhibition Displays, Theater, Shopping Mall, Railing...







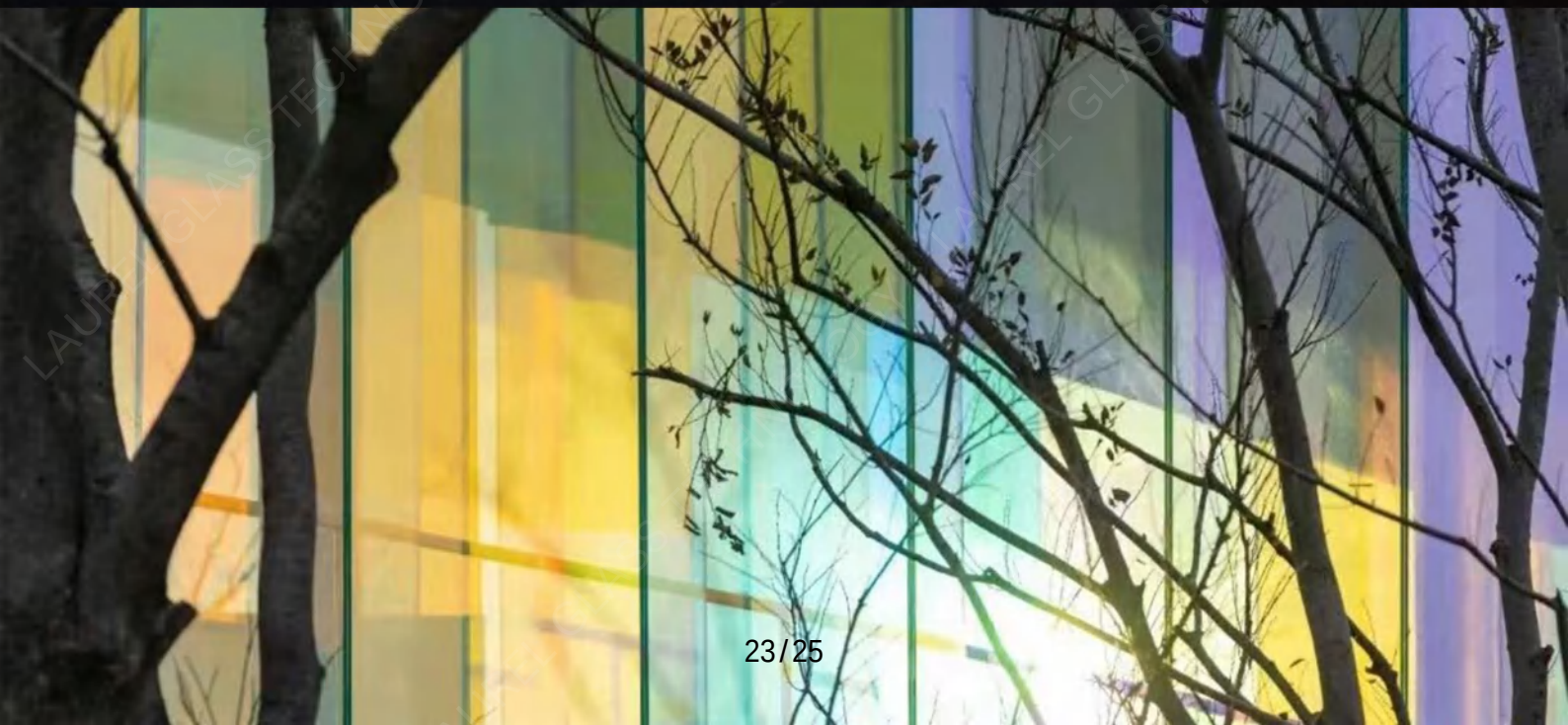







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QINGDAO LAUREL GLASS TECHNOLOGY CO., LTD was established in 2003.
Based in Qingdao City, the North of China, we have become one of the most professional and reputable integrations of industry and trade with a wide spectrum of glass businesses in architecture facades, interior decoration, furniture, shower glass, and optical applications.
By more than 20 years of development, Laurel Glass has boomed into a powerful company with 280 skilled workers, 30 multilingual sales staff, 1000+ long-term cooperative customers from all over the world, and a 100,000m² workshop with top processing equipment, various processing methods, high capacity, and strong R&D ability.



Established in 2003 and based in Qingdao City in the north of China, we are a highly professional and reputable company that integrates industry and trade. We specialize in a wide range of glass products for various applications such as architecture, interior decoration, furniture, and electronic use. Our expertise lies in providing solutions for tempered glass, laminated glass, insulated glass, curved glass, and shower glass.

With over 20 years of development, Laurel Glass has grown into a strong company with 280 skilled workers, 30 multilingual sales staff, and over 1,000 long-term cooperative customers from around the world. Our workshop spans 100,000 square meters and is equipped with top processing equipment, various processing methods, high capacity, and a robust R&D capability.





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Unlock New Possibilities in Architectural Glass Design

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