

BYG.GLASS



WhatsApp



WeChat



PRODUCT CATALOG

COMPANY PROFILE

Guangdong Foshan BYG Glass is a large-scale source manufacturer integrating R&D, design, production, and sales of tempered glass, insulated glass, art glass, and household glass products. Specific products include sound and heat insulation glass, LOW-E glass, patterned glass, plain glass, ultra-clear glass, colored glass, wire-reinforced glass, laminated glass, hot-bent glass, hot-melt glass,glue-filled glass, engraved glass, deep-engraved glass, and painted glass, among other decorative glass products.

Our products are widely used in high-end domestic and international brand doors and windows, bathroom fixtures, high-end home furnishings, star-rated hotels, high-end clubs, commercial complexes, design, decoration and renovation projects, etc.

The company comprises four business divisions: single-layer, hollow, craft, and finished home furnishings. These divisions aim to integrate functional building materials with spatial aesthetics to meet the needs of modern development and customers.



DDLDC Dye-Doped LC Dimming Film

DDLDC Dye-Doped LC Dimming Film - - - - - 1 ~ 2

PDLC Dimming Film

Standard Grade - - - - - 3 ~ 7

Automotive Grade - - - - - 8

Graphic Dimming Film

Two-Section Split - - - - - 9 ~ 13

Standard Louver - - - - - 14 ~ 18

Custom Louver - - - - - 19 ~ 21

Steady-State Graphic - - - - - 22 ~ 26

Dynamic Graphic - - - - - 27 ~ 32

Star Glass Film

Starry Sky - - - - - 33 ~ 35

Gradient Star - - - - - 36 ~ 37

Custom Star - - - - - 38 ~ 41

DDLC Dye-Doped LC Dimming Film

Technical Innovation Crossing from Conventional to Intelligent

The DDLC dye-doped liquid crystal dimming film is an upgraded iteration of polymer-dispersed liquid crystal (PDLC) technology. By introducing dichroic dye molecules into the liquid crystal, it delivers performance breakthroughs that conventional PDLC cannot reach. Its core principle: when an electric field is applied, the liquid crystal molecules and dye molecules align cooperatively, switching the film from a scattering (hazy) state to a transparent state. When the power is off, the molecules become randomly oriented, producing a high-haze shielding effect.

Compared with conventional PDLC, the dye-doped LC dimming film achieves qualitative leaps in the following respects:

- Color Innovation** Selective absorption by the dye molecules delivers natural tones such as black and grey, eliminating the visually harsh milky-white haze of conventional PDLC.
- Heat Insulation** The dye molecules absorb UV (blocking rate >99%) and infrared light. Combined with the heat-reflective character of the liquid crystal layer, cabin temperature after 2.5 hours of direct sun is 7-9°C lower than with an ordinary sunroof, significantly reducing air-conditioning load.
- Response Speed** Millisecond switching, far faster than the minute-level response of electrochromic (EC) and SPD technologies, meeting customers' demand for instant light control.

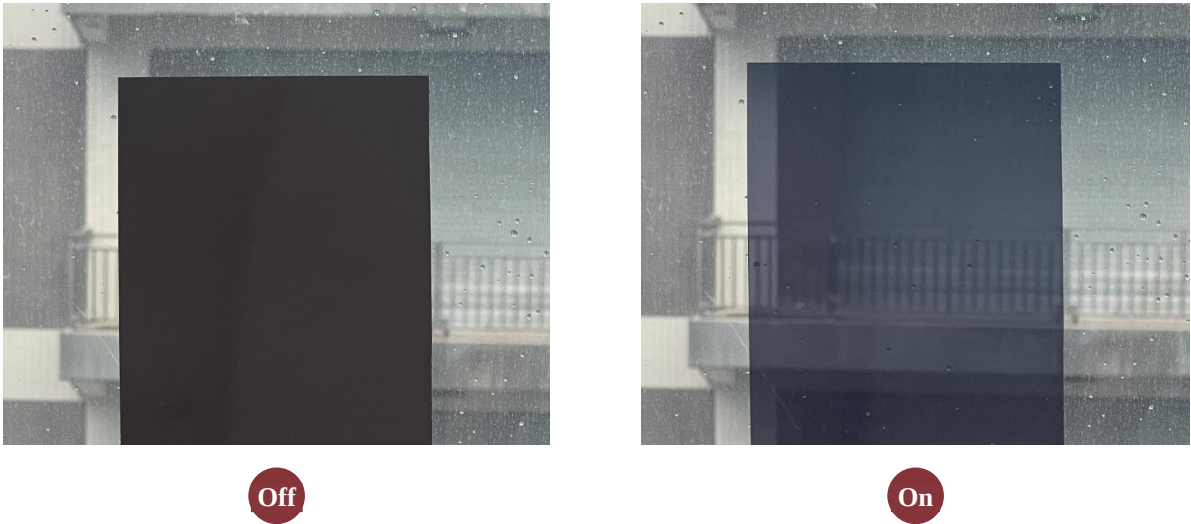
Parameter Model	Light Transmittance (T)		Contrast Ratio	Haze (H)	
	OFF	ON		OFF	ON
0512 (Architectural)	8.12	40.80	5.0	98.92	3.09

Multi-dimensional Applications Full Coverage from Architectural to Automotive Glass

Thanks to its unique advantages, the DDLC dye-doped LC dimming film is moving into the automotive sector, expanding from a single function to full-scenario coverage:

- Application Scenarios** As the most mature application today, the smart panoramic roof uses dye-doped LC film for zoned, stepless dimming. Users can define their own shading zones - preserving the driver's view while giving rear passengers privacy.
- Automotive Applications** For windows and side-door glass, the DDLC film replaces conventional privacy glass. Dynamic adjustment of light transmittance delivers one-way privacy: fully screening the cabin when off and staying highly transparent when on, meeting the privacy needs of business travel.

DDLC Dye-Doped Liquid Crystal Dimming Film



Market Landscape Technical Competition and Comparison

Technology	Response Time	Color Performance	Cost	Typical Applications
PDLC	Millisecond-level	Milky white	Low	Interior glass partitions Car sunroofs, side windows
DDLC	Millisecond-level	Natural black	Medium	Premium panoramic roofs, privacy glass Curtain walls
EC	Minute-level	Blue series	High	Rear-view mirrors, Premium car windows
SPD	Second-level	Neutral grey	Very high	Windshield Curtain walls

PDLC Dimming Film

Description

Standard dimming film is designed for environments with moderate light and temperature. Depending on the process requirements, it is supplied as lamination-grade dimming film or self-adhesive dimming film.

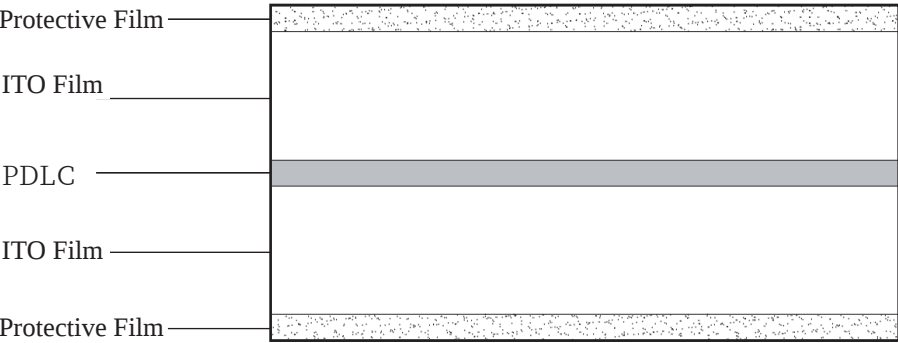
Lamination-Grade Dimming Film

Process laminated between two panes of glass or other materials.

Sealing The main encapsulant is EVA interlayer film.

Life Protected by the EVA interlayer, the service life under normal use exceeds 15 years.

Product Structure



Model	Transmittance (%)	Haze (%)	Thickness (mm)	Roll Width (mm)	Roll Length (m)	Operating Temp. (°C)
GT3	82	3.5	0.27	1000/1200 1500/1800/2000	50	-20~70
CT2	86	3.0	0.40	1000/1200 1500/1800/2000	50	-20~70
CT3	91	3.0	0.40	1200	50	-20~70
HS	43	3.5	0.40	1200	50	-20~70

Roll

Sheet

Model

GT3 High Clarity

Base

Mitsubishi substrate, Japan

Features

Excellent value, low shrinkage.

Thickness (mm)

0.27

Width (mm)

1000\1200\1500\1800\2000

Roll

Sheet

Model

CT2 Ultra Clear

Base

Toray substrate, Japan

Features

High clarity, low haze.

Thickness (mm)

0.40

Width (mm)

1000\1200\1500\1800\2000

Roll

Sheet

Model

CT3 Ultra Clear

Base

Toray substrate, Japan

Features

Highest clarity, low haze.

Thickness (mm)

0.40

Width (mm)

1200

Roll

Sheet

Model

HS Grey

Base

Toray substrate, Japan

Features

Grey tone, haze-insensitive, great look.

Thickness (mm)

0.40

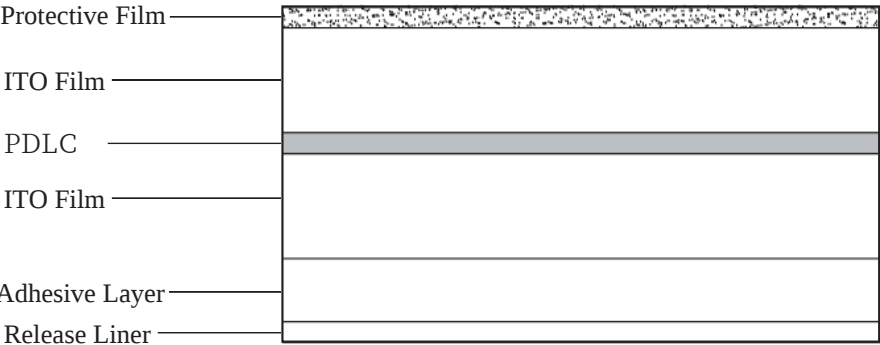
Width (mm)

1200

Self-Adhesive Dimming Film

- Process Introduction** One side of the film carries an adhesive layer. When the glass surface is clean and free of foreign matter, peel off the release liner and apply the film directly to the glass, using the silicone layer's self-degassing property.
- Application Scenarios** Suitable for single-glazed or insulating glass units.
- Life** Under normal conditions the service life exceeds 10 years.

