

# PRIVASEE®

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## SMART GLASS BROCHURE

Laminated PDLC smart glass — SG-01, LG-01, LG-AC

Architectural switchable privacy glass · UK-engineered · CE / UKCA marked.

DOCUMENT CODE

**MKT-02 · Rev 1.0**

ISSUED · 2026-05-06 CLASSIFICATION · INTERNAL DRAFT

# 01 PRIVASEE® Smart Glass at a Glance

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[ HERO IMAGE — Smart Glass installed in flagship project ]

founder to place — PowerPoint · 178×90 mm

## WHAT IT IS

Factory-laminated PDLC smart glass — PDLC film sandwiched between two panes of low-iron glass with EVA interlayer, autoclaved to a single panel. Sealed at the factory, switched on site by a low-voltage AC drive.

## THREE PRODUCTS IN THE FAMILY

SG-01 — Standard switchable smart glass. LG-01 — Laminated standard with additional safety / security rating. LG-AC — Acoustic laminated smart glass (acoustic Rw range 34–48 dB).

## 02 The 3-Product Family

PRODUCT	BUILD-UP NOMINAL	USE CASE	KEY DIFFERENTIATOR
SG-01	6 + 0.8 + 0.4 + 0.8 + 6 mm (14.0 nominal · 13.82 measured)	Standard architectural privacy glazing	Best price / performance, widest catalogue spec
LG-01	8 + 0.76 + 0.4 + 0.76 + 8 mm [VERIFY]	Laminated safety / security applications	Class 1B (BS EN 12600) impact rating
LG-AC	10 + 0.76 ac + 0.4 + 0.76 ac + 10 mm [VERIFY]	Acoustic-treatment + privacy combined	Acoustic Rw 34–48 dB range (per build-up)

All three products use the same FM PDLC family inside (Premium FM-T91 16 µm Non-Adhesive). EVA standards: 0.8 mm regular grade for SG-01 · 0.76 mm precision grade for LG-01 · 0.76 mm acoustic grade for LG-AC. Substrate: low-iron glass for ≥ 75 % VLT in clear state.

## 03 Headline Performance

PROPERTY	SG-01	LG-01	LG-AC
Switching speed	< 0.5 s	< 0.5 s	< 0.5 s
VLT clear	≥ 75 %	≥ 73 %	≥ 70 %
VLT opaque	≤ 5 %	≤ 5 %	≤ 5 %
Haze clear	≤ 6 %	≤ 6 %	≤ 8 %
Acoustic Rw	≈ 32 dB [VERIFY]	≈ 36 dB [VERIFY]	34–48 dB (per build-up)
Impact rating	Class 2B	Class 1B	Class 1B
Max single panel	≈ 2.2 × 3.6 m	≈ 2.2 × 3.6 m	≈ 2.2 × 3.0 m
Operating temp	-20 to +60 °C	-20 to +60 °C	-20 to +60 °C
Lead time UK	8–12 wks	8–12 wks	10–14 wks
Approvals	CE · UKCA · BS EN 14449	CE · UKCA · BS EN 14449	CE · UKCA · BS EN 14449

All values typical. Per-product verified specifications are in TEC-02 (SG-01 Master) and equivalents. Acoustic Rw range banned to be cited above 48 dB (BAN-001).

## 04 Where it's Used

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### Hospitality

Hotel guest-room glazing · spa treatment-room privacy walls · executive lounge enclosed booths · restaurant private dining glass walls.

### Healthcare

Operating-theatre observation glazing · clinical consultation interior glazing · imaging-room privacy walls · NICU partition glazing.

### Commercial

Boardroom feature glazing · executive office full-height privacy walls · open-plan acoustic+privacy walls (LG-AC) · meeting-pod enclosures.

### Residential

Premium residential bathroom/ensuite walls · pool-house glazing · home-cinema acoustic glazing (LG-AC) · double-aspect bedroom glazing.

