

SWITCHABLE GLASS

FROM ISOCLIMA SPECIALTY GLASS

OPACITY: ON/OFF

Translucent (97% Haze) unenergized, clear while energized.

SWITCHABLE TECHNOLOGY:

Polymer Dispersed Liquid Crystal (PDLC) also noted as liquid crystal privacy glass.

POWER OPTIONS:

Isoclisma Specialty Glass can manufacture almost any supply voltage and any bus bar configuration (one edge, two edges, double leads, etc. Generally, we use 1 inverter per 60ft², typically 110/120V, preferably leads less than 100'. Units in parallel are available too on request. Note: All of these systems require inverters.

PERFORMANCE METRICS

The energized state is a translucent white with a Visible Light Transmission (VLT) of 1.5% in a 5/16" laminate, 97% haze. When the unit is energized it will go clear in less than 1 second, technically 100ms at 70°F. Any change in original makeup will decrease VLT (tint, coatings, thicker laminate, etc.). Low iron glass will slightly increase transmission.

DIMENSIONS:

5/16" to 12"+ thickness. Size up to 70x120"- If you have large size needs please contact us first for a discussion on options.

ADDITIONAL FEATURES:

Flat and bent, tinted glass, low iron glass, printed (spandrel and pattern screen printing) glass, low-e glass, reflective glass including transparent mirror, bird friendly, insulating glass units (IGU), warm edge spacer, tinted and translucent interlayers. Please note some options may increase OA thickness.

PRICING & LEADTIME:

Production is based on scope of the job, please send your sizes and specifications to info@isoclimasg.com for attention. Please note that this is a cooperative sale where we require input from the customer in that they are the ones installing and wiring. A minimal amount of information from the client is required, including potentially where they want the wires/bus bar, do they mind the bus bar being visible, quantity, size, construction/performance level.





OTHER TECHNICAL SPECS:

It is technically energy efficient. Uses less than 1w/ft² when energized and consumes nothing when off.

Isoclima Specialty Glass has produced this product in ballistic glass that has a cyclic timer (it will shut itself on and off every few seconds). This product can also be used in our CHILDGARD® and ACCESSGARD® product lines as well.

The glass can be integrated into smart building systems for automated control.

The glass can be integrated with other technologies for additional features like interactivity.

The PDLC technology can be used in a wide range of interior and exterior applications, including:

- Windows
- Partitions
- Doors
- Skylights
- Conference rooms
- Storefronts

Its versatility makes it suitable for both residential and commercial spaces.

Custom colors such as vibrant blue, purple, and gold depending on the angle are available. Perfect for facades and interiors, it not only enhances aesthetics but also blocks 99% UV.

Sectional “Blinds” style is also available upon request.