Product Structure



Model	Transmittance (%)	Haze (%)	Thickness (mm)	Roll Width (mm)	Roll Length (m)	Operating Temp. (°C)
Z-GT3	82	3.7	0.37	1000/1200 1500/1800/2000	50	-20~70
Z-CT2	86	3.2	0.50	1000/1200 1500/1800/2000	50	-20~70
Z-CT3	91	3.2	0.50	1200	50	-20~70
Z-HS	43	3.7	0.50	1200	50	-20~70



- Model** Z-GT3 High Clarity
- Base** Mitsubishi substrate, Japan
- Features** Thin, easy to apply, great value.
- Thickness (mm)** 0.37
- Width (mm)** 1000\1200\1500\1800\2000



- Model** Z-CT2 Ultra Clear
- Base** Toray substrate, Japan
- Features** High clarity, low haze.
- Thickness (mm)** 0.50
- Width (mm)** 1000\1200\1500\1800\2000



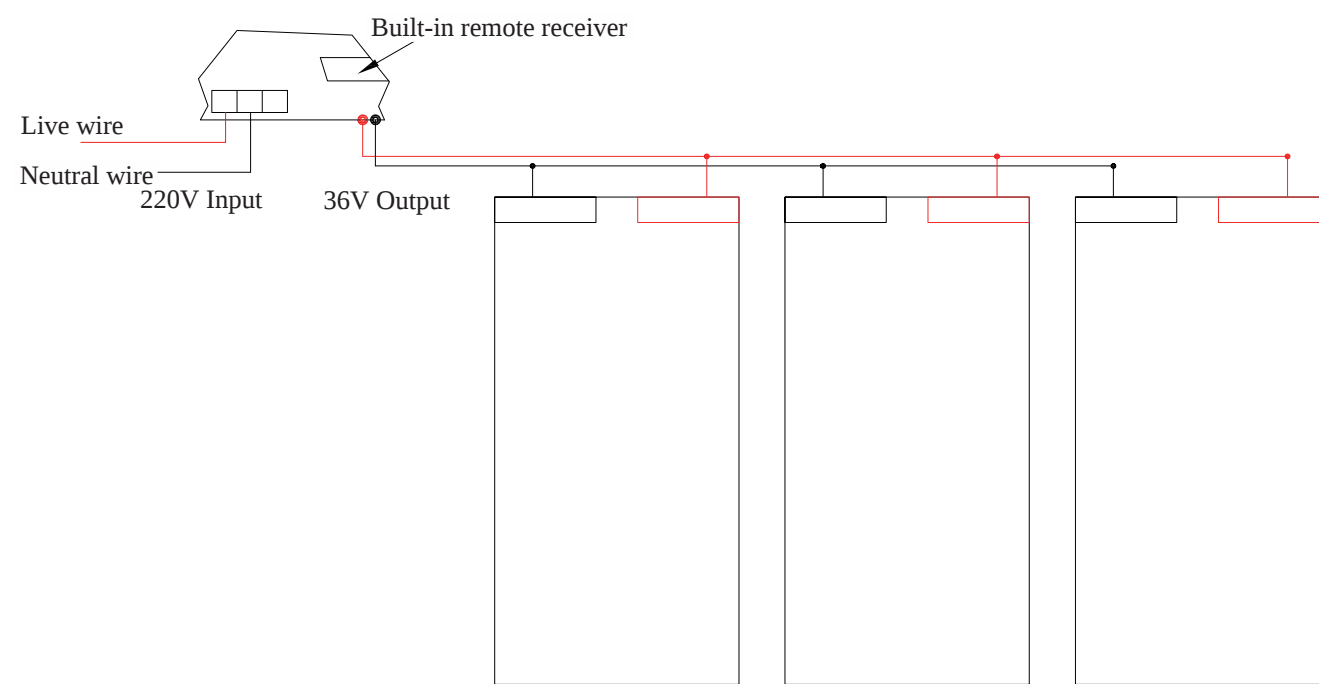
- Model** Z-CT3 Ultra Clear
- Base** Toray substrate, Japan
- Features** High clarity, low haze.
- Thickness (mm)** 0.50
- Width (mm)** 1200



- Model** Z-HS Grey
- Base** Toray substrate, Japan
- Features** Grey tone, haze-insensitive, great look.
- Thickness (mm)** 0.50
- Width (mm)** 1200

Dimming Film Accessories							
Product Photo	Name	Model	Dimensions (mm)	Power (W)	Input (AC-V)	Output (AC-V)	Coverage (m²)
	Power Supply	P100	210*120*47	100	110/220	48/60	≤7
		P200		200			≤15
		P500	250*158*60	500			≤38
	Remote	Model	Dimensions (mm)	Remote Range (m)	Signal Range (m)	Battery Model	Used with the power supply
		YK06	120*45*13	>20	315 RF	23A12V	
	Panel Switch	Model	Dimensions (mm)	Remote Range (m)	Signal Range (m)	Battery Model	Used with the power supply
		YK07	86*86*34	>20	315 RF	23A12V	

Wiring Diagram



Automotive-Grade Dimming Film

The innovative choice for smart vehicles, opening a new era of intelligent driving

Automotive dimming film is an innovative technology quietly reshaping the driving experience. In terms of performance, automotive-grade PDLC film offers outstanding environmental adaptability:

1. Wide operating temperature range from -30°C to 90°C, tolerating both severe cold and prolonged sun exposure.
2. Damp-heat resistance - no electrode oxidation, film delamination or performance decay in high humidity.
3. Strong weather resistance - UV-aging resistant, no yellowing and no bubbling. It also offers further advantages: extremely fast response, completing the clear-to-hazy switch in milliseconds, with a fastest switching time of 5 ms. Privacy protection is excellent: the distinctive white haze effectively screens objects more than 10 cm beyond the glass, while within 10 cm only a blurred outline is visible - fully meeting privacy requirements. In addition, PDLC film provides safety and anti-shatter performance: it significantly improves the impact resistance of glass. If the glass breaks - for example from a falling object - the fragments do not scatter but stay firmly bonded to the interlayer, greatly enhancing safety and protecting occupants. It also blocks part of the infrared radiation, reducing heat radiation and transfer for a degree of shading and thermal insulation.

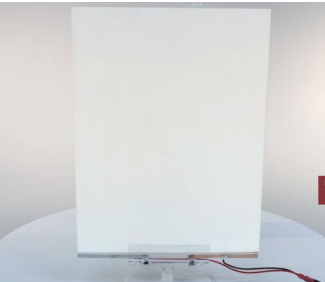
PDLC dimming film sees wide use in vehicles, appearing in door glass, rear windows and sunroofs.

Item	Condition	Specification
Transmittance	Transparent state	83.1%
Haze	Transparent state	3.1%
Operating Temp.	/	-30~90°C
High-temperature durability test	90°C 2000H	Pass
Damp heat test	85°C 1000H	Pass
UV aging test	1000 h in a standard UV aging chamber	Pass

Roll



Sheet



Model

GT-188-C3D

Base

Japanese substrate

Features

Wide temp range, weatherproof, automotive grade.

Thickness (mm)

0.40

Width (mm)

1200

Graphic Dimming Film

The graphic dimming film is an upgraded version of the standard dimming film. Laser etching is used to etch the desired content onto one or two ITO films, and with PDLC coating technology and dedicated equipment it becomes a dimming film rich in meaning - no longer a single-function product, but a technology product able to express emotion, brand identity, cultural value and information. Depending on the application, graphic dimming film is divided into two-section split film, louver film, steady-state graphic film and dynamic graphic film.

Model	Thickness (mm)	Application	Transmittance (%)	Haze (%)	Max. Size (mm)	Operating Volt. (V)	Operating Temp. (°C)
GC White	0.39	For lamination	82	3.5	1500*3000	36~48	-20~70
Z-GC White	0.39	Self-adhesive	82	3.7	1500*3000	36~48	-20~70
Z-GH Grey	0.39	Self-adhesive	68	4.1	1500*3000	36~48	-20~70

Two-Section Split Dimming Film

Product Features

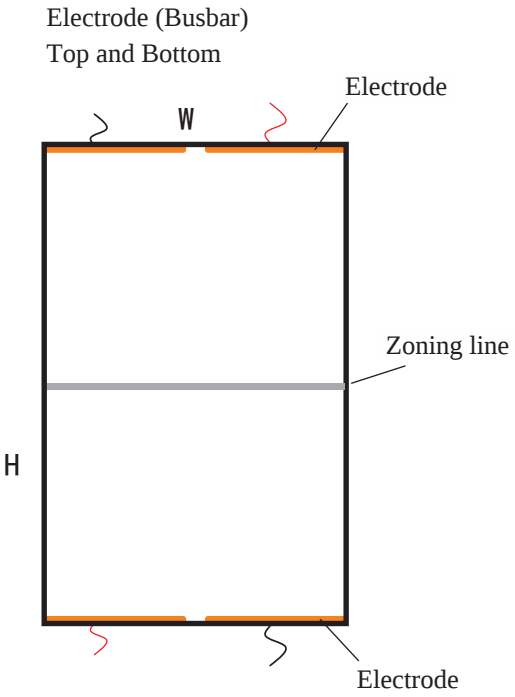
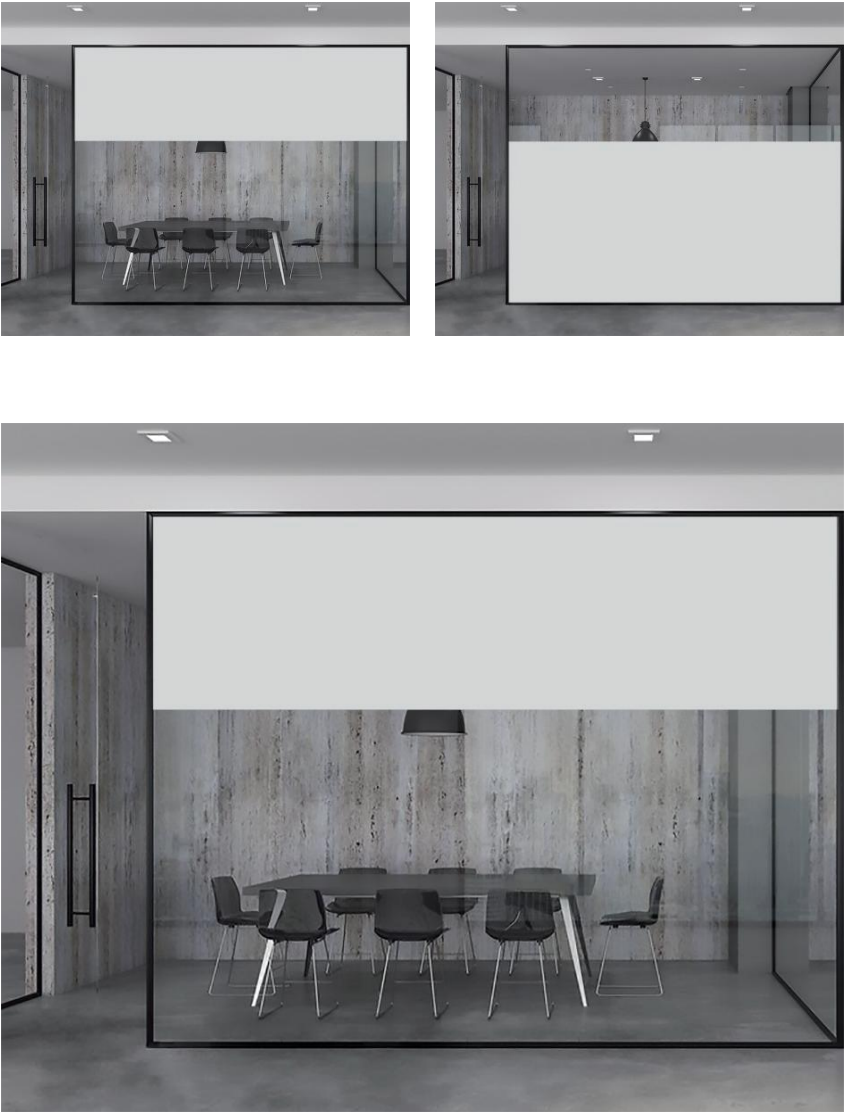
Using advanced etching technology, the film is divided into two zones - upper and lower. Each zone can be controlled independently for clear or hazy, or both together.

Selling Points

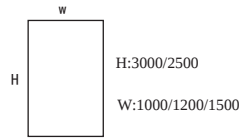
Compared with a universal dimming film, the two-section split film offers a highly cost-effective way to achieve partial shading, partial privacy and partial transparency. The traditional waistline pattern is used as the dividing line for a more personalised experience. Depending on the application, the two-section split film is available in Simple Style and Decorative Style.