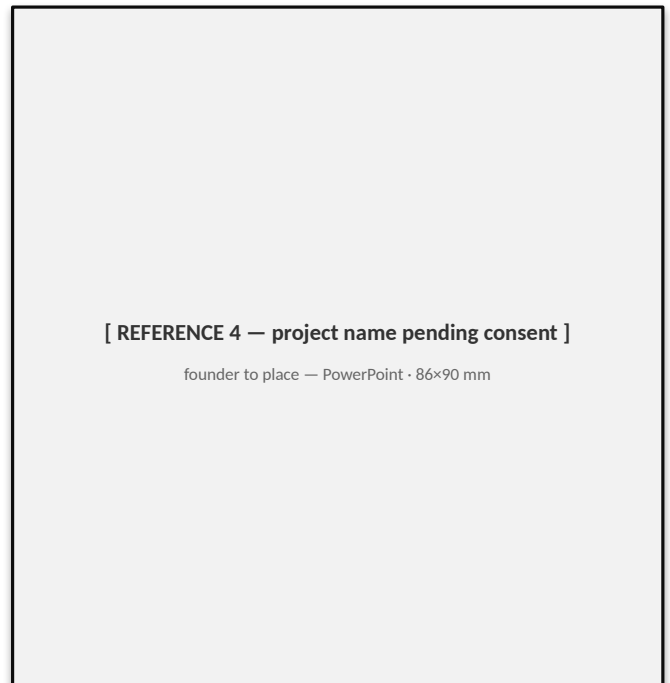
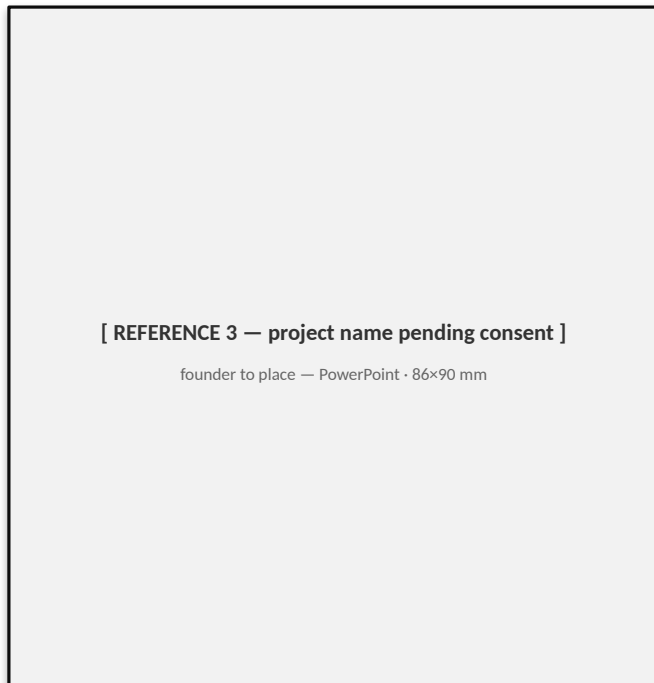
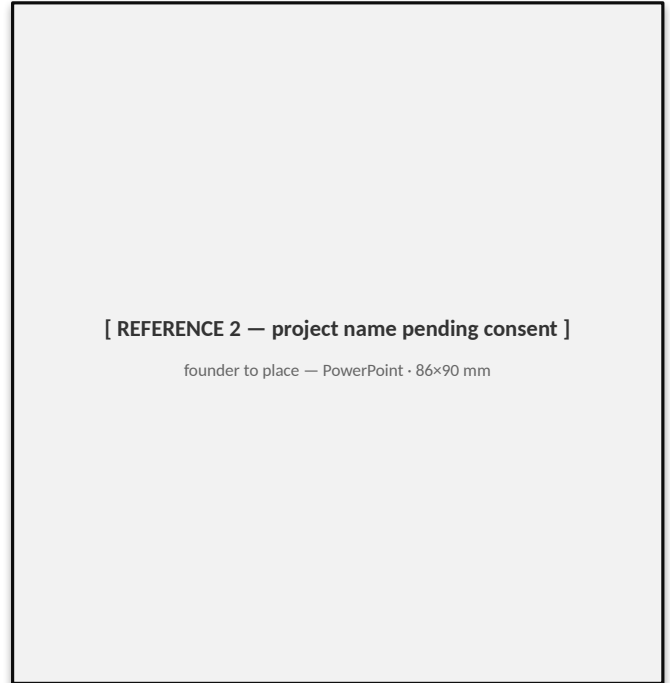
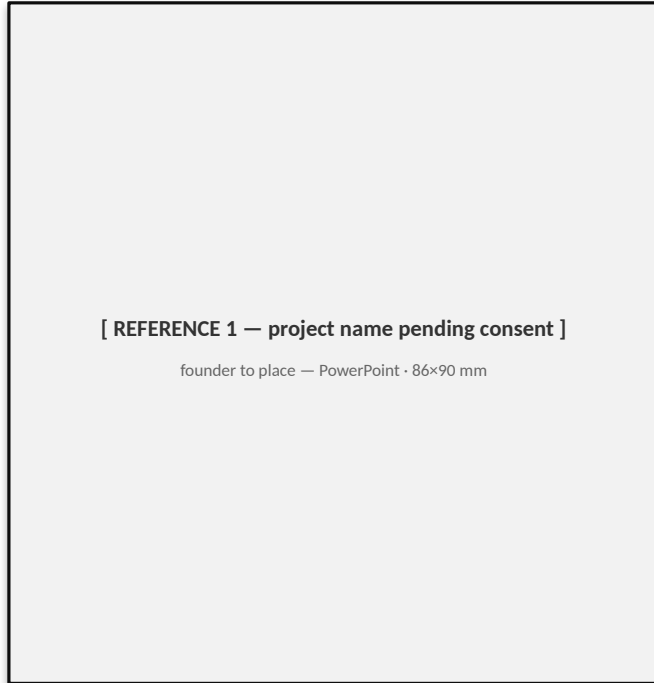
### Special projects

Yacht owner's-cabin partitions · executive aircraft cabin glazing (subject to type-approval — partner referral) · museum exhibit privacy.

