

Smart Glass. Custom Configurations.

Eight engineered build paths beyond the SG-01 standard.

Coloured · Printed · DGU · Skylight · Logo cut · Curved · Multi-zone

**ARCHITECT + SPECIFIER REFERENCE · ENGINEERING DRAWINGS ·
SPEC LINES**

Custom Configurations Catalogue · Smart Glass Systems

PVS-SGS-CAT-CONFIGS-01 · Rev 1.0 · Issued 2026-05-11

Companion to the SG-01 standard datasheet and LG-01/LG-02 product set.

How to use this catalogue.

Each path is one engineered modification of the SG-01 standard build.

PRIVASEE® Smart Glass starts with one standard build (SG-01): tempered low-iron 6 mm outer pane · 0.8 mm EVA · 0.4 mm FM-T91 PDLC active film · 0.8 mm EVA · tempered low-iron 6 mm inner pane. Total 14.0 mm nominal, 13.82 mm factory measured. This catalogue documents the eight engineered paths a project brief can take from that standard.

Each configuration is shown on its own page: A · What changes vs the standard, B · Layer composition, C · Performance / spec impact, D · Where it fits, E · Architect spec line ready to drop into a project specification.

The 8 build paths.

| § | Configuration | What changes | Best for |
|----|-------------------------|---|--|
| 01 | Coloured substrates | Outer pane swapped for tinted / bronze / grey / blue tempered glass | Façade aesthetic · architectural colour palette |
| 02 | Printed — ceramic frit | Factory-baked ceramic frit pattern on inner face of outer pane | Permanent durable patterns · solar control · privacy graphics |
| 03 | Printed — digital UV | Full-colour custom UV-cured printed graphic on inner glass face | Branded interiors · feature walls · photographic imagery |
| 04 | DGU façade (insulating) | Smart Glass assembly used as the inner leaf of a sealed DGU unit | External façades · curtain wall · thermal-insulating exteriors |
| 05 | Skylight overhead | Asymmetric thicker outer + structural-rated build for sloped / overhead | Skylights · roof glazing · overhead structural openings |
| 06 | Custom shape / logo cut | Bespoke panel geometry with cut-out features and edge routing | Branded shapes · door handle apertures · logo cut-outs |
| 07 | Curved laminated | Both panes bent to a matched radius before lamination | Curved partitions · concave / convex walls · cylindrical façades |
| 08 | Multi-zone / jumbo | Single panel sub-divided into independently switching zones | Large panels · per-zone privacy · meeting-room mode switching |

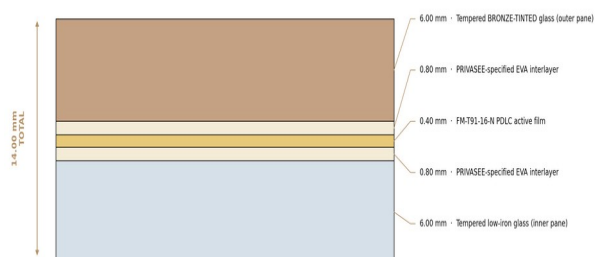
How to brief PRIVASEE for a custom project

Send (1) panel schedule W × H × count, (2) installation context — façade / overhead / framed / interior, (3) architect spec lines, (4) project programme. Engineering returns a routed configuration + indicative quote within 2 working days. engineering@privasee.uk

§01 Coloured substrates.

Outer pane in tinted, bronze, grey, blue or other architectural colour.

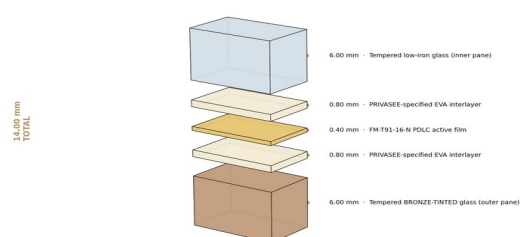
COLOURED · Bronze-Tinted Outer Pane Variant



Engineering cross-section - proportional - all dimensions in mm - PRIVASEE® Smart Glass Systems

2D engineering cross-section

COLOURED · 3D Isometric Exploded · Bronze-Tinted Outer Pane



3D isometric exploded view - proportional - all dimensions in mm - PRIVASEE® Smart Glass Systems

3D isometric exploded view

A. What changes vs the SG-01 standard build

The outer 6 mm tempered low-iron pane of the SG-01 standard is replaced with a tempered tinted or coloured pane to match the architectural palette. The inner pane remains low-iron to preserve the clear-state colour neutrality of the PDLC active film when switched on. Bronze, grey, blue, and other tints are sourced as tempered float — typical thickness 6 mm to match the standard build.