Simple Style

Model: F-2D24JD01



Standard Sizes (RM sizes)



Scan

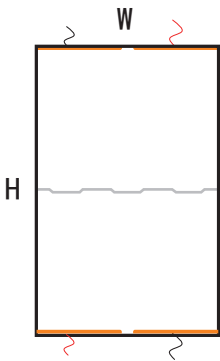


Decorative Style

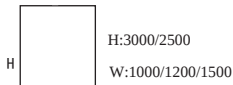
Model: F-2D24JD03



Electrode (Busbar)
Top and Bottom



Standard Sizes (RM sizes)



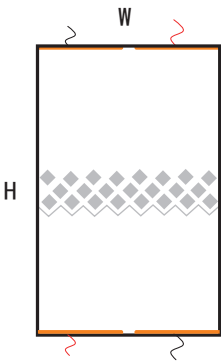
Scan



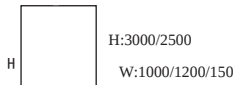
Model: F-2D24YX01



Electrode (Busbar)
Top and Bottom



Standard Sizes (RM sizes)



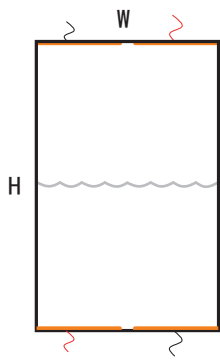
Scan



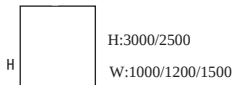
Model: F-2D24JD04



Electrode (Busbar)
Top and Bottom



Standard Sizes (RM sizes)



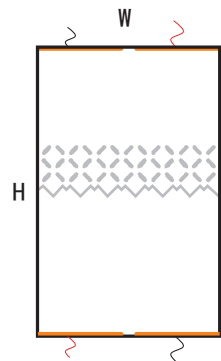
Scan



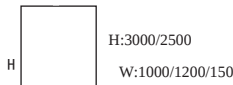
Model: F-2D24YX02



Electrode (Busbar)
Top and Bottom



Standard Sizes (RM sizes)



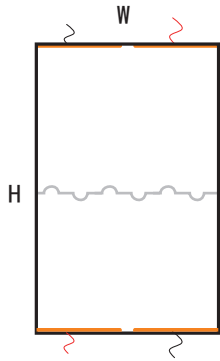
Scan



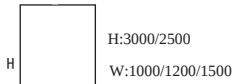
Model: F-2D24JD05



Electrode (Busbar)
Top and Bottom



Standard Sizes (RM sizes)



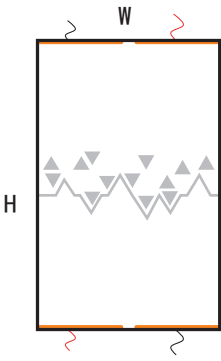
Scan



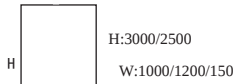
Model: F-2D24YX04



Electrode (Busbar)
Top and Bottom



Standard Sizes (RM sizes)



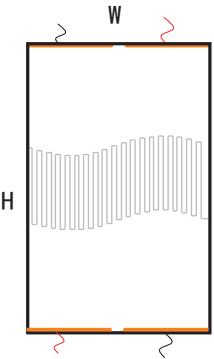
Scan



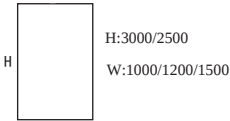
Model: F-2D24FZ04



Electrode (Busbar)
Top and Bottom



Standard Sizes (RM sizes)



Scan



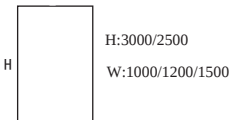
Model: F-2D24FZ02



Electrode (Busbar)
Top and Bottom



Standard Sizes (RM sizes)



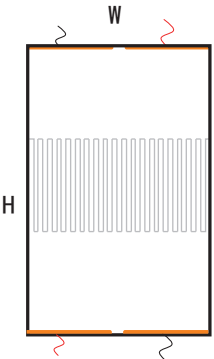
Scan



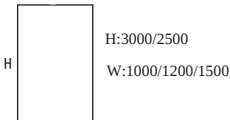
Model: F-2D24FZ01



Electrode (Busbar)
Top and Bottom



Standard Sizes (RM sizes)



Scan



Standard Louver Dimming Film

The louver dimming film is more than a functional replacement for conventional blinds - it re-imagines how light and shadow are controlled in a space. With its "no mechanics, zero noise, fully intelligent" character, it removes the fundamental pain points of traditional blinds in efficiency, maintenance and space adaptation. It also brings aesthetic possibilities through dynamic change. From homes to commercial interiors, from basic shading to intelligent curtain walls, louver dimming film is becoming the standard choice for high-end fit-out and intelligent upgrades, leading the era of "breathing spaces of light and shadow".

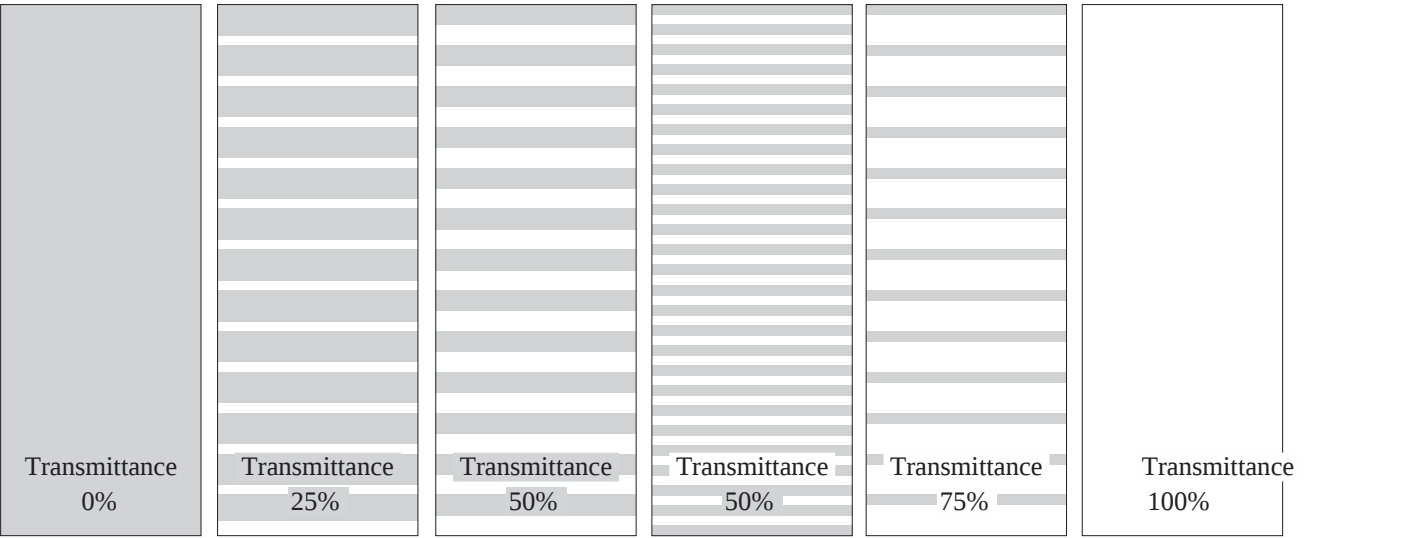
Product Features

Combining the merits of traditional blinds and dimming film, it is available in louver widths from 12.5 mm to 100 mm, each with six clarity levels. It can be applied directly to existing door and window glass, or made into laminated louver glass for door leaves or window frames.

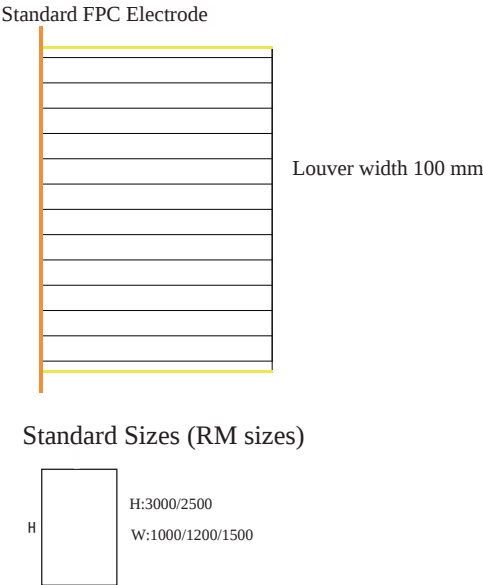
Selling Points

Compared with conventional blinds, the louver dimming film offers: instant, silent switching between fully clear, half-shaded and fully shaded, with no maintenance cost from mechanical wear; suitability for tight spaces with no extra installation room; precise light control with softer transmitted light and no glare; and clean, flowing lines that pair traditional louver styling with modern dimming technology, matching a wide range of interior styles.

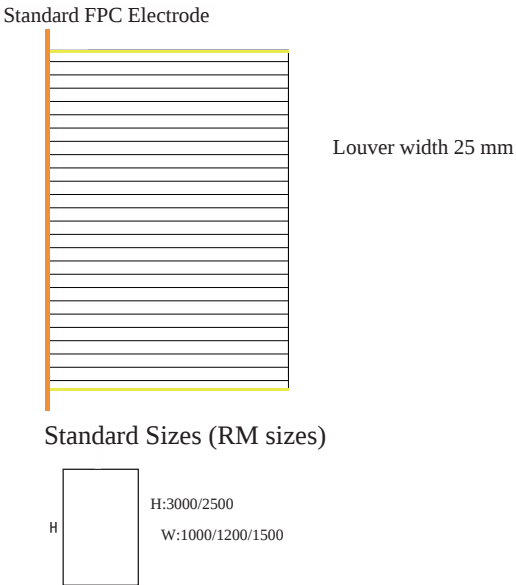
Standard Louver Modes



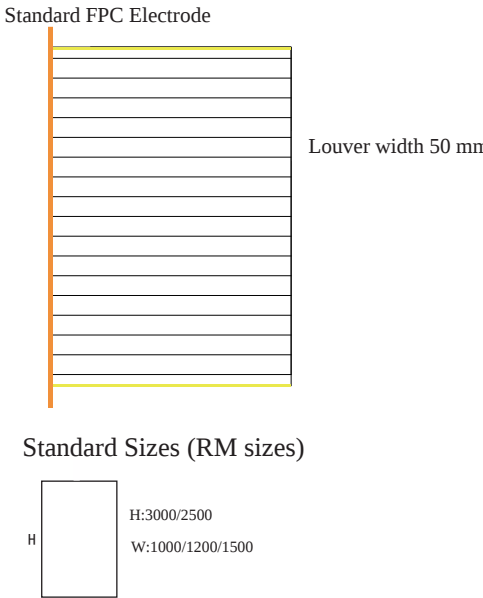
BY100 (100 mm louver) Standard Louver Dimming Film



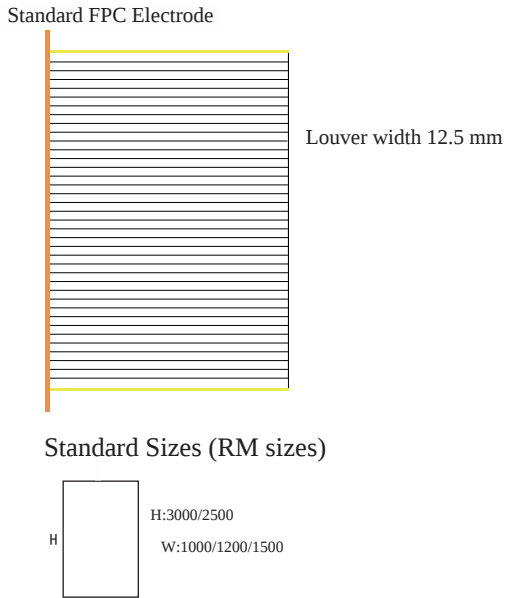
BY25 (25 mm louver) Standard Louver Dimming Film



