



PREMIUM PRODUCT CATALOGUE

Transparent display and intelligent glass technologies

A verified reference to Luminera product families and supplier technical schedules for project evaluation.

PRODUCT CATALOGUE / 2026

Concept visual - not a completed Luminera installation.



ILLUSTRATIVE CONCEPT RENDERING

The portfolio at a glance

Supplier product names and technical values remain controlled against the supplied catalogue and price list.

01**Media Glass**

Architectural display glass

02**Transparent LED Film**

Flexible transparent display media

03**Switchable Glass**

Laminated PDLC privacy glass

04**Smart Film**

Adhesive and laminated intelligent film

05**AR UTD Film**

Transparent projection media

06**Advanced Systems**

VC Glass and specialist displays

07**Doors & Windows**

Integrated smart-glass systems

08**Remote Content**

Separate content-change agreement

- SELECTION GUIDE

Choose by environment, not by product name alone

Pitch, brightness, transparency, glass build-up, power, controls and viewing distance must be confirmed together.

01**Glass function**

Display, privacy, projection or thermal performance.

02**Viewing condition**

Distance, daylight, reflection and interior lighting.

03**Physical interface**

Glass size, mullions, entrances, edges and cable path.

04**Control architecture**

Player, processor, network, power and content workflow.

05**Client data**

Verified dimensions, substrate and operating requirements.

06**Commercial scope**

Product, quantity, logistics, exclusions and delivery point.

01

Media Glass

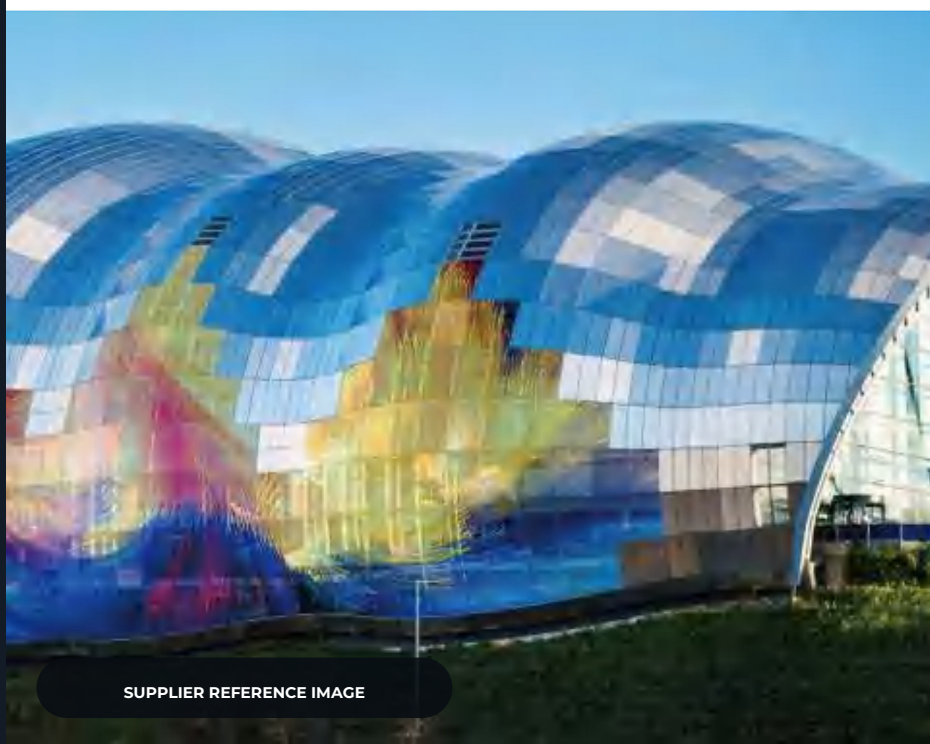
Display architecture integrated with glass for façades, premium retail and commercial spaces.



• MEDIA GLASS

Display architecture in glass

Supplier imagery and system descriptions are presented as product references, not completed Luminera installations.



SUPPLIER REFERENCE IMAGE

01

Display layer

Integrated LED display architecture.

02

Mesh-type PCB

See-through multilayer board design.

03

Glass build-up

Tempered electronic-grade glass.

04

Control system

Project-specific playback and processing.

05

Module geometry

240 mm module width; height up to 1,500 mm.

06

Project confirmation

Final performance and controls confirmed in writing.

Skyscraper Media Glass

Supplier model schedule. Module width: 240 mm; module height: up to 1,500 mm.