B. Layer composition

| Layer | Material | Thickness |
|--------------|--|-----------|
| Outer pane | Tempered tinted glass (bronze / grey / blue) | 6.0 mm |
| Interlayer 1 | PRIVASEE-specified EVA | 0.8 mm |
| Active film | FM-T91 PDLC active film | 0.4 mm |
| Interlayer 2 | PRIVASEE-specified EVA | 0.8 mm |
| Inner pane | Tempered low-iron glass | 6.0 mm |

C. Performance / spec impact

| Property | Impact vs SG-01 standard |
|---------------------|--|
| VLT clear | Reduced — depends on tint depth (project-specific) |
| VLT opaque | ≥ 80 % (unchanged) |
| Haze clear / opaque | ≤ 2.5 % / ≥ 99 % (unchanged) |
| Switching | < 1 s clear ↔ opaque (unchanged) |
| Solar / thermal | Improved — tinted outer reduces direct solar gain |
| Compliance | BS EN 14449 · EN 12150 · BS 6206 (unchanged) |

D. Where it fits

- Façade aesthetic continuity where existing glazing is bronze or grey-tinted.
- Hospitality interiors where the colour palette specifies tinted glass.
- Architectural feature walls in offices and showrooms.
- Solar-control applications where reducing direct daylight gain is part of the brief.

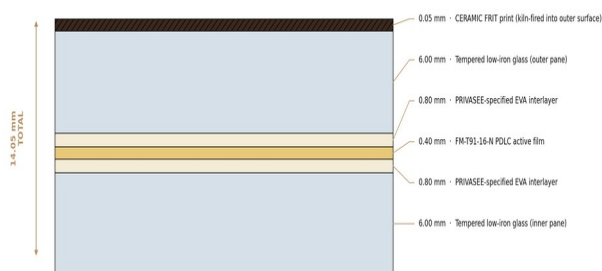
E. Architect spec line

“Switchable PDLC laminated glass to PRIVASEE® SG-01-COLOURED — outer pane tempered [bronze / grey / blue] 6 mm · PRIVASEE-specified EVA 0.8 mm · FM-T91 PDLC active film 0.4 mm · EVA 0.8 mm · tempered low-iron inner pane 6 mm · total 14.0 mm nominal · compliant with BS EN 14449, EN 12150, BS 6206.”

§02 Printed — ceramic frit.

Factory-baked ceramic frit pattern on the inner face of the outer pane.

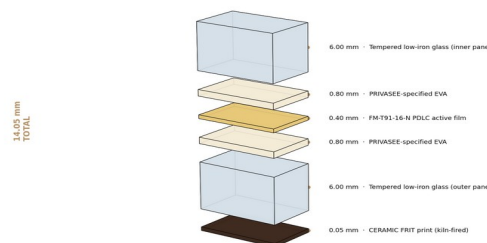
PRINTED · Ceramic Frit (Kiln-Fired Surface) + PDLC Smart Glass



Engineering cross-section - proportional - all dimensions in mm - PRIVASEE® Smart Glass Systems

2D engineering cross-section

PRINTED · 3D Isometric Exploded · Ceramic Frit (Kiln-Fired)



3D isometric exploded view - proportional - all dimensions in mm - PRIVASEE® Smart Glass Systems

3D isometric exploded view

A. What changes vs the SG-01 standard build

A ceramic frit pattern is screen-printed onto the inner face of the outer pane and permanently baked into the glass surface during tempering. The print sits between the outer pane and the EVA interlayer — fully protected from cleaning and weathering. Pattern density (dot / line / gradient) is project-specific and engineered with the architect.

B. Layer composition

| Layer | Material | Thickness |
|--------------|---|-----------|
| Outer pane | Tempered low-iron glass + ceramic frit print (inner face) | 6.0 mm |
| Interlayer 1 | PRIVASEE-specified EVA | 0.8 mm |
| Active film | FM-T91 PDLC active film | 0.4 mm |
| Interlayer 2 | PRIVASEE-specified EVA | 0.8 mm |
| Inner pane | Tempered low-iron glass | 6.0 mm |

C. Performance / spec impact

| Property | Impact vs SG-01 standard |
|------------|---|
| VLT clear | Reduced — depends on frit coverage (project-specific) |
| VLT opaque | ≥ 80 % (unchanged — frit dominates) |
| Haze clear | Pattern-dependent (frit print) |
| Switching | < 1 s clear ↔ opaque (unchanged) |
| Durability | Print baked into glass — fully protected, no wear |
| Compliance | BS EN 14449 · EN 12150 · BS 6206 (unchanged) |

D. Where it fits

- Solar-control patterns in façades — gradient frit at the head reducing solar gain.
- Privacy graphics that are permanent, durable, and integrated into the assembly.
- Branded perimeter patterns in retail and hospitality.
- Manifestation marking on full-height glazing per safety regulations.