BY50 (50 mm louver) Standard Louver Dimming Film

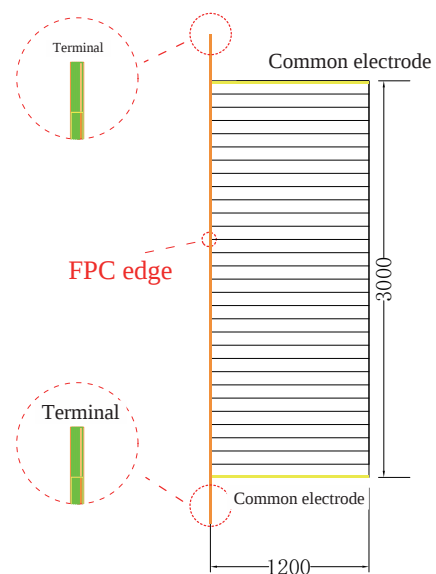


BY12 (12.5 mm louver) Standard Louver Dimming Film



Standard Louver Dimming Film - Cutting Diagram

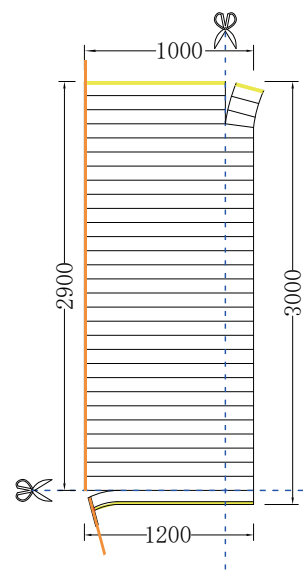
Example: standard louver size 3000 x 1200 mm



(1)

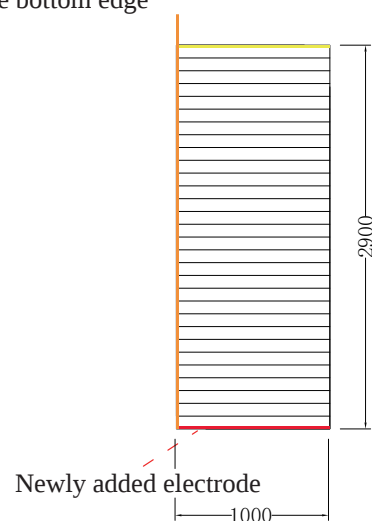
The film size required by the customer is 2900 x 1000 mm; cut as shown below.

Note: in the width direction only the non-FPC edge may be trimmed; in the height direction only one electrode edge needs to be trimmed. If less than a full louver strip remains, the remaining part may not function normally.



(2)

After cutting, a new common electrode must be made along the bottom edge



(3)

When the film height is below 1.5 m, two common electrodes are not required; above 1.5 m an additional common electrode must be made at the bottom, otherwise local haze will be too high.



(4)

Standard Louver Accessories



Remote Control (YK01)
50*15 mm



Controller (K04)
125*25*80 mm



Dedicated Power Supply (P100/P200/P500)
210*120*47mm



Extension cable
L 1000/1500/2300 W 7 mm



Junction Box (T0601)
20*40mm

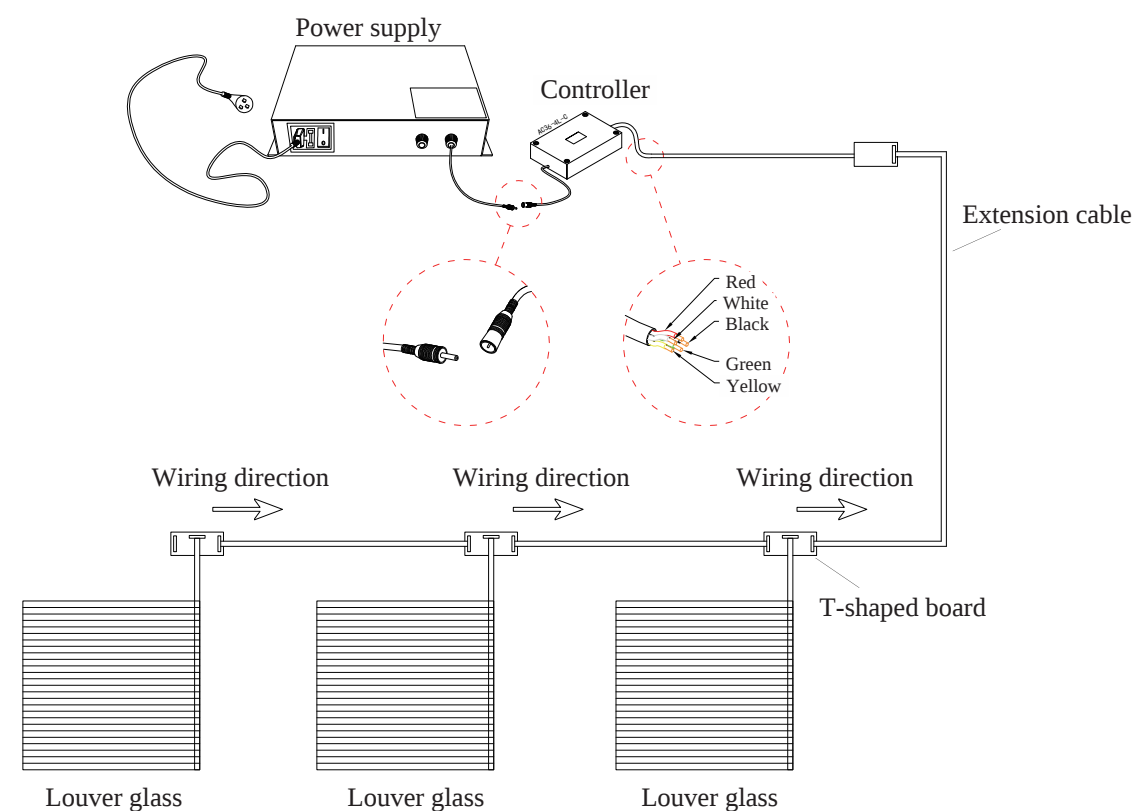


Trim Strip (PVC12)
10m*1.2m



Glass sealant
(BLJ01 opal / BLJ02 black)

Standard Louver Dimming Film - Installation Structure



Custom Louver Dimming Film

Custom louver dimming film is not simply a product - it is a re-interpretation of light and shadow in space. Its "exclusive customisation" breaks the limits of conventional shading: every window precisely matches its functional requirements and aesthetic style, and integrates into an intelligent ecosystem. Whether for a private residence pursuing ultimate comfort, a commercial space building brand experience, or a public building blending technology and humanity, custom louver dimming film provides a dedicated intelligent light-and-shadow solution - light adjusted at will, spaces renewed by light.

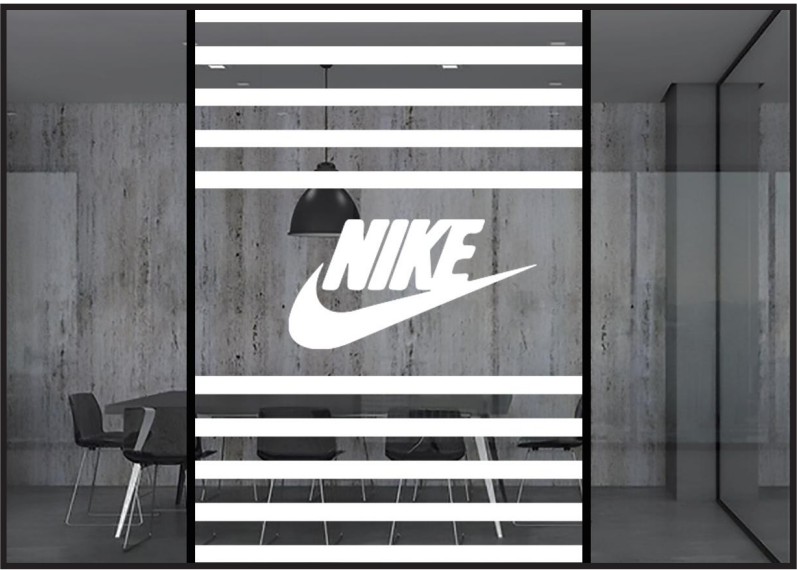
Product Features

Flexible sizes, multiple haze levels, local pattern etching, wide temperature range.

Selling Points

Custom louver dimming film meets the needs of users seeking a distinctive atmosphere. Whether a private residence creating its own space or a commercial venue strengthening its brand image, sizes, functions and appearance can be customised on demand, giving every window its own character.

Partial Louver, Partial Variation



Max. Size
W:1500 mm H: 3000mm



Full Louver, Full Variation



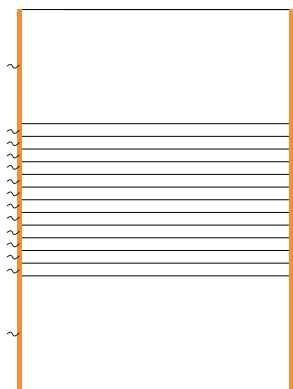
Max. Size
W:1500 mm H: 3000mm



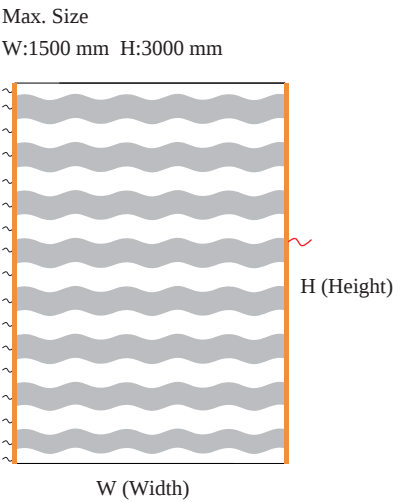
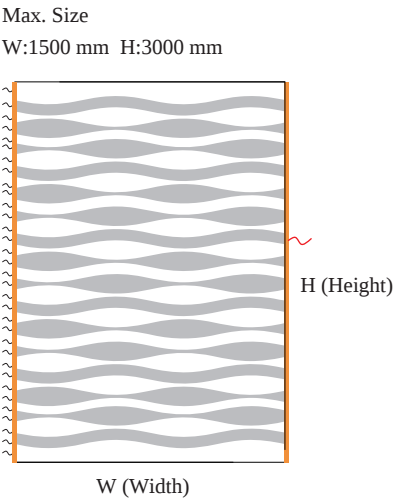
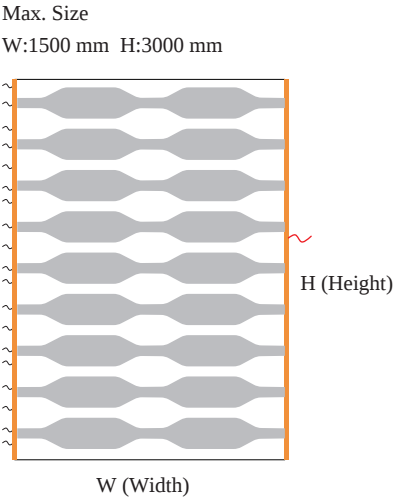
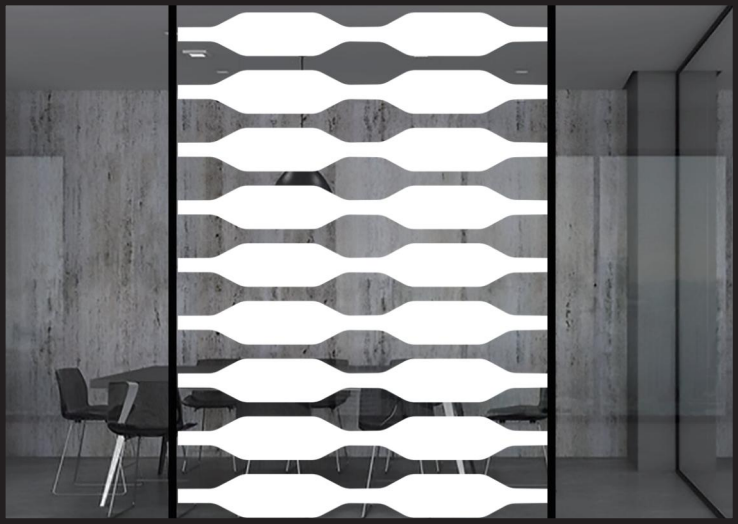
Partial Louver, Partial Variation



Max. Size
W:1500 mm H: 3000mm



Deformable Louver



Steady-State Graphic Dimming Film

With its rich variety of customisable patterns and wide range of applications, steady-state graphic dimming film brings a new light-and-shadow experience and decorative effect to a space. It meets functional needs and plays an important role in aesthetics and cultural expression, becoming an indispensable creative element in modern spatial design and setting a new trend in light-and-shadow design.