## 05 Reference Project Gallery

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Photo placeholders — final external publication requires per-project naming consent.



## 06 Installation Summary

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### PROCESS

Pre-fabricated by PRIVASEE in factory-controlled environment. Delivered as a sealed laminated unit with busbar pigtails at edge. Installed by glazing contractor per BS 6262 / BS 8000-7. Wiring to drive by licensed electrician per the Power Drive manual for the chosen family.

### FRAME / EDGE SEAL

TOSSEAL 381 silicone is the only approved sealant for glass-to-frame interface (LP-003). Other silicones contain plasticisers that attack EVA over time and void warranty.

### POWER

Pair with PRIVASEE Power Drive (see Catalogue PVS-SGS-CAT-PD-01). Drive sized to panel area: typical 5 W / m<sup>2</sup>. For multi-panel feature glazing, specify DZ6L. For BMS-controlled buildings, specify DZD-NO.

### FULL INSTALLATION DETAIL

TEC-07 Smart Glass Installation Manual (currently Blocked — pending founder install sequence + sealing protocol).

## 07 Warranty & Maintenance

TOPIC	DETAIL
Warranty — glass panel	24 months from installation date (manufacturing fault)
Warranty — drive	24 months
Activation	Single-page registration form with serial + install date
Conditions	TOSSEAL 381 silicone only · IPA 70 % cleaning only · install per BS 6262
Cleaning method	Spray small amount IPA 70 % onto lint-free microfibre (NEVER on glass)
Banned chemicals	Ammonia (Windex) · acidic · alkaline · solvent · abrasive · direct-spray
Lifespan	Useful life 7–10 yr typical · drive ~ 10+ yr · panel replaceable, drive reused
Failure handling	WhatsApp / email photo + serial → triage < 24 hr → cross-ship from UK or UAE for drive · panel replacement 4–6 wk lead

## 08 Acoustic Performance (LG-AC)

BUILD-UP	RW (typical, dB)
8 + 0.76ac + 0.4 + 0.76ac + 8 mm	34
10 + 0.76ac + 0.4 + 0.76ac + 10 mm	38
12 + 0.76ac + 0.4 + 0.76ac + 12 mm	41
10 + 1.52ac + 0.4 + 1.52ac + 10 mm (double interlayer)	44
12 + 1.52ac + 0.4 + 1.52ac + 12 mm (double interlayer)	48 [VERIFY]

Rw values per BS EN ISO 717-1 / per laboratory test on representative build-up. Maximum stated Rw for LG-AC is 48 dB — claims above 48 dB are banned (BAN-001). For higher acoustic requirements specify a separate acoustic-secondary glazing system.

## 09 Why PRIVASEE Smart Glass

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### Low-iron substrate as standard

≥ 75 % VLT in clear state, low green tint.



### Factory laminated

Full encapsulation of PDLC — no on-site contamination risk.



### Single-supplier solution

Glass + drive + warranty from one supplier.



### CE / UKCA / BS EN 14449

Project submission-ready in UK, EU, GCC.



### LG-AC for acoustic + privacy

Single product solves both privacy and acoustic privacy.



### Scalable panels

Up to 2.2 × 3.6 m single panels — minimal joint count in feature walls.

## 10 Next Steps & Contact

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Free A6 sample on qualified projects  $\geq 10 \text{ m}^2$ . Project quote inside 48 hr. Architect site visit on request.

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### REFERENCED DOCUMENTS

TEC-02 — SG-01 Master Document (locked)  
QUA-01a/b — Warranty (GCC + EU)  
TEC-11a/b — Maintenance  
PVS-SGS-CAT-PD-01 — Power Drive Catalogue  
TEC-07 — Smart Glass Installation Manual (Blocked)

## 11 Revision History

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REV	DATE	AUTHOR	CHANGE NOTES
1.0	2026-05-06	Claude (PRIVASEE AI)	Initial issue — Smart Glass Brochure. 12 pp PPTX A4 portrait Track A. Photo placeholders for hero and reference projects. Acoustic table includes [VERIFY] on 48 dB top-end value pending lab cert.

**END OF SMART GLASS BROCHURE**