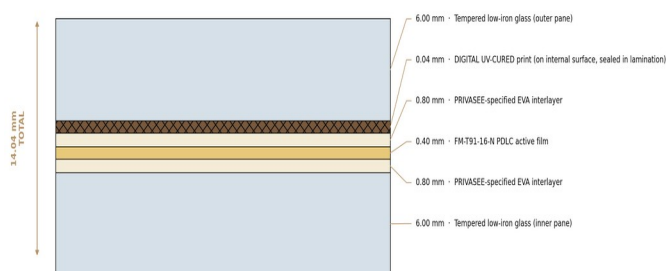
E. Architect spec line

“Switchable PDLC laminated glass to PRIVASEE® SG-01-FRIT — tempered low-iron outer pane 6 mm with ceramic frit print to architect’s pattern on inner face · EVA 0.8 mm · FM-T91 PDLC active film 0.4 mm · EVA 0.8 mm · tempered low-iron inner pane 6 mm · total 14.0 mm nominal · compliant with BS EN 14449, EN 12150, BS 6206.”

§03 Printed — digital UV.

Full-colour custom UV-cured graphic on the inner face of the outer pane.

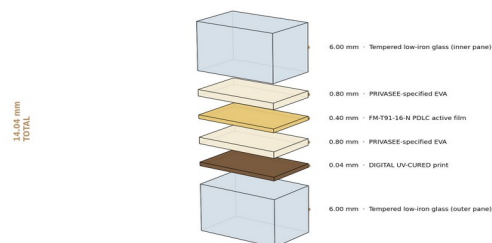
PRINTED · Digital UV-Cured Print + PDLC Smart Glass



Engineering cross-section - proportional - all dimensions in mm - PRIVASEE® Smart Glass Systems

2D engineering cross-section

PRINTED · 3D Isometric Exploded · Digital UV-Cured (Internal Surface)



3D isometric exploded view - proportional - all dimensions in mm - PRIVASEE® Smart Glass Systems

3D isometric exploded view

A. What changes vs the SG-01 standard build

A high-resolution full-colour graphic is digitally printed on the inner face of the outer pane using UV-cured glass ink and laminated permanently inside the assembly. Any image, logo, photograph, or pattern can be specified — the print is protected by the lamination and never touches air, fingerprints, or cleaning fluids. Print is opaque or partially transparent per project brief.

B. Layer composition

| Layer | Material | Thickness |
|--------------|---|-----------|
| Outer pane | Tempered low-iron glass + UV digital print (inner face) | 6.0 mm |
| Interlayer 1 | PRIVASEE-specified EVA | 0.8 mm |
| Active film | FM-T91 PDLC active film | 0.4 mm |
| Interlayer 2 | PRIVASEE-specified EVA | 0.8 mm |
| Inner pane | Tempered low-iron glass | 6.0 mm |

C. Performance / spec impact

| Property | Impact vs SG-01 standard |
|------------|--|
| VLT clear | Pattern-dependent — reduced where opaque print covers area |
| VLT opaque | ≥ 80 % (unchanged) |
| Haze clear | Pattern-dependent |
| Switching | < 1 s clear ↔ opaque (unchanged) |
| Image life | Print laminated permanently — no fade exposure |
| Compliance | BS EN 14449 · EN 12150 · BS 6206 (unchanged) |

D. Where it fits

- Branded feature walls in lobbies, showrooms, and corporate interiors.
- Photographic backdrops in hospitality (hotel suites, restaurants, spas).
- Wayfinding and branded manifestation on full-height glass.
- Decorative panels where the image must be permanent and protected.

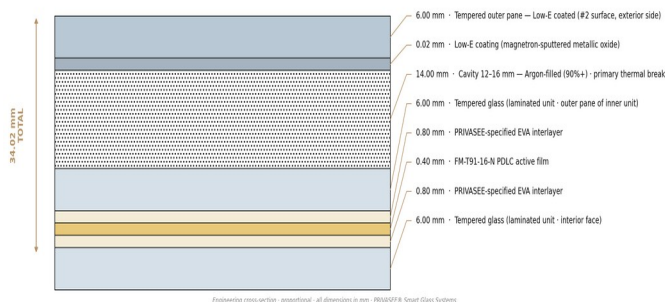
E. Architect spec line

“Switchable PDLC laminated glass to PRIVASEE® SG-01-UVPRINT — tempered low-iron outer pane 6 mm with UV-cured digital print to architect-supplied artwork on inner face · EVA 0.8 mm · FM-T91 PDLC active film 0.4 mm · EVA 0.8 mm · tempered low-iron inner pane 6 mm · total 14.0 mm nominal · compliant with BS EN 14449, EN 12150, BS 6206.”