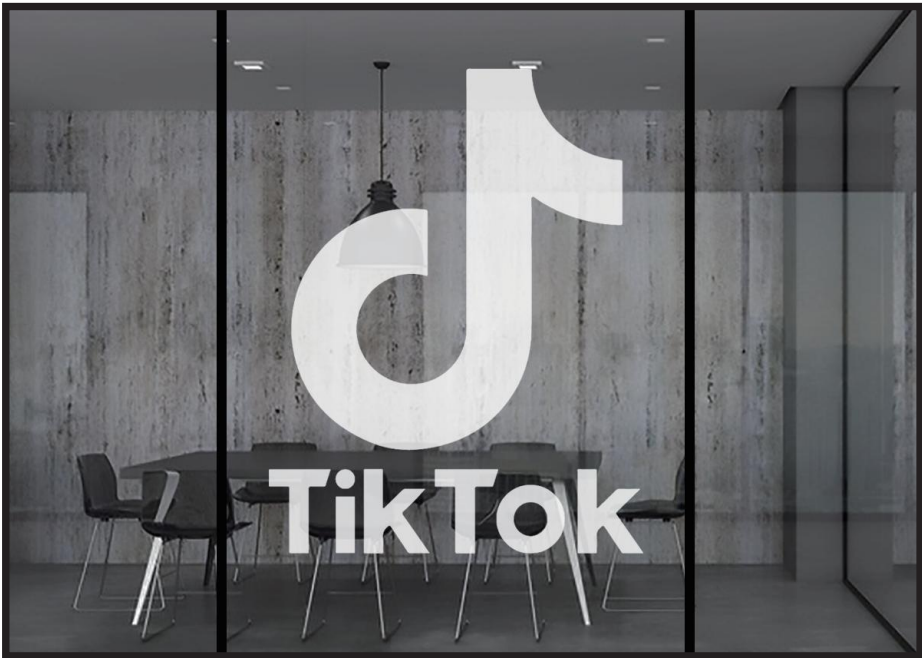
Product Features

The steady-state graphic has no channel and is not powered; when fully hazy the pattern is invisible. When powered, the area outside the graphic becomes transparent and the pattern appears immediately. Patterns can be customised as logos, geometric shapes, figures, animals and plants, landscapes, religious elements and decorative motifs.

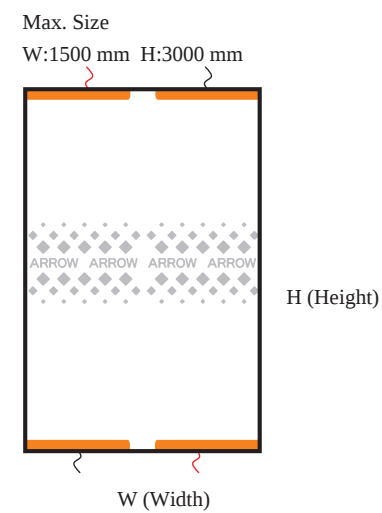
Selling Points

As an upgraded version of the standard dimming film, it perfectly adds artistic atmosphere to home interiors or creates a distinctive discreet sign or logo for commercial venues, meeting personalised decoration needs. Wiring is the same as for standard dimming film, so installation is simple and convenient.

Brand Identity Display



Brand Identity Display



Geometric Patterns

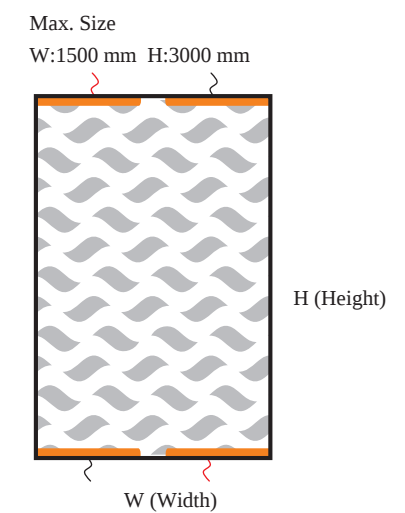
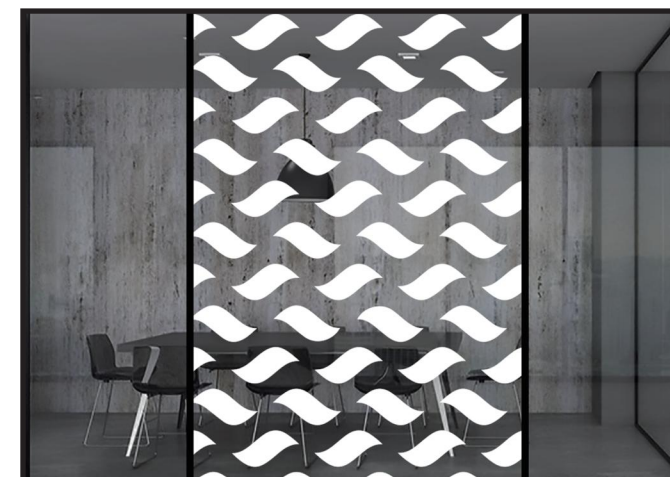
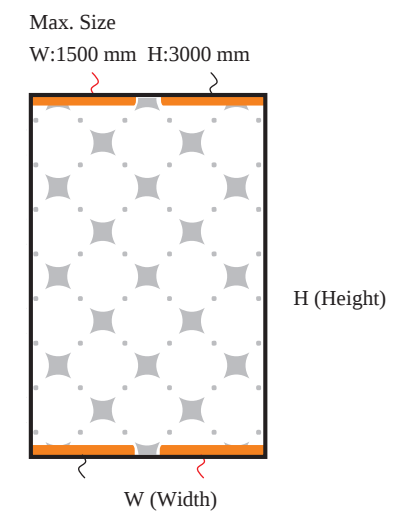
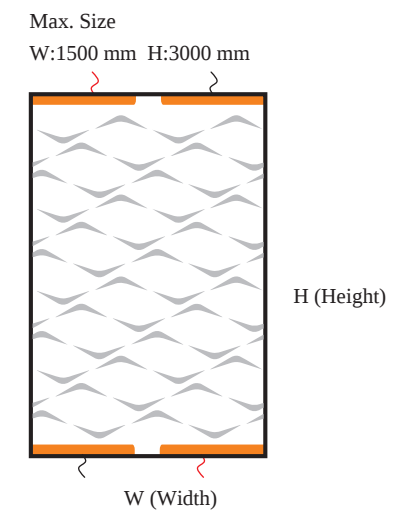
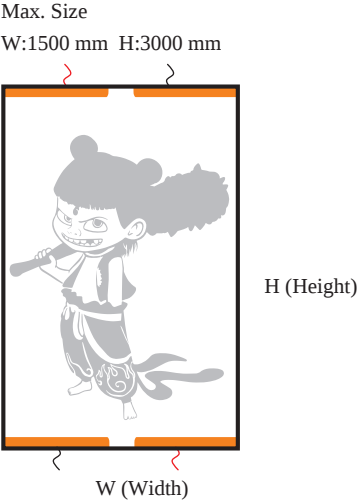
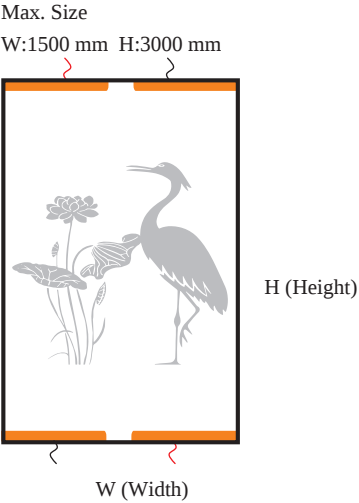


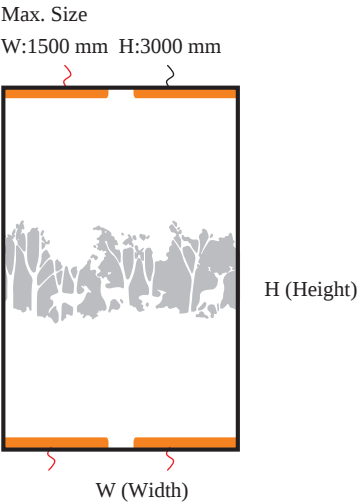
Figure Patterns



Bird-and-Flower Patterns



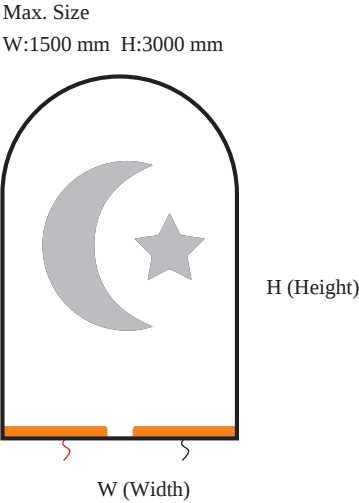
Landscape Patterns



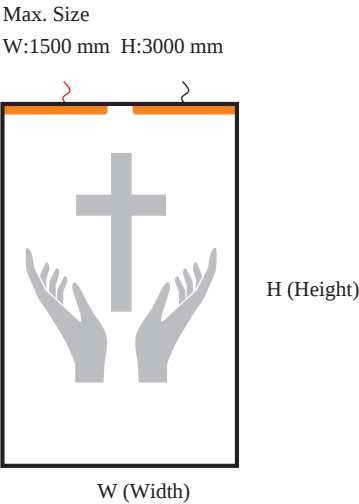
Religious Patterns (Buddhism)



Religious Patterns (Islam)



Religious Patterns (Christianity)



Dynamic Graphic Dimming Film

From displays in commercial spaces to partition design in offices and private zones at home, dynamic graphic dimming film performs brilliantly everywhere.

It blends function with decoration: adjusting light intensity and privacy levels flexibly to the needs of the space, and using distinctive pattern design to create a singular aesthetic atmosphere that expresses the cultural meaning of the space. It has become an indispensable creative element in modern spatial design, leading the frontier of light-and-shadow design.