Model	Pitch	Brightness	Transparency	Pixel density	Average / max power
Skyscraper 01	P8 × 8	0–5,000 nits	95%	15,625 px/m ²	230 / 650 W/m ²
Skyscraper 02	P10 × 10	0–5,000 nits	95%	10,000 px/m ²	230 / 650 W/m ²
Skyscraper 03	P20 × 20	0–3,000 nits	98%	2,500 px/m ²	140 / 390 W/m ²
Skyscraper 04	P30 × 30	0–1,200 nits	98%	1,089 px/m ²	70 / 160 W/m ²
Skyscraper 05	P50 × 50	0–600 nits	99%	400 px/m ²	35 / 90 W/m ²
Skyscraper 06	P80 × 80 or more	Consultation customisation	99%	156 px/m ²	Consultation customisation

Shared platform: 1TRIG1B pixels; SMD2020; tempered glass; 65,536 grayscale levels; at least 3,840 Hz refresh; +5 VDC; viewing angle at least 160 degrees.

Luxurious Media Glass

Supplier model schedule. Module width: 240 mm; module height: up to 1,500 mm.



Model	Pitch	Brightness	Transparency	Pixel density	Average / max power
Luxurious 01	P5	0–5,000 nits	90%	40,000 px/m ²	230 / 650 W/m ²
Luxurious 02	P6	0–5,000 nits	95%	27,556 px/m ²	230 / 650 W/m ²
Luxurious 03	P8	0–5,000 nits	95%	15,625 px/m ²	230 / 650 W/m ²
Luxurious 04	P10	0–5,000 nits	95%	10,000 px/m ²	230 / 650 W/m ²
Luxurious 05	P15	0–4,000 nits	98%	4,444 px/m ²	200 / 520 W/m ²
Luxurious 06	P20	0–3,000 nits	98%	2,500 px/m ²	140 / 390 W/m ²

Shared platform: 1R1G1B pixels; SMD2020; tempered glass; 65,536 grayscale levels; at least 3,840 Hz refresh; +5 VDC; viewing angle at least 160 degrees.

02

Transparent LED Film

High-impact digital content on glass while preserving visibility, natural light and architectural intent.



ILLUSTRATIVE CONCEPT RENDERING

TRANSPARENT LED FILM

Supplier commercial pitch schedule

Commercial price-list nomenclature is retained separately from the supplier catalogue technical series.



01

P3.9

Commercial pitch option

02

P4.9

Commercial pitch option

03

P5.9

Commercial pitch option

04

P7.9

Commercial pitch option

05

P10

Commercial pitch option

06

P15

Commercial pitch option

07

P20

Commercial pitch option

08

P24

Commercial pitch option

09

P30

Commercial pitch option

• TRANSPARENT LED FILM

Invisible Series technical reference

The eight-model supplier technical series is not automatically mapped to the nine commercial pitch options.

Technical model	Pitch	Brightness	Transparency	Pixel density	Average / max power
Invisible 01	P4	0–5,000 nits	90%	62,500 px/m ²	230 / 650 W/m ²
Invisible 02	P5	0–5,000 nits	90%	40,000 px/m ²	230 / 650 W/m ²
Invisible 03	P6	0–5,000 nits	95%	27,556 px/m ²	230 / 650 W/m ²
Invisible 04	P8	0–5,000 nits	95%	15,625 px/m ²	230 / 650 W/m ²
Invisible 05	P10	0–5,000 nits	95%	10,000 px/m ²	230 / 650 W/m ²
Invisible 06	P15	0–4,000 nits	95%	4,356 px/m ²	230 / 650 W/m ²
Invisible 07	P20	0–3,000 nits	98%	2,500 px/m ²	160 / 480 W/m ²
Invisible 08	P30	0–1,200 nits	98%	1,089 px/m ²	100 / 260 W/m ²

- TRANSPARENT LED FILM

Functional characteristics

Supplier-stated characteristics; final configuration remains project-specific.

01

Ultra-thin

Conventional flat film under 2.5 mm; customised under 1.5 mm as stated.

02

Transparency

Approx. 50-90% physical transparency depending on pitch; supplier also describes distance-based visual transparency.

03

Brightness

Conventional 3,000 cd/m², high-brightness 5,000 cd/m² and custom values above 7,000 cd/m².

04

Serviceability

Replaceable protective film and sectional replacement are described.

05

Control

Mobile/computer control with internal storage, USB or synchronised content support.

06

Environment

Flexible organic-resin substrate; technical-series working range -20°C to 50°C.

TRANSPARENT LED FILM

Application principles

Use the glass as media without losing its spatial role.

01

Viewing distance

Select pitch around the audience distance.

02

Ambient light

Confirm brightness against daylight and reflection.

03

Content geometry

Design around mullions, entrances and clear zones.

04

Infrastructure

Plan power, control, network and access.