§04 DGU façade — sealed insulating unit.

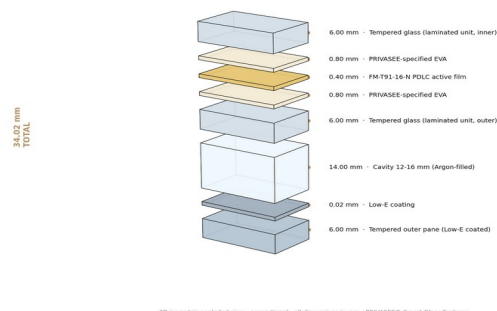
Smart Glass laminated assembly used as the inner leaf of a sealed double-glazed unit.

DGU FAÇADE · Insulating Glass Unit with Smart Glass Inner Pane



2D engineering cross-section

DGU FAÇADE · 3D Isometric Exploded · Insulating Unit + Smart Glass



3D isometric exploded view

A. What changes vs the SG-01 standard build

For external façade applications, the Smart Glass laminated assembly is sealed into a double-glazed unit with an outer tempered float pane, a 16 mm warm-edge spacer (argon-filled cavity), and the SG-01 laminated assembly as the inner leaf. The unit is edge-sealed with TOSSEAL 381 silicone — the only approved sealant — and meets EN 1279 for insulating glazing performance.

B. Layer composition

| Layer | Material | Thickness |
|------------|--|-----------|
| Outer pane | Tempered float / low-e coated (project-specific) | 6.0 mm |
| Cavity | Argon-filled warm-edge spacer | 16 mm |
| Inner leaf | SG-01 laminated PDLC assembly (full build) | 14.0 mm |
| Edge seal | TOSSEAL 381 silicone | perimeter |

C. Performance / spec impact

| Property | Impact vs SG-01 standalone |
|----------------------|--|
| U-value | Significantly improved — typical Ug 1.0-1.4 W/m²K |
| Solar gain (g-value) | Project-specific — depends on outer pane low-e |
| Acoustic Rw | Pattern improved when LG-02 used as inner leaf |
| Switching | < 1 s clear ↔ opaque (unchanged, inner leaf only) |
| Compliance | BS EN 14449 · EN 1279 · EN 12150 · BS 6206 |
| Sealant | TOSSEAL 381 only — all other silicones void warranty |

D. Where it fits

- External façades and curtain walls — switchable privacy with thermal insulation.
- Hotel and residential exterior glazing where solar control + privacy combine.
- Office façades where switchable glare-control replaces blinds at the glass plane.
- Commercial buildings where U-value compliance + switchable privacy are both required.

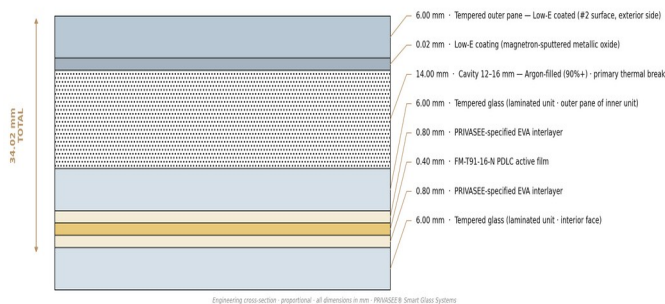
E. Architect spec line

“Switchable PDLC laminated glass in sealed insulating unit to PRIVASEE® SG-01-DGU — tempered outer pane 6 mm (low-e per project) · 16 mm argon-filled cavity with warm-edge spacer · inner leaf SG-01 PDLC laminated assembly 14.0 mm · perimeter sealed with TOSSEAL 381 silicone · total 36 mm nominal · compliant with BS EN 14449, EN 1279, EN 12150, BS 6206.”

§05 Skylight overhead.

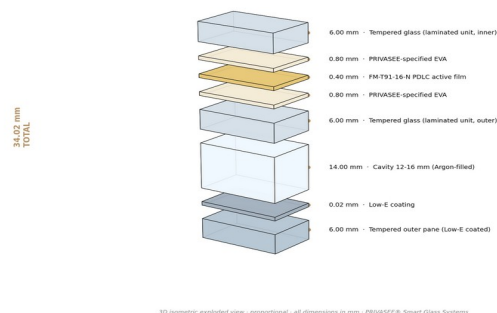
Asymmetric heavy-built laminated assembly engineered for sloped and overhead glazing.