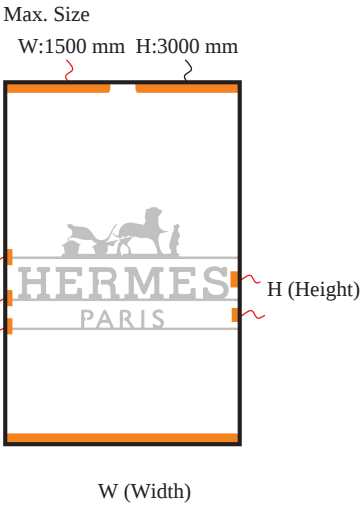
Product Features

A customised product: pattern, variation and control are driven by customer requirements, usually following the stages of requirement brief, effect-image confirmation, project development, production and installation guidance.

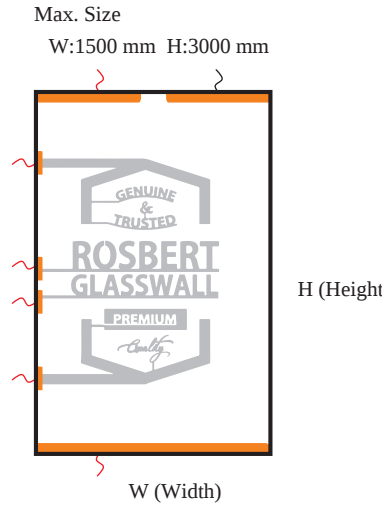
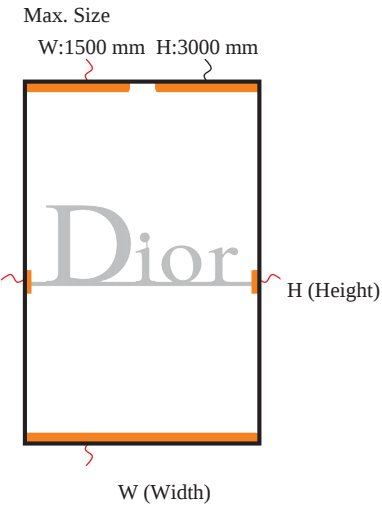
Selling Points

Patterns can be switched on partially or fully as required, highlighting the intended message and creating strong visual impact and lasting impression.

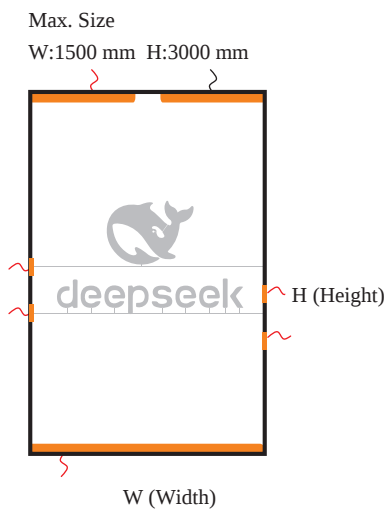
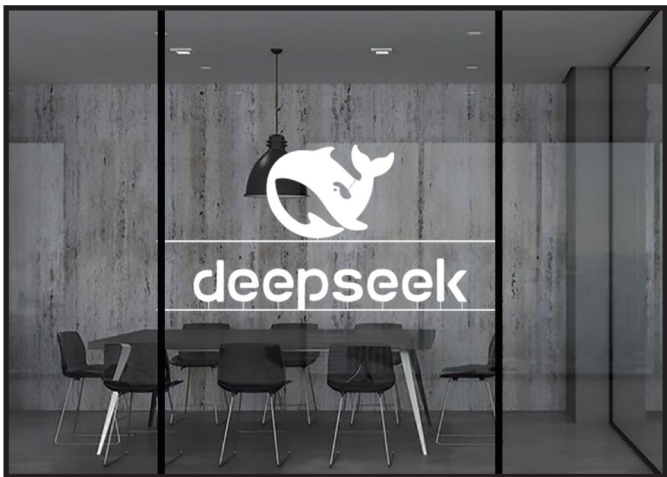
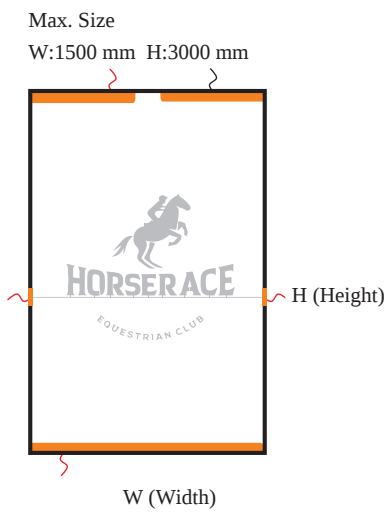
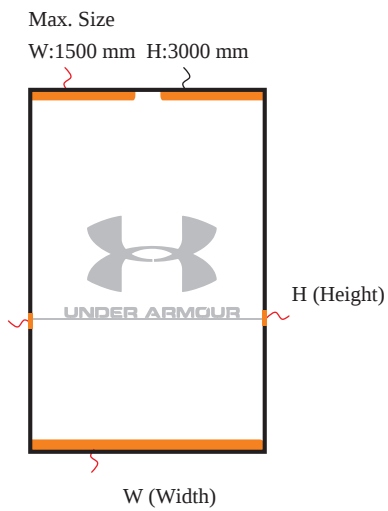
Brand Identity Display



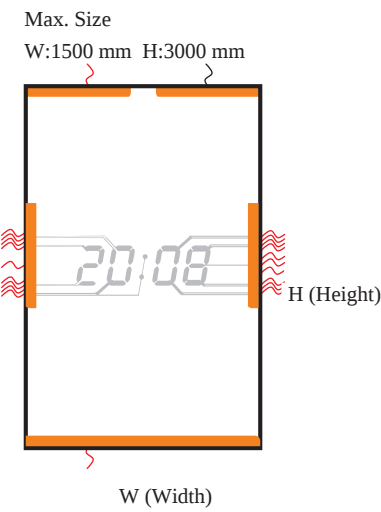
Brand Identity Display



Brand Identity Display



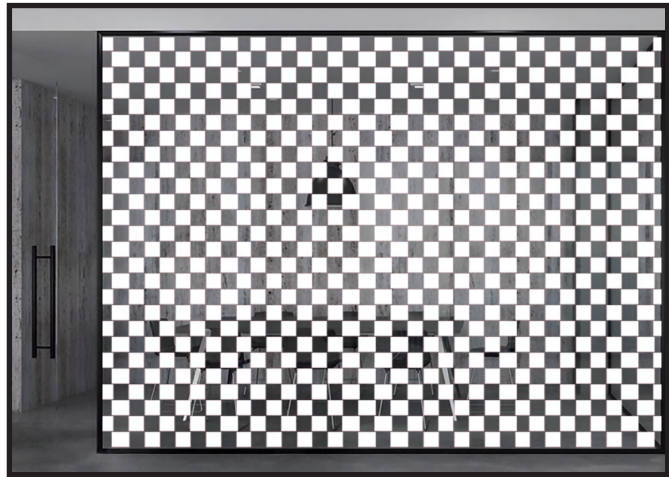
Time Display Dimming Film



Mosaic Dimming Film

In modern space decoration and functional optimisation, mosaic dimming film is coming to the fore, bringing a new experience to all kinds of spaces through its distinctive character. It blends dimming technology with mosaic pattern design, an ideal choice for elevating spatial style and meeting diverse functional needs.

MSK-50 Standard Mosaic Dimming Film



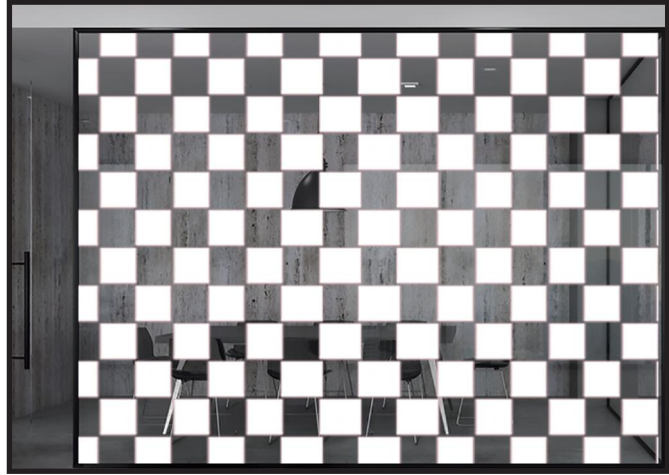
Max. Size
W:1500 mm H:3000 mm



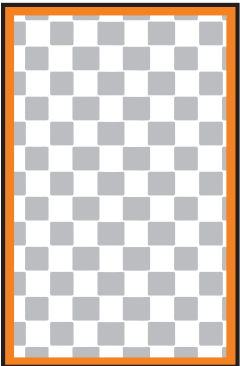
W (Width)

H (Height)

MSK-100 Standard Mosaic Dimming Film



Max. Size
W:1500 mm H:3000 mm



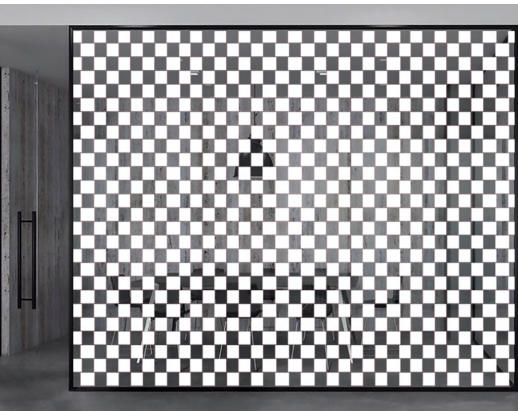
W (Width)

H (Height)

Mosaic Dimming Film Variations



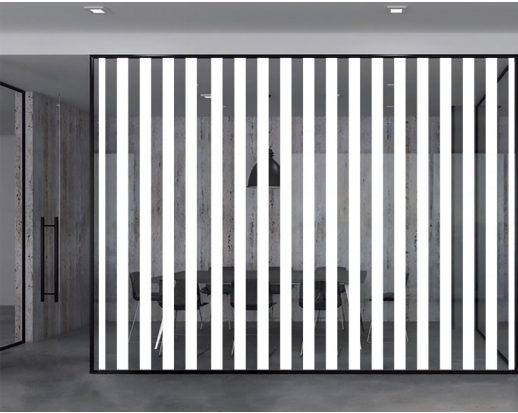
Variation 1



Variation 2



Variation 3



Variation 4



Variation 5

Star Glass Film
STAR-GLASS LED FILM

With outstanding performance and diverse applications, Star Glass Film strongly empowers the field of intelligent light and shadow. It balances spatial functionality with aesthetic needs, providing innovative solutions for architectural design, interior decoration and other industries. As technology continues to iterate and applications expand, Star Glass Film is being used ever more widely, further improving the quality of the light-and-shadow experience in daily life.