05

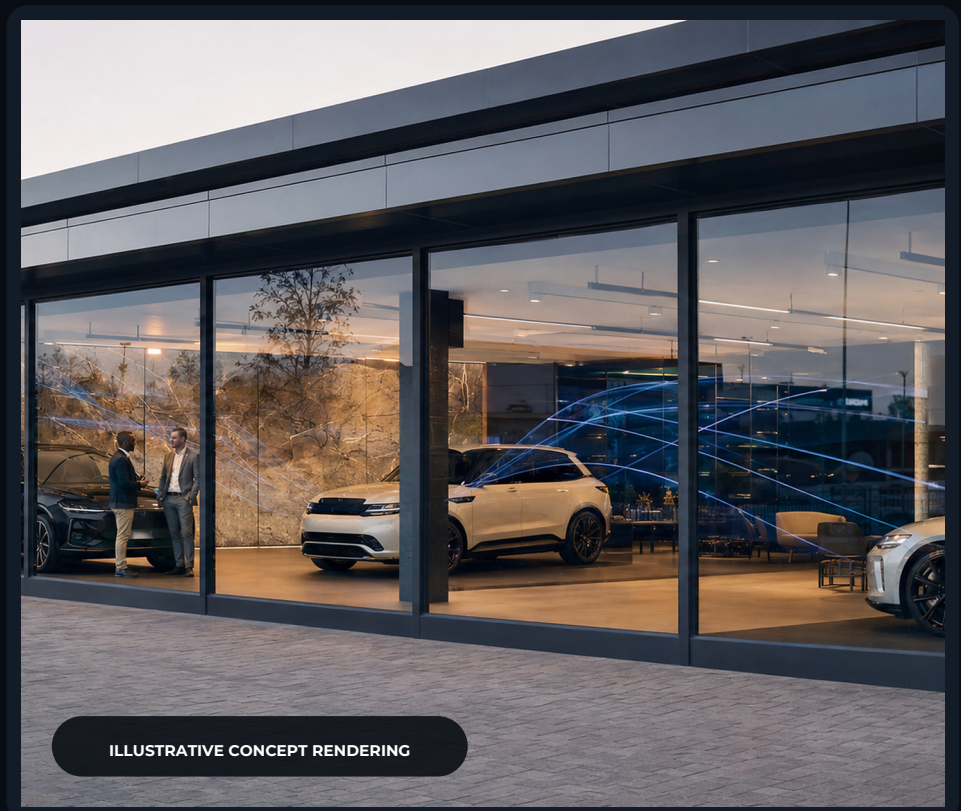
Compliance

Client professionals confirm site and statutory requirements.

06

Pilot

Validate optical performance before a multi-site rollout.



03

Switchable Glass

Laminated PDLC glass that moves between transparent and privacy states for architectural applications.



ILLUSTRATIVE CONCEPT RENDERING

• SWITCHABLE GLASS

Standard Series

Supplier-stated glass model, PDLC film, optical values and maximum sizes.

Glass model	PDLC film	Haze on / off	Transmittance on / off	Maximum size
0404	085	6% / 94%	79% / 67%	1,800 × 2,400 mm
0404	087	4% / 94%	80% / 68%	1,800 × 2,400 mm
0404	091	3% / 94%	83% / 70%	1,800 × 2,400 mm
0505	085	6% / 94%	80% / 67%	2,000 × 2,800 mm
0505	087	4% / 94%	81% / 68%	2,000 × 2,800 mm
0505	091	3% / 94%	84% / 72%	2,000 × 2,800 mm
0606	085	6% / 94%	79% / 67%	2,000 × 3,000 mm
0606	087	4% / 94%	80% / 68%	2,000 × 3,000 mm
0606	091	3% / 94%	83% / 70%	2,000 × 3,000 mm

Glass model	PDLC film	Haze on / off	Transmittance on / off	Maximum size
0808	085	6% / 94%	78% / 64%	2,000 × 4,000 mm
0808	087	4% / 94%	79% / 65%	2,000 × 4,000 mm
0808	091	3% / 94%	82% / 68%	2,000 × 4,000 mm
1010	085	6% / 94%	69% / 55%	2,000 × 5,000 mm
1010	087	4% / 94%	70% / 56%	2,000 × 5,000 mm
1010	091	3% / 94%	73% / 59%	2,000 × 5,000 mm
1212	085	6% / 94%	65% / 49%	2,000 × 6,000 mm
1212	087	4% / 94%	66% / 50%	2,000 × 6,000 mm
1212	091	3% / 94%	67% / 51%	2,000 × 6,000 mm

• SWITCHABLE GLASS

Plus Series

Supplier-stated glass model, PDLC film, optical values and maximum sizes.