SKYLIGHT · Overhead Glazing DGU with Smart Glass – Structural Review Required



2D engineering cross-section

SKYLIGHT · 3D Isometric Exploded · Overhead DGU + Smart Glass



3D isometric exploded view

A. What changes vs the SG-01 standard build

Overhead and sloped glazing carry structural and safety responsibilities that the standard SG-01 build is not engineered for. The skylight configuration uses an asymmetric build with a thicker, heat-soaked tempered outer pane and a heat-strengthened laminated inner pane to manage live loads and post-breakage retention. Each project is engineered to its glazing plane angle, span, and structural code.

B. Layer composition

| Layer | Material | Thickness |
|--------------|---|---------------|
| Outer pane | Heat-soaked tempered low-iron (or coated) | 8.0 - 10.0 mm |
| Interlayer 1 | PRIVASEE-specified EVA | 0.8 mm |
| Active film | FM-T91 PDLC active film | 0.4 mm |
| Interlayer 2 | PRIVASEE-specified EVA | 0.8 mm |
| Inner pane | Heat-strengthened laminated glass (toughened both leaves) | 8.0 mm |

C. Performance / spec impact

| Property | Impact vs SG-01 standard |
|--------------------|--|
| Structural rating | Sloped / overhead use — engineered per project |
| VLT clear / opaque | ≥ 90 % / ≥ 80 % (unchanged) |
| Solar gain | Project-specific — low-e + frit options available |
| Safety | Heat-soaked outer + laminated inner leaf for retention |
| Switching | < 1 s clear ↔ opaque (unchanged) |
| Compliance | BS EN 14449 · EN 12150 · BS 6206 · BS EN 13474 |

D. Where it fits

- Skylights — switchable from clear daylight to opaque for siesta / siesta-rooms.
- Sloped roof glazing in hospitality, residential, and retail.
- Atrium glazing where solar / privacy control overhead is part of the brief.
- Pool / spa overhead glazing where heat + humidity tolerance is engineered in.

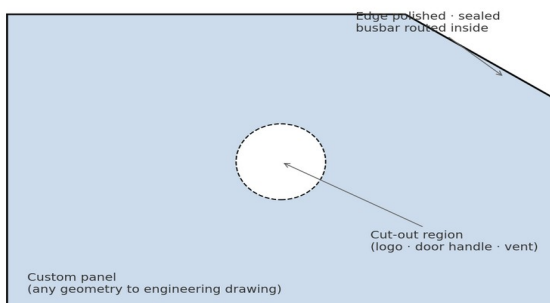
E. Architect spec line

“Switchable PDLC laminated glass for overhead glazing to PRIVASEE® SG-01-SKYLIGHT — heat-soaked tempered outer pane [8.0 mm minimum] · EVA 0.8 mm · FM-T91 PDLC active film 0.4 mm · EVA 0.8 mm · heat-strengthened laminated inner leaf [project-engineered] · total thickness per structural calculation · compliant with BS EN 14449, EN 12150, BS 6206, BS EN 13474. Sloped + overhead use only on PRIVASEE-engineered build.”

§06 Custom shape / logo cut.

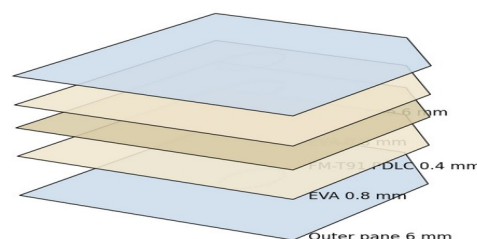
Bespoke panel geometry with cut-out features routed and edge-polished.

Custom shape — 2D plan view with logo cut



2D engineering cross-section

Custom shape — 3D isometric exploded view



3D isometric exploded view

A. What changes vs the SG-01 standard build

Standard SG-01 panels are rectangular. Custom shape configurations deliver any bespoke geometry — radiused corners, trapezoidal walls, irregular feature shapes, and cut-out regions for door handles, branding cut-outs, and service vents. Edges are CNC-routed, polished, and the busbar layout re-engineered around the geometry. Cut-out regions can be internal voids or feature apertures, and all are edge-sealed and electrically isolated from the active PDLC area.