Product Features

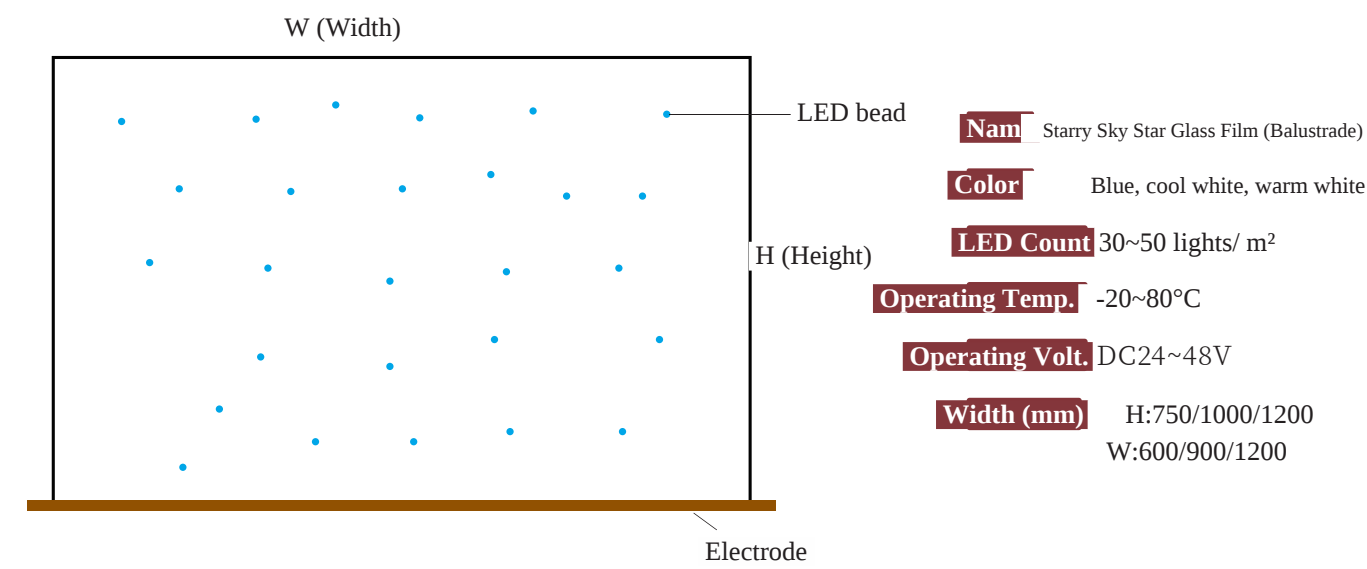
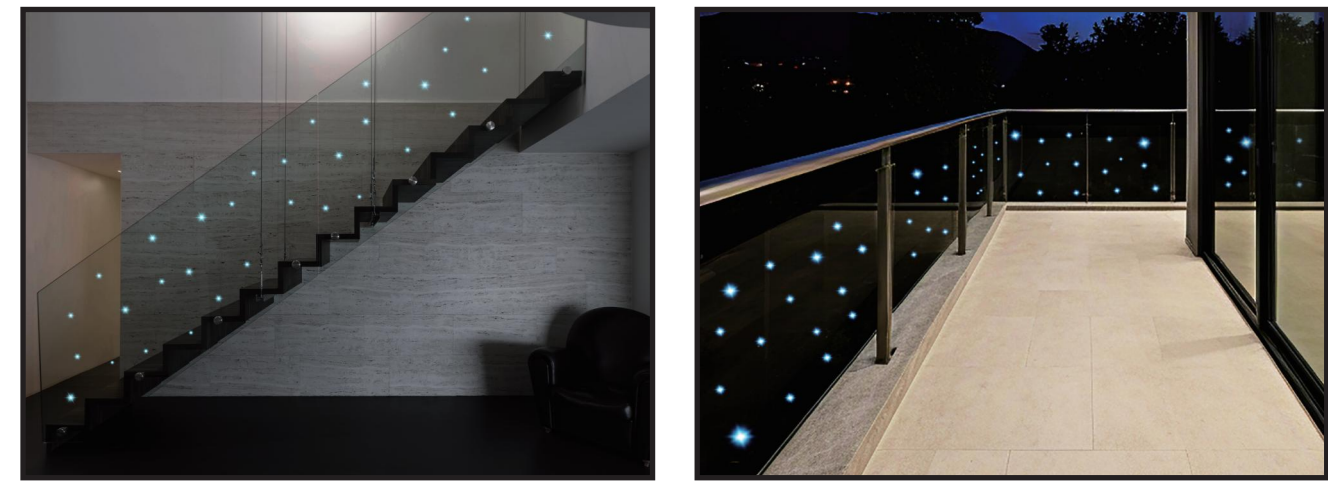
Star Glass Film is a smart film whose transparency can be switched and dynamic images displayed by voltage control. The LED beads inside are as fine as dust - barely visible even up close. When powered, the film sparkles like a starry sky while transparency is completely unaffected - crystal clear!

Selling Points

It integrates seamlessly with glass and adds new value: while keeping the original transparency, it adds decoration, wayfinding, landscape lighting and safety guidance, bringing new colour to interior and exterior spaces!

Item Name	LED Color			Max. Custom Size	LED Size	Operating Temp.	Life
	Blue	Cool white 6500-7000K	Warm white 4800-5200K	L:2900 mm W:1500 mm	0.25*0.75mm	-20°C~80°C	>80000 h
Star Glass Film							

Starry Sky Star Glass Film (Balustrade Glass)



Nam Starry Sky Star Glass Film (Balustrade)

Color Blue, cool white, warm white

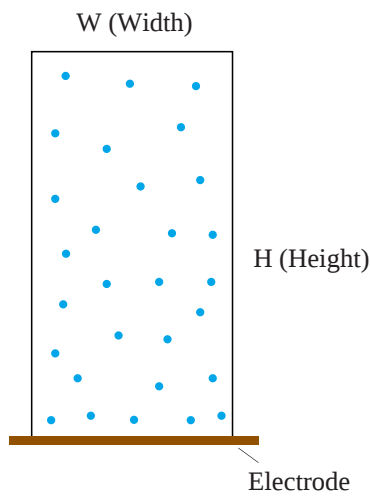
LED Count 30~50 lights/ m²

Operating Temp. -20~80°C

Operating Volt. DC24~48V

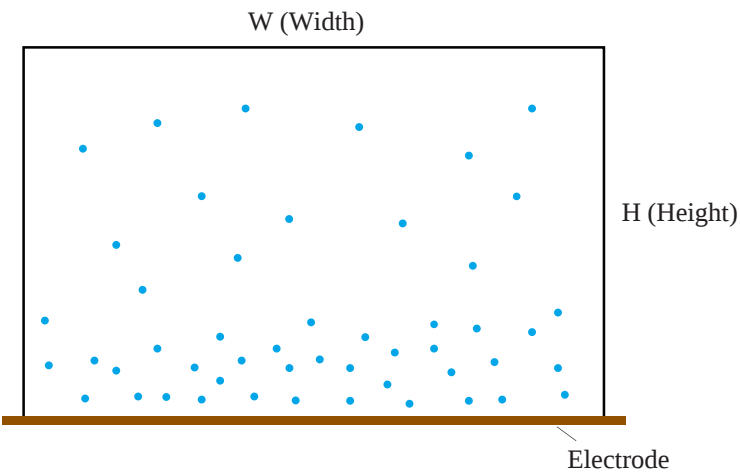
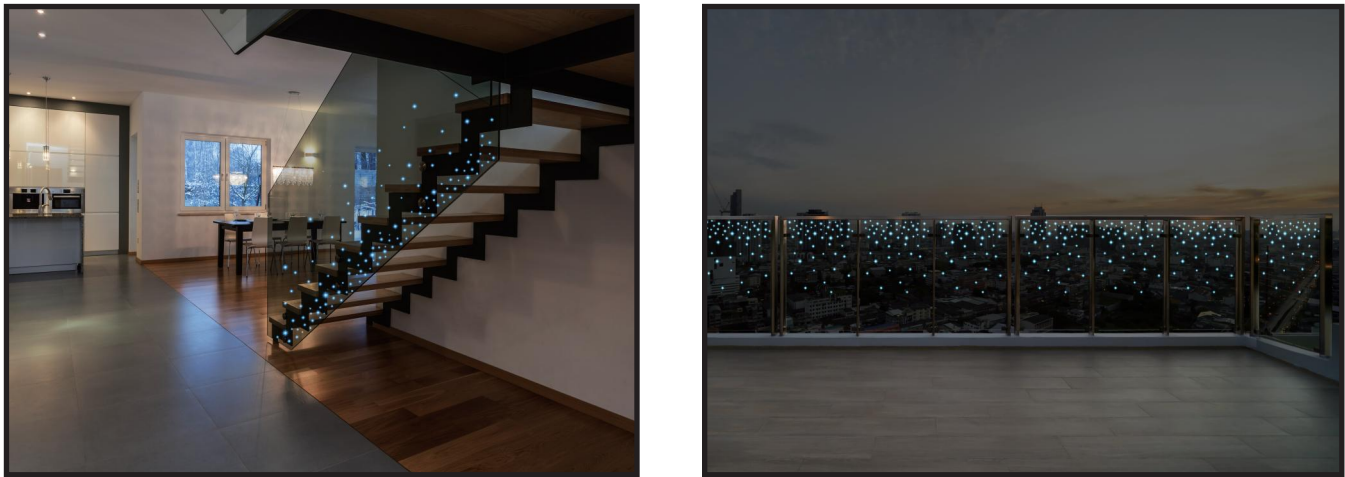
Width (mm) H:750/1000/1200
W:600/900/1200

Starry Sky Star Glass Film (Screen Glass Application)



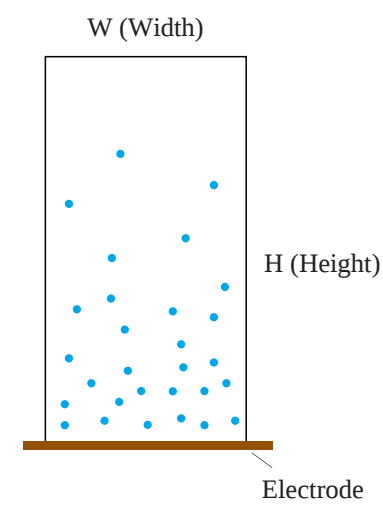
- Name** Starry Sky Star Glass Film (Screen)
- Color** Blue, cool white, warm white
- LED Count** 30~50 lights/ m²
- Operating Temp.** -20~80°C
- Operating Volt.** DC24~48V
- Width (mm)** H:2500/3000
W:600/900/1200

Gradient Star Glass Film (Balustrade Glass Application)



- Name** Gradient Star Glass Film (Balustrade)
- Color** Blue, cool white, warm white
- LED Count** 30~50 lights/ m²
- Operating Temp.** -20~80°C
- Operating Volt.** DC24~48V
- Width (mm)** H:750/1000/1200
W:600/900/1200

Gradient Star Glass Film (Screen Glass Application)



Name Starry Sky Star Glass Film (Screen)

Color Blue, cool white, warm white

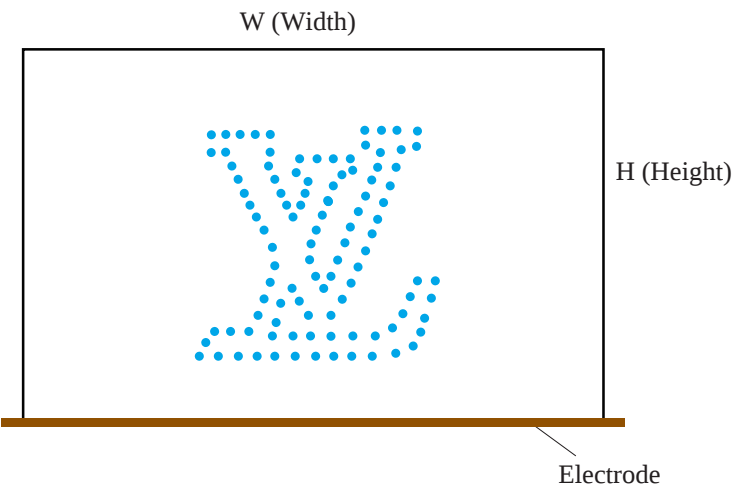
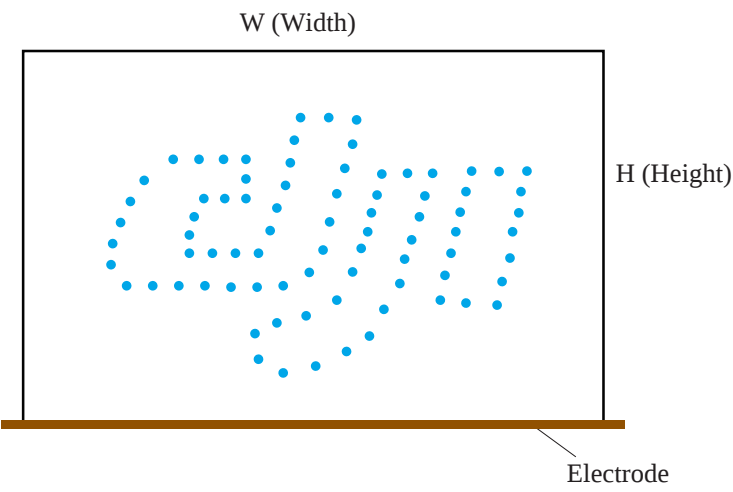
LED Count 30~50 lights/ m²