Glass model	PDLC film	Haze on / off	Transmittance on / off	Maximum size
0404 Plus	085	6% / 94%	82% / 70%	1,800 × 2,400 mm
0404 Plus	087	4% / 94%	83% / 71%	1,800 × 2,400 mm
0404 Plus	091	3% / 94%	87% / 75%	1,800 × 2,400 mm
0505 Plus	085	6% / 94%	81% / 69%	2,000 × 2,800 mm
0505 Plus	087	4% / 94%	82% / 70%	2,000 × 2,800 mm
0505 Plus	091	3% / 94%	86% / 74%	2,000 × 2,800 mm
0606 Plus	085	6% / 94%	81% / 68%	2,000 × 3,000 mm
0606 Plus	087	4% / 94%	82% / 69%	2,000 × 3,000 mm
0606 Plus	091	3% / 94%	86% / 72%	2,000 × 3,000 mm

Glass model	PDLC film	Haze on / off	Transmittance on / off	Maximum size
0808 Plus	085	6% / 94%	81% / 67%	2,000 × 4,000 mm
0808 Plus	087	4% / 94%	82% / 68%	2,000 × 4,000 mm
0808 Plus	091	3% / 94%	84% / 71%	2,000 × 4,000 mm
1010 Plus	085	6% / 94%	80% / 64%	2,000 × 5,000 mm
1010 Plus	087	4% / 94%	81% / 65%	2,000 × 5,000 mm
1010 Plus	091	3% / 94%	85% / 67%	2,000 × 5,000 mm
1212 Plus	085	6% / 94%	80% / 61%	2,000 × 6,000 mm
1212 Plus	087	4% / 94%	81% / 62%	2,000 × 4,000 mm
1212 Plus	091	3% / 94%	84% / 65%	2,000 × 6,000 mm

ADVANCED GLASS

Specialist architectural glass families

Project-specific products require approved build-up, dimensions and manufacturer confirmation.

01

Smart Facade Glass

Switchable functionality for
façade-oriented applications.

02

Art Glass

Decorative and expressive
intelligent-glass applications.

03

Limited Edition Glass

Customised smart-glass content and
patterns.

04

VC Glass

Vacuum-insulated glass for thermal and
acoustic performance.

VC-GLASS

Vacuum-Insulated Glass

Insulation Performance

Like a vacuum bottle, its thermal insulation performance is superior. Vacuum-insulating glass, can effectively reduce the heat transfer between indoor and outdoor temperature difference.

Can reach **0.27**
Solar heat gain coefficient (SHGC)

Can reach **0.66**
Sunshade coefficient (SC)

Save 50%
Save 50% on air conditioning costs

Block UV
Resistance to UV radiation

Block heat 95%
Thermal insulation performance reaches 95%

SUPPLIER REFERENCE IMAGE

04

Smart Film

Self-adhesive and laminated liquid-crystal films for privacy, projection and specialist environments.



ILLUSTRATIVE CONCEPT RENDERING

- SMART FILM

Core product family

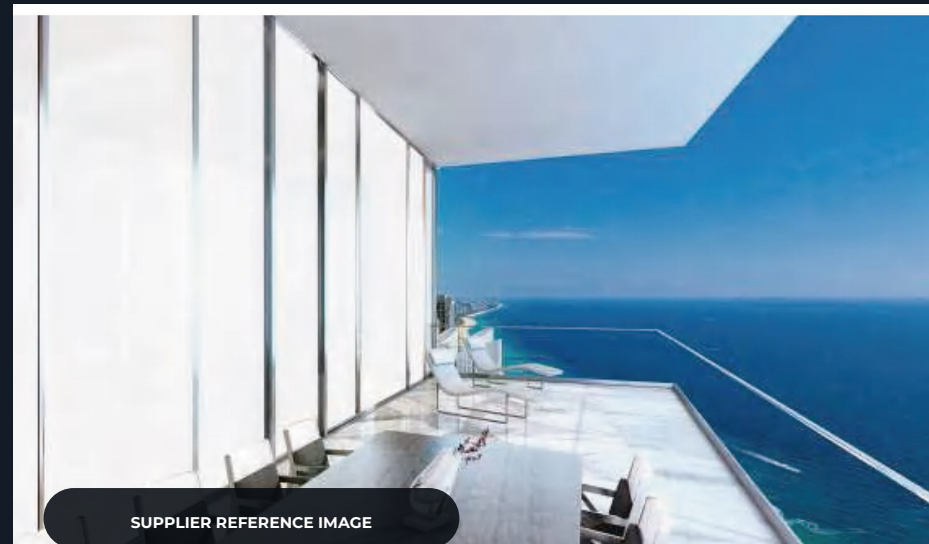
Verified key parameters from the supplier catalogue. Full optical tables remain project-specific.