B. Layer composition

| Layer | Material | Thickness |
|--------------|--|-----------|
| Outer pane | Tempered low-iron glass (or coloured) | 6.0 mm |
| Interlayer 1 | PRIVASEE-specified EVA | 0.8 mm |
| Active film | FM-T91 PDLC active film (engineered around cut-outs) | 0.4 mm |
| Interlayer 2 | PRIVASEE-specified EVA | 0.8 mm |
| Inner pane | Tempered low-iron glass | 6.0 mm |

C. Performance / spec impact

| Property | Impact vs SG-01 standard |
|-------------|---|
| Active area | Reduced — cut-outs subtract from switching area |
| VLT / haze | Unchanged in active area |
| Switching | < 1 s clear ↔ opaque in active area |
| Edge detail | CNC routed + polished · busbar re-routed |
| Lead time | +1-2 weeks vs standard for CAD + tooling setup |
| Compliance | BS EN 14449 · EN 12150 · BS 6206 (unchanged) |

D. Where it fits

- Doors with sliding handle apertures or pull-handle pockets cut into the glass.
- Branded shape cut-outs — logos, monograms, brand-icon apertures.
- Trapezoidal partitions that follow architectural geometry — sloped walls, dormers.
- Bespoke retail vitrines with shaped frontage and service cut-outs.

E. Architect spec line

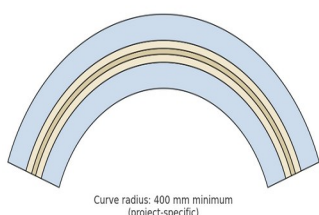
“Switchable PDLC laminated glass to PRIVASEE® SG-01-SHAPE — geometry and cut-outs per engineering drawing reference [PRJ]-... · tempered low-iron outer 6 mm · EVA 0.8 mm · FM-T91 PDLC active film 0.4 mm · EVA 0.8 mm · tempered low-iron inner 6 mm · total 14.0 mm nominal · CNC-routed and polished edges · busbar routed per CAD · compliant with BS EN 14449, EN 12150, BS 6206.”

§07 Curved laminated.

Both panes bent to matched radius before lamination — concave or convex curves.

Curved laminated — 2D cross-section

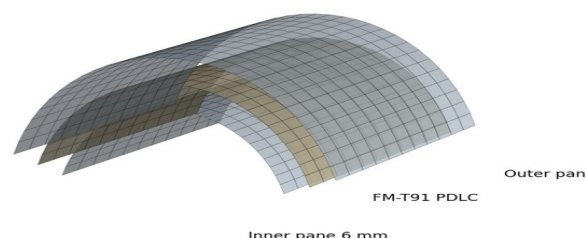
Both panes pre-bent to matched radius before lamination.



Curve radius: 400 mm minimum (project-specific)

2D engineering cross-section

Curved laminated — 3D isometric view



Inner pane 6 mm

3D isometric exploded view

A. What changes vs the SG-01 standard build

The SG-01 active film is conformable enough to follow a curved profile when both glass panes are pre-bent to a matched radius. Glass is heated and shaped over a matched mould pair before being laminated together with the EVA + PDLC stack. Curve radius is project-engineered — typical minimum is 400 mm, but tighter curves are possible with engineering review. Cylindrical (single-axis) and gentle compound curves are both viable.

B. Layer composition

| Layer | Material | Thickness |
|--------------|--|-----------|
| Outer pane | Tempered low-iron glass — pre-bent to project radius | 6.0 mm |
| Interlayer 1 | PRIVASEE-specified EVA | 0.8 mm |
| Active film | FM-T91 PDLC active film — conformable | 0.4 mm |
| Interlayer 2 | PRIVASEE-specified EVA | 0.8 mm |
| Inner pane | Tempered low-iron glass — matched radius | 6.0 mm |

C. Performance / spec impact

| Property | Impact vs SG-01 standard |
|--------------------|---|
| Curve radius | Project-engineered · 400 mm minimum typical |
| VLT / haze | ≥ 90 % / ≤ 2.5 % (unchanged from standard) |
| Switching | < 1 s clear ↔ opaque (unchanged) |
| Optical distortion | Higher than flat — engineered into project sightlines |
| Lead time | +2-3 weeks vs standard for bending tooling |
| Compliance | BS EN 14449 · EN 12150 · BS 6206 (unchanged) |

D. Where it fits

- Curved meeting-room partitions following architectural geometry.
- Cylindrical glass walls in hotel lobbies and showrooms.
- Curved façade segments with switchable solar / privacy control.
- Display vitrines with shaped fronts that wrap around merchandise.