Operating Temp. -20~80°C

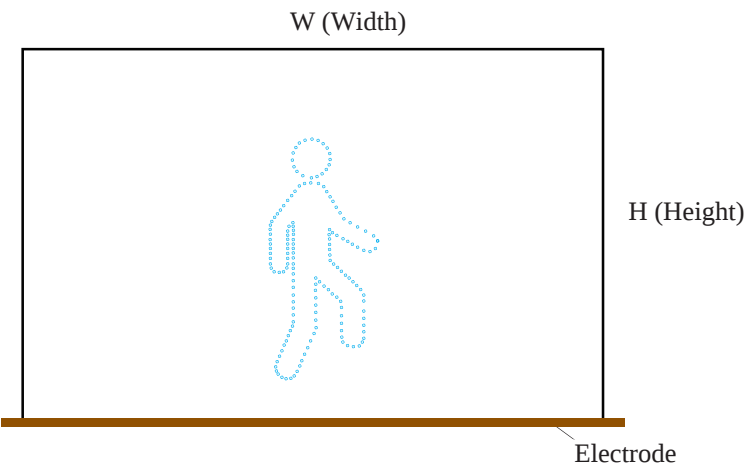
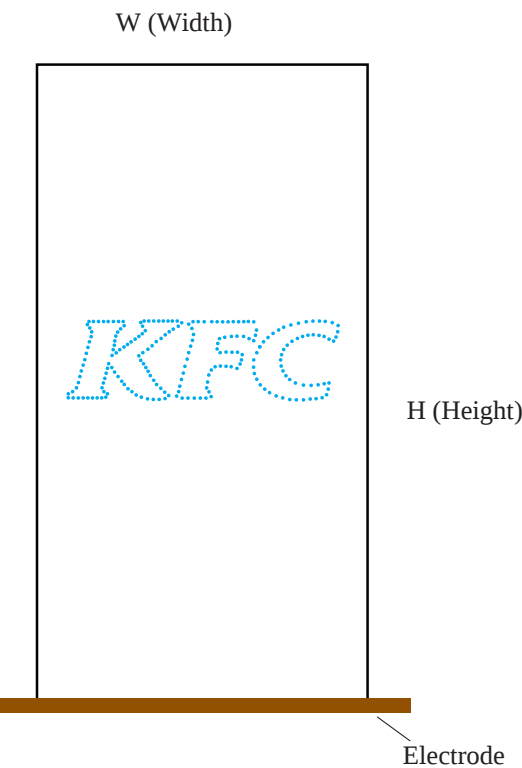
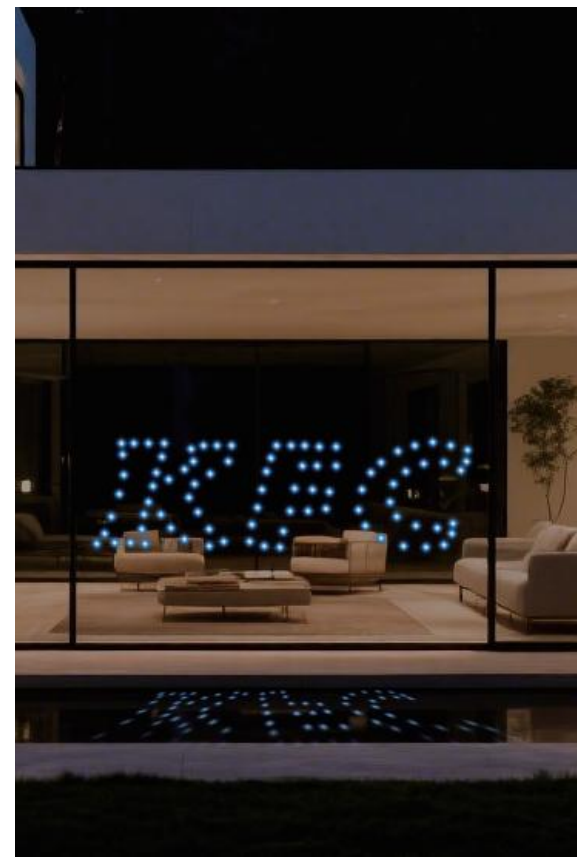
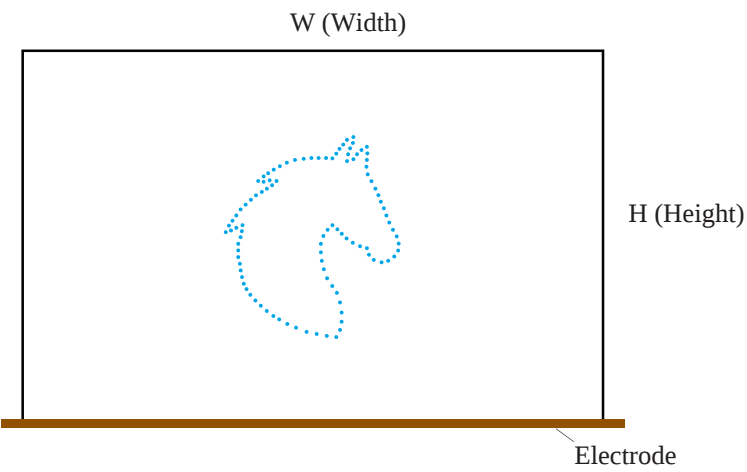
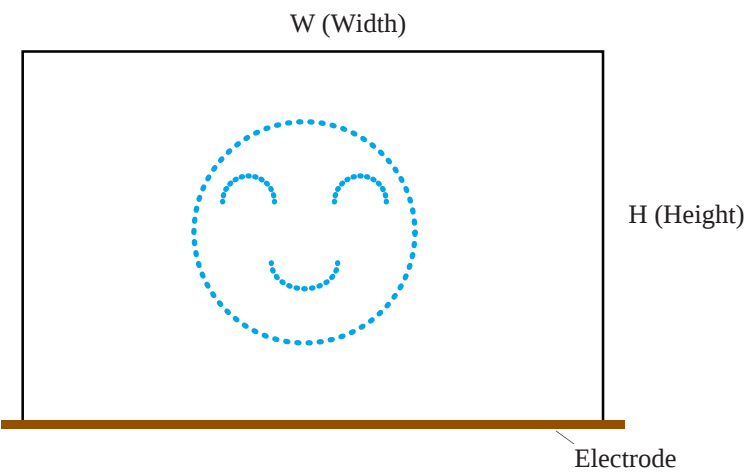
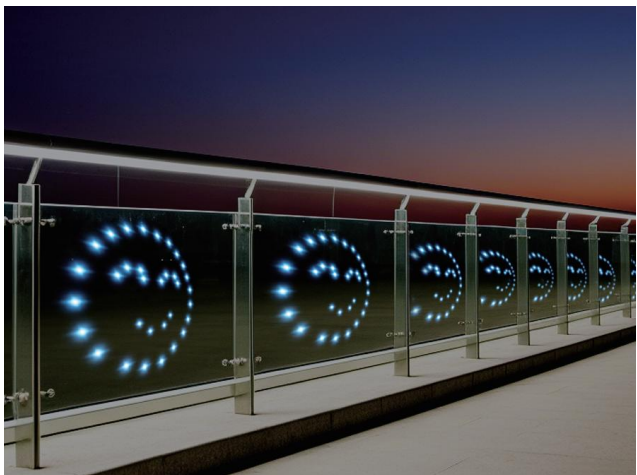
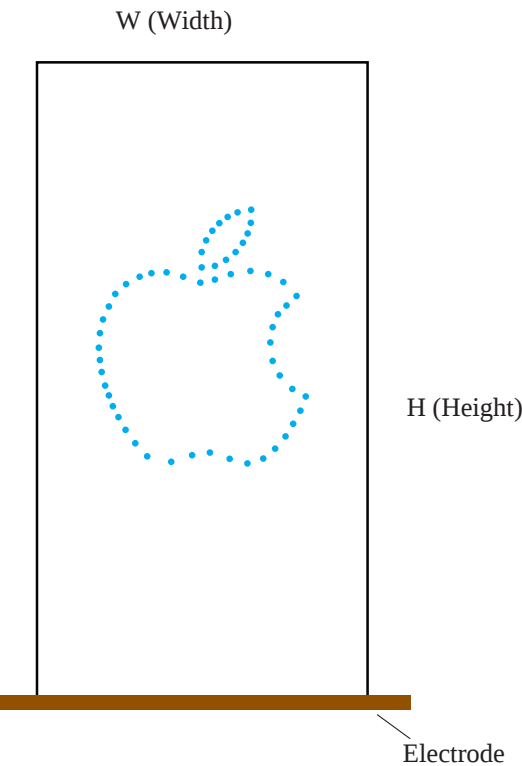
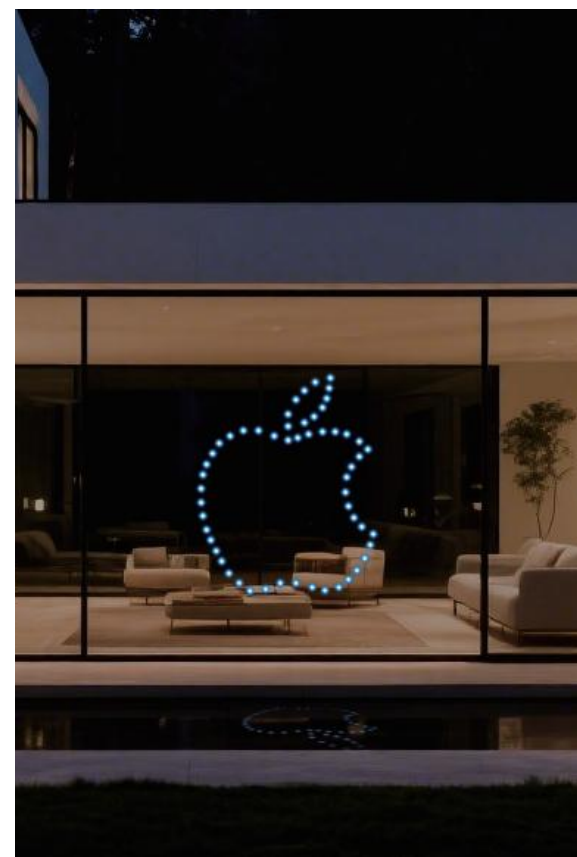
Operating Volt. DC24~48V

Width (mm) H:2500/3000
W:600/900/1200

LOGO Star Glass Film Application



Patterned Star Glass Film Application



Star Glass Film Accessories							
Product Photo	Name	Model	Dimensions (mm)	Power (W)	Input (V)	Output (V)	Coverage (m²)
	Power Supply	S50	50*30*110	50	AC100~240	DC24	≤15
	Controller	D01	55*20*120	/	DC12/24	DC24	/

Star Glass Film - Wiring Diagram