Product	Construction	Total thickness	Operating voltage	Power	Operating temperature
FILMBASE 091	Adhesive / laminated PDLC	0.47 / 0.38 mm	60 V	5 W/m ²	–30°C to 50°C
FILMBASE 087	Adhesive / laminated PDLC	0.47 / 0.38 mm	60 V	5 W/m ²	–30°C to 50°C
FILMBASE 085	Adhesive / laminated PDLC	0.47 / 0.38 mm	60 V	5 W/m ²	–30°C to 50°C
FILMBASE Warrior	Adhesive PDLC	0.47 mm	60 V	5 W/m ²	–30°C to 90°C
FILMBASE Reverse	Adhesive / laminated PNLC	0.37 / 0.28 mm	60 V	Confirm per project	–30°C to 50°C
FILMBASE Limited Edition	Adhesive / laminated PDLC	0.47 / 0.38 mm	60 V	5 W/m ²	–30°C to 50°C
FILMBASE Colorful	Adhesive / laminated PDLC	0.47 / 0.38 mm*	60 V	5 W/m ²	–30°C to 50°C
FILMBASE Auto Smart Film	Automotive PDLC	0.43 mm total	60 V	5 W/m ²	–30°C to 95°C

• SMART FILM

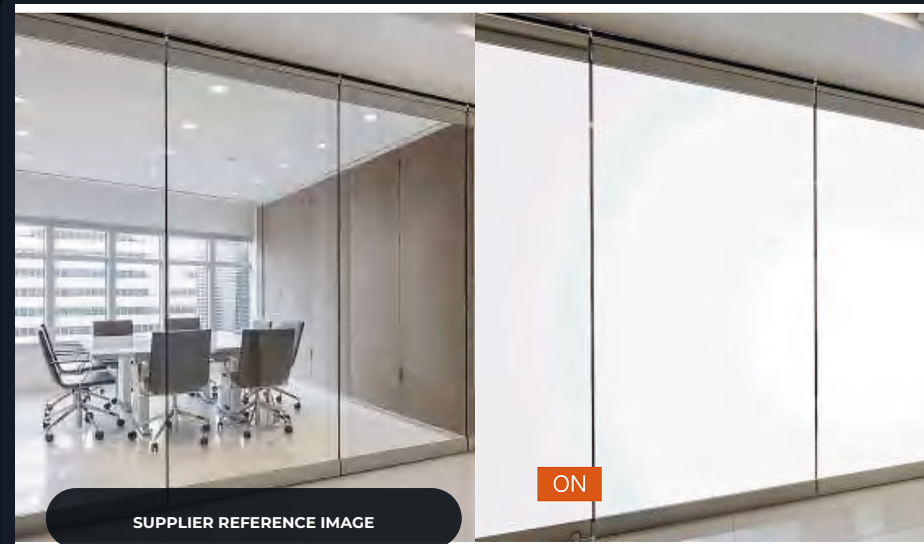
Warrior and Reverse

Specialist operating profiles for high-temperature PDLC and reverse-state PNLC applications.



SUPPLIER REFERENCE IMAGE

WARRIOR / High-temperature adhesive PDLC; supplier operating range -30°C to 90°C; width up to 1,500 mm.



SUPPLIER REFERENCE IMAGE

REVERSE / PNLC construction clear when power is off and opaque when power is on; adhesive and laminated formats.

• SMART FILM

Bespoke and automotive families

Supplier-listed graphics, colour and vehicle-glazing options.

01

Limited Edition

Custom content, graphics or patterns; supplier cut-to-sheet limit below 1,500 x 1,500 mm.