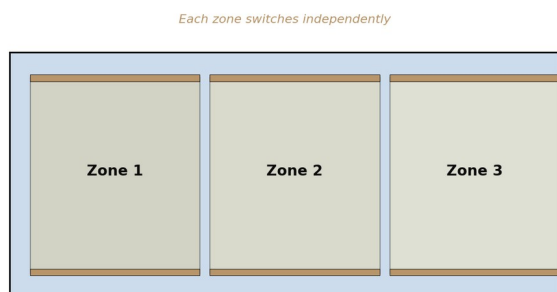
E. Architect spec line

“Switchable PDLC laminated glass to PRIVASEE® SG-01-CURVED — curve radius and geometry per engineering drawing reference [PRJ]-... · tempered low-iron outer 6 mm pre-bent · EVA 0.8 mm · FM-T91 PDLC active film 0.4 mm · EVA 0.8 mm · tempered low-iron inner 6 mm matched radius · total 14.0 mm nominal · compliant with BS EN 14449, EN 12150, BS 6206.”

§08 Multi-zone / Jumbo.

Single panel sub-divided into independently switching zones.

Multi-zone / Jumbo — 2D front view (3 zones shown)

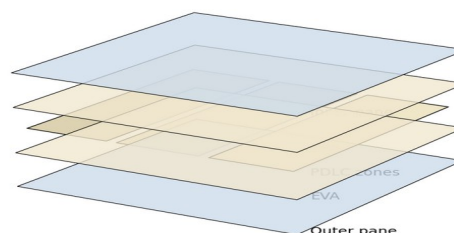


Each zone switches independently

Busbar pair per zone (top + bottom)
Panel size: up to 2.4 m x 6 m (project-engineered)

2D engineering cross-section

Multi-zone / Jumbo — 3D isometric exploded view



3D isometric exploded view

A. What changes vs the SG-01 standard build

For large panels and panels where the brief calls for independent zone control, a single Smart Glass panel is engineered with multi-zone busbar configuration. Each zone switches clear or opaque independently — driven by a multi-channel power drive (DZ6L family). This unlocks panel sizes beyond the single-busbar cap and lets architects switch the panel by section — for example, head clear / centre opaque / sill clear.

B. Layer composition

| Layer | Material | Thickness |
|--------------|--|-----------|
| Outer pane | Tempered low-iron glass (single piece) | 6.0 mm |
| Interlayer 1 | PRIVASEE-specified EVA | 0.8 mm |
| Active film | FM-T91 PDLC film — multi-zone busbar configuration | 0.4 mm |
| Interlayer 2 | PRIVASEE-specified EVA | 0.8 mm |
| Inner pane | Tempered low-iron glass (single piece) | 6.0 mm |

C. Performance / spec impact

| Property | Impact vs SG-01 standard |
|------------------------|---|
| Panel size | Beyond single-busbar cap — project-engineered to multi m ² |
| Zones per panel | 2 - 6 typical · project-engineered |
| VLT / haze / switching | Unchanged within each zone |
| Power drive | DZ6L 6-channel family pairs naturally |
| Control | Per-zone via DZ6L · wall control or BMS integration |
| Compliance | BS EN 14449 · EN 12150 · BS 6206 (unchanged) |

D. Where it fits

- Boardroom-wide single glass walls switched in zones (full / hero / sill).
- Hotel suite glazing — switch bathroom + bedroom zones independently.
- Auditorium and event-space partitions zoned by audience configuration.
- Façade panels where head / body / sill switch on different schedules.

E. Architect spec line

“Switchable PDLC laminated glass to PRIVASEE® SG-01-JUMBO / multi-zone — single panel [W x H mm per drawing] · tempered low-iron outer 6 mm · EVA 0.8 mm · FM-T91 PDLC active film 0.4 mm in [n] independently switching zones · EVA 0.8 mm · tempered low-iron inner 6 mm · total 14.0 mm nominal · multi-channel drive PRIVASEE DZ6L · compliant with BS EN 14449, EN 12150, BS 6206.”

Comparison matrix.

All 8 configurations side-by-side.

| § | Configuration | Outer pane | Total thickness | Acoustic / Thermal | Lead time vs SG-01 |
|----|--------------------|------------------------------------|-----------------|---|----------------------|
| 01 | Coloured | Tinted tempered 6 mm | 14.0 mm | Reduced solar gain | Same |
| 02 | Frit print | Tempered + ceramic frit | 14.0 mm | Reduced solar gain | +1 week |
| 03 | UV print | Tempered + UV print | 14.0 mm | Pattern-dependent | +1 week |
| 04 | DGU façade | 6 + 16 cavity + 14 inner leaf | 36.0 mm | Ug 1.0–1.4 W/m ² K · acoustic improved | +1 week |
| 05 | Skylight | Heat-soaked 8–10 mm | 18.0 mm typical | Project-engineered | +1–2 weeks |
| 06 | Custom shape | Standard 6 mm + busbar re-route | 14.0 mm | Unchanged in active area | +1–2 weeks |
| 07 | Curved | Pre-bent 6 mm matched radius | 14.0 mm | Unchanged from standard | +2–3 weeks |
| 08 | Multi-zone / jumbo | Standard 6 mm + multi-busbar zones | 14.0 mm | Unchanged within zones | Engineering required |

Combinations.

