

INSTALLATION GUIDE

Site survey, application and commissioning for PDLC film

PDLC Switchable Smart Film | Issued 23 July 2026 | Rev 1.0

INDICATIVE DATA

This guide is an indicative overview for planning. Follow the method statement and driver data sheet supplied with your order, and use a qualified installer and electrician.

■ REQUIRED TOOLS

- Clean-room squeegee, felt-edged squeegee and utility knife with fresh blades.
- Application solution (filtered water with a trace of no-tears soap) and spray bottle.
- Lint-free microfibre cloths and a glass scraper.
- Tape measure, straight edge and low-voltage test meter.

■ STEP-BY-STEP INSTALLATION

- 01 Survey and measure each pane; confirm the switching zones and driver locations.
- 02 Thoroughly clean the glass - remove all dust, grease and old adhesive.
- 03 Cut the film to size, leaving the bus-bar edges accessible for connection.
- 04 Wet the glass, position the film and squeegee out solution from the centre outward.
- 05 Connect the low-voltage leads to the bus bars and dress the cable into the frame.
- 06 Route the cable to the driver and connect the driver output; keep runs short.
- 07 Have a qualified electrician connect the driver to the switched mains supply.
- 08 Power on and test switching (clear <-> private) across the full pane.
- 09 Seal exposed edges as specified and clean the finished glass face.

■ CLEANING

- Wait the recommended cure time before the first wet clean.
- Use a damp microfibre cloth and mild detergent only.
- Never use ammonia, solvents, blades or abrasive pads on the film face.

■ TESTING

- Confirm uniform clear and private states with no patchiness at operating voltage.
- Check the driver output voltage is within the specified range under load.
- Verify the controller switches every zone it is wired to.

■ MAINTENANCE

- Keep bus-bar edges dry and connections sealed.
- Inspect cabling and the driver periodically for heat or damage.
- Clean only as above; report any persistent haze or dead area to the supplier.

■ TROUBLESHOOTING

Film stays private	Check mains, driver output and controller wiring / switch.
Dim or uneven clear state	Likely voltage drop - shorten run or check bus-bar contact.
Flicker or buzz	Confirm driver rating vs film area; check for loose connections.
Local dead patch	Possible bus-bar / edge damage - contact the supplier.