02

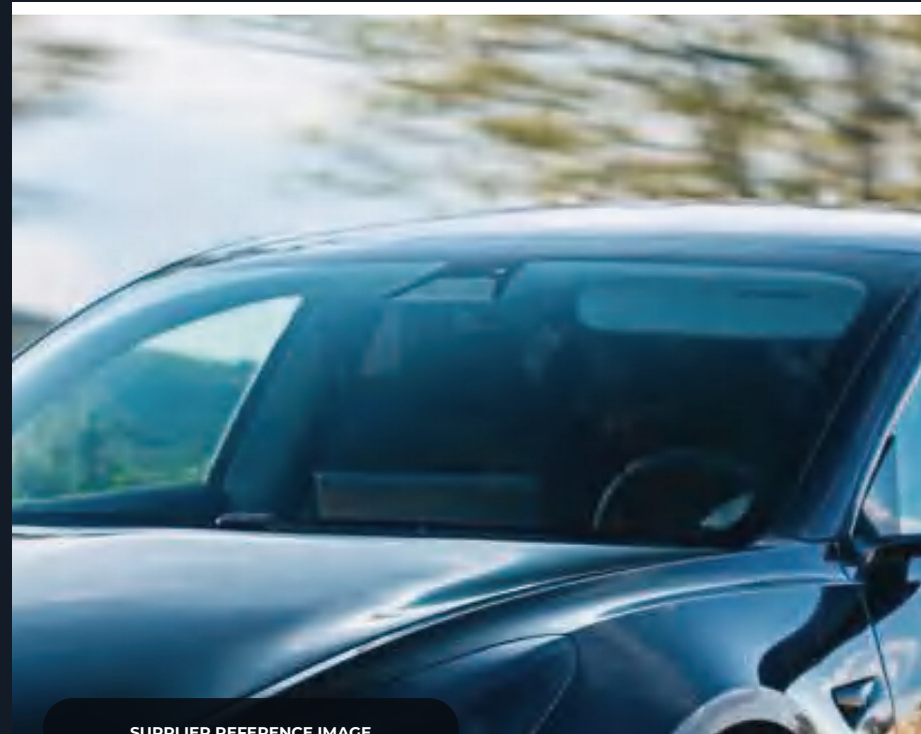
Colorful

Grey adhesive/laminated PDLC plus black, blue, green, orange and red adhesive options.

03

Auto Smart Film

0.43 mm construction; 60 V; at most 5 W/m²; supplier operating range -30°C to 95°C.



SUPPLIER REFERENCE IMAGE

05

AR UTD Film

Ultra-thin transparent projection media for museums, exhibitions, reception spaces and performance environments.



ILLUSTRATIVE CONCEPT RENDERING

- AR UTD FILM

Shared technical platform

Five supplier-listed formats with a common platform and project-specific projection requirements.

Product	Typical setting	Thickness	Width	Haze	Transmittance	Resolution
Flexible Lifting Screen	Exhibitions, performance, hospitality	0.2 mm	1,320 mm	<2.0%	>70%	Up to 8K
Naked-eye AR Screen	Museums and science centres	0.2 mm	1,320 mm	<2.0%	>70%	Up to 8K
Theme Transparent Screen	Hotels, restaurants and venues	0.2 mm	1,320 mm	<2.0%	>70%	Up to 8K
Perspective Dance Screen	Stage and performance	0.2 mm	1,320 mm	<2.0%	>70%	Up to 8K
Transparent Image Wall	Corporate and government reception	0.2 mm	1,320 mm	<2.0%	>70%	Up to 8K