Configurations are not mutually exclusive — a project can combine several. Common pairings include Coloured + DGU façade for tinted insulating curtain wall · Frit + Skylight for solar-controlled overhead glazing · Custom shape + Multi-zone for large bespoke partitions. All combinations are engineered to the project brief — send drawings + spec lines to engineering@privasee.uk for routing.

Compliance summary.

Standards applied across all 8 configurations.

| Standard / reference | Scope | Applied to |
|--------------------------|---|--|
| BS EN 14449 | Laminated glass — overall standard | All 8 configurations |
| EN 12150 / BS EN 12150-1 | Thermally toughened safety glass | All — both panes tempered |
| BS 6206 / EN 12600 | Impact performance of safety glass | All 8 configurations |
| ISO 12543-5 | Laminated glass tolerance | All 8 configurations |
| BS EN 13474 | Glass design — structural | \$05 Skylight overhead (sloped / overhead) |
| EN 1279 | Insulating glazing units (IGU) | \$04 DGU façade (sealed insulating unit) |
| ISO 10140 · ISO 717-1 | Acoustic Rw rating method | Available on LG-02 build (separate) |
| EN 410 · ISO 9050 | Optical (VLT) determination | All 8 configurations |
| ASTM D1003 | Haze determination | All 8 configurations |
| IEC 60617 · IEC 60446 | Electrical schematic + wiring colour code | All 8 — power drive wiring |

Approved silicone — TOSSEAL 381 only

TOSSEAL 381 silicone is the only approved sealant for PRIVASEE® Smart Glass edge sealing. Substitution with any other silicone — even structurally rated — voids the warranty. This applies across all 8 configurations and to all DGU edge seals.

Approved cleaner — Isopropyl Rubbing Alcohol 70 %

IPA 70% sprayed onto a lint-free microfibre (never directly onto the glass surface) is the only approved cleaning method. Ammonia (Windex), acidic, alkaline, solvent, and abrasive cleaners void the warranty.

Engineering route.

How to brief PRIVASEE for a custom configuration.

What we need from you.

| # | Information | Why it matters |
|---|--|---|
| 1 | Project brief — site, building type, glazing context | Determines configuration shortlist + applicable standards |
| 2 | Panel schedule — W × H × count per panel | Confirms size against family caps · drives engineering CAD |
| 3 | Glazing context — interior / façade / overhead / framed / structural | Routes between SG-01 standard, DGU, skylight, custom shape |
| 4 | Architect spec lines — safety, acoustic, fire, glazing standards | Determines acoustic LG-02 path, compliance scope, sealant |
| 5 | Aesthetic spec — colour, pattern, shape, curvature | Routes between Coloured, Frit print, UV print, Curved, Shape |
| 6 | Switching behaviour — single zone vs multi-zone | Routes between SG-01 single-zone and multi-zone / jumbo build |
| 7 | Control method — wall switch · remote · BMS · home automation | Routes to PJ-D · DZD · DZ6L power drive integration |
| 8 | Decision date + target install date | Confirms 4–6 week production + freight fits project programme |

What we send back.

Within 2 working days of receiving your brief: (1) routed configuration recommendation, (2) indicative quote with bracket pricing, (3) lead time estimate, (4) engineering CAD outline, (5) compliance summary for your spec, (6) any follow-up engineering questions.

Escalation contacts.

Engineering quote request: engineering@privasee.uk

Technical / spec advice: tech-sales@privasee.uk

Partner certification: partners@privasee.uk

Distributor enquiries: distributors@privasee.uk

General: info@privaseegroup.com · www.privaseegroup.com

Eight paths.

One engineered platform.

PRIVASEE® Smart Glass starts with one engineered laminated assembly — the SG-01 standard build. The eight configurations in this catalogue document the engineered paths that brief can take. Send your project drawings, spec lines, and programme — we route the right configuration, give you indicative pricing, and engineer to the brief you give us.

Tell us about your project.

engineering@privasee.uk · www.privaseegroup.com

PRIVASEE Smart Glass Systems · Custom Configurations Catalogue · PVS-SGS-CAT-CONFIGS-01
Rev 1.0 · Issued 2026-05-11 · Companion to SG-01 / LG-01 / LG-02 datasheets

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