170°

VIEWING ANGLE

-20-60°C

OPERATING

35-75%

STORAGE RH

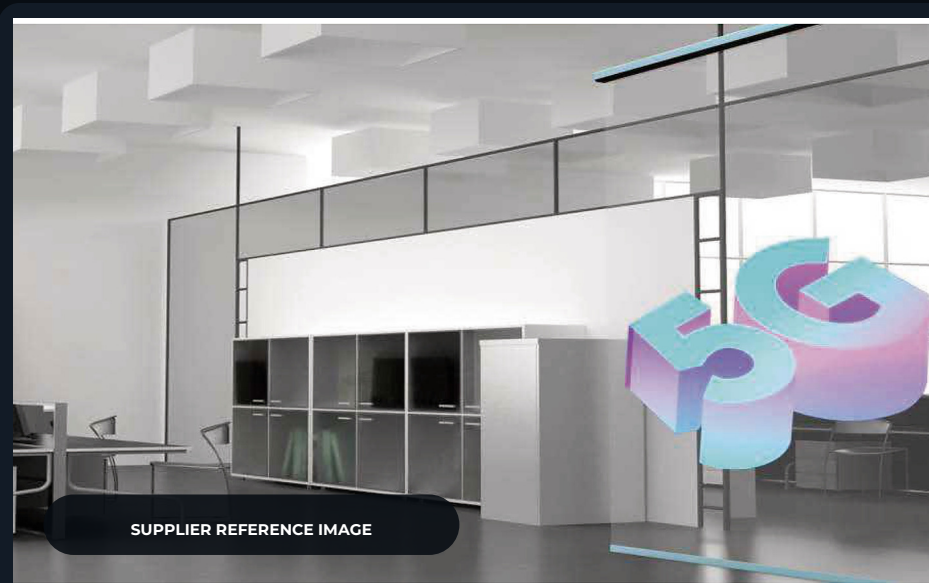
Up to 8K

RESOLUTION

• AR UTD FILM

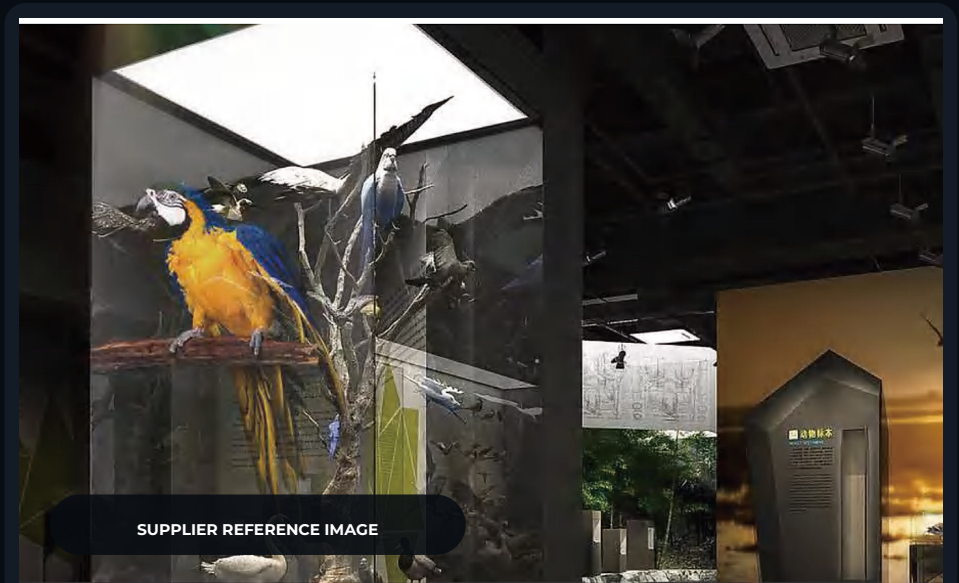
Application formats

Each format aligns to a different spatial, mounting and content requirement.



Flexible Lifting Screen

Perspective Dance Screen



Naked-eye AR Screen

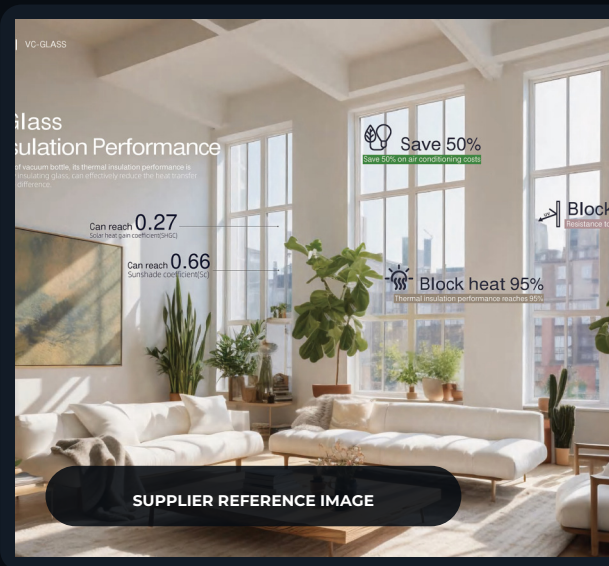
Transparent Image Wall

Theme Transparent Screen

ADVANCED DISPLAY

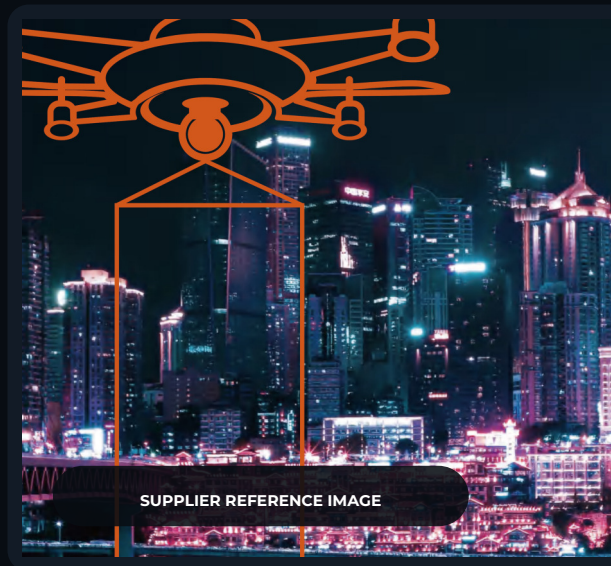
Specialist supplier concepts

Availability, approvals and operating controls require written project confirmation.



VC Glass

Thermal and acoustic vacuum-insulated glass.



Flying Display

Ultra-light transparent aerial display concept.



Self-Electricity LED Film

Supplier-described solar self-powered display unit.

06

Smart Doors & Windows

PDLC glass integrated with architectural door, partition and window systems.



ILLUSTRATIVE CONCEPT RENDERING

• SMART DOORS & WINDOWS

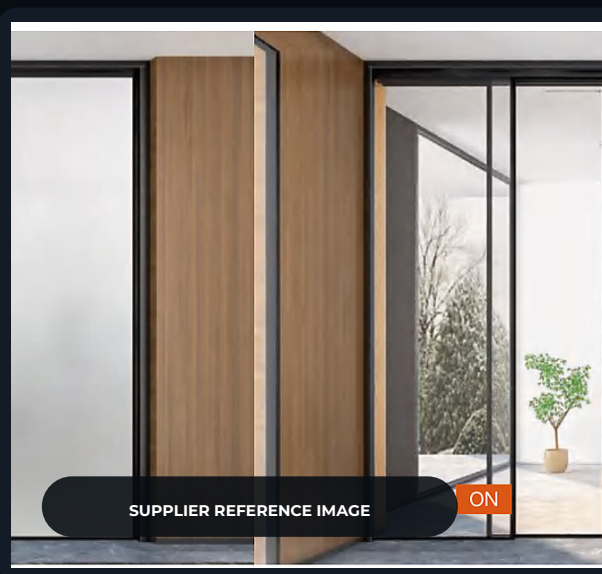
Door and partition systems

Supplier product photography and key dimensional descriptions retained as reference information.



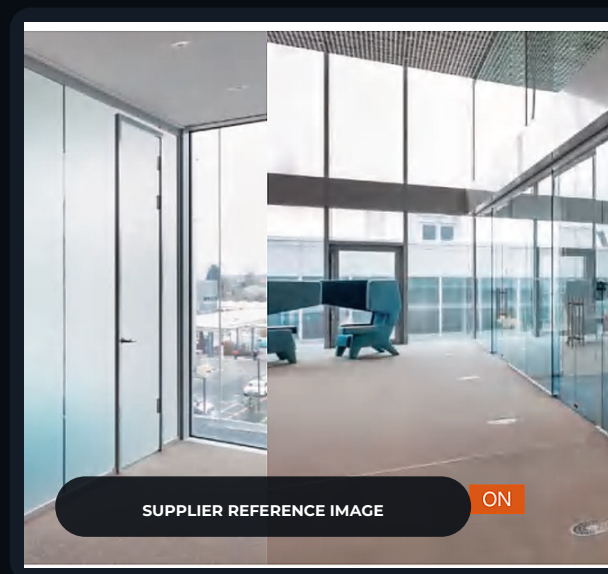
73-65 Folding Door

2.0 mm wall; 73 mm frame; 65 mm opening fan. Height up to 3,5 m; movable fan width within 1 m.



Minimalist Sliding Door

2.0 mm wall; single / two / three-track frames; 49 / 95 / 141 mm. Movable fan up to 2,800 x 1,500 mm.



83-Panoramic Partition

2.0 mm wall; 83 mm frame. Module width within 1,500 mm; wall height within 3,500 mm.

• SMART DOORS & WINDOWS

Integrated window systems

Supplier-listed window systems. Glass build-up, colour, opening direction, hardware and final dimensions require written project confirmation.



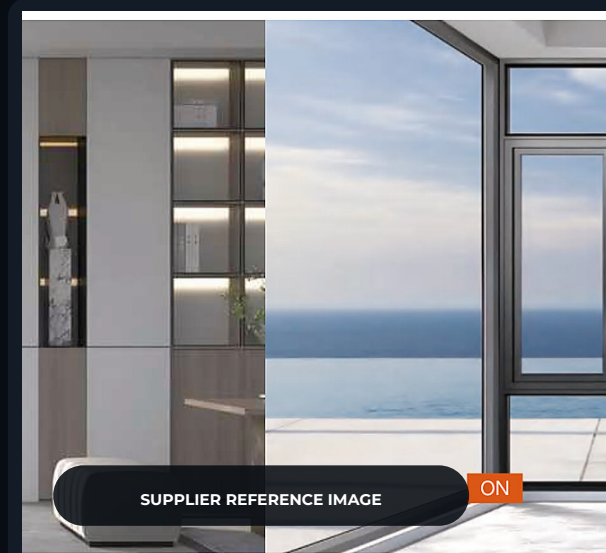
120 Window Screen Integrated

1.8 mm wall; 120 mm frame; 70 mm opening fan. Open fan up to 1,500 x 750 mm.



113 Window Screen Integrated

2.0 mm wall; 113 mm frame; 70 mm opening fan. Open fan up to 1,500 x 750 mm.



70 Broken-Bridge Casement Window

2.0 mm wall; 70 mm frame; 75 mm opening fan. Fan up to 1,500 x 750 mm.

• COMMERCIAL SCOPE

Product supply only

Luminera does not provide site or installation services. The responsibility boundary is stated on every formal quotation.

Scope item	Status	Responsibility
Product guidance	Included	Based on client-supplied dimensions and requirements
Manufacturer confirmation	Included	Exact model and configuration before order
Product supply	Quoted	Limited to signed quotation
Remote content changes	Separate agreement	R2,000 per site / month; remote only
Site survey and measurement	Not offered	Client / appointed professional
Engineering and approvals	Not offered	Client / appointed professional
Installation and commissioning	Not offered	Client-appointed contractors



PRODUCT CATALOGUE

Technology selected with discipline

Every binding product scope is confirmed through the applicable supplier model, project datasheet and formal Luminera quotation.

PRODUCT CATALOGUE / 2026

ILLUSTRATIVE CONCEPT RENDERING

Concept visual - not a completed Luminera installation.