

**SWITCHABLE GLASS DOOR
SYSTEM INSTALLATION OVERVIEW**

The Switchable Glass Door System arrives on site fully assembled and ready to install. The installation site should be prepared by installing the appropriate receiving equipment to allow for proper door function.

The site preparation should include the following (See also fig. 4):

- Holes bored and conduit put in place for the routing of door's power leads through the install door header.
- Installation of "Upper Pivot" hardware included in the shipment of your Switchable Glass Door Panel. (Part 2 of this section)
- Installation of "Lower Pivot" hardware included in the shipment of your Switchable Door Panel. (Part 3 of this section)
- Installation of Power Module PM1210 (covered in Section 2)

Following the installation instructions in this guide is paramount to the proper performance of your new Switchable Glass Door System. Please read ALL instructions before beginning the installation process of your door system as well as any and all other Switchable Glass Panels.

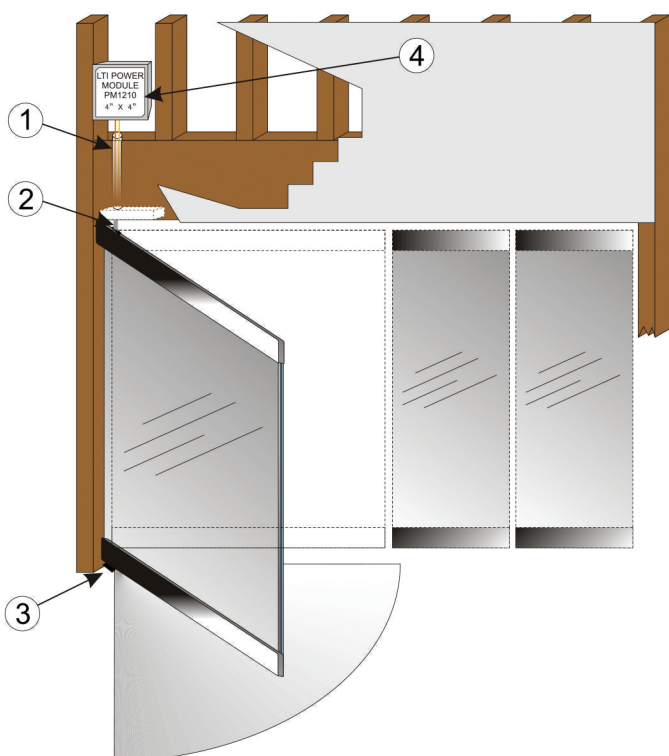
If you encounter any questions or anomalies not covered in this manual you must contact Glass Technology Consultants, LLC before proceeding in order to acquire accurate assistance as well as to protect your investment.

We are dedicated to providing superior state-of-the-art products and technical support.

IMPORTANT: We always use industry safety standards.

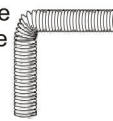
MAJOR COMPONENTS

FIGURE 4



①

Wire Leads From Glass. Leads will exit pivot system of door and will need to be routed through the header framing member via approved flexible conduit to engage Power Module.



②

Upper Pivot Receiver. This piece of hardware will accompany your Switchable Glass Door System. You must mortise the door header to accommodate this part.



③

Lower Door Pivot Receiver. This piece of hardware will accompany your Switchable Glass Door System. This will either be a stationary lower pivot or door closer based on your order. Either case requires the floor to be prepared. The closer unit installs below floor level.



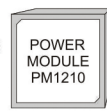
Door Closer

Lower Door Pivot



④

Power Module PM1210. Installation of this part is covered in Section 2 of this manual





Switchable Privacy Specifications

Function:

Provides instant switchable privacy for an opaque, milky white, laminated panel to become transparent with the application of an electrical current to an embedded layer of liquid crystal particles.

Switching Action:

An array of switching options are available from a basic single-pole/single throw switch to advanced integration into home automation systems.

Dimension:

Maximum width: 54" (1371mm)
Maximum length: 144" (3657mm)
Larger custom sizes available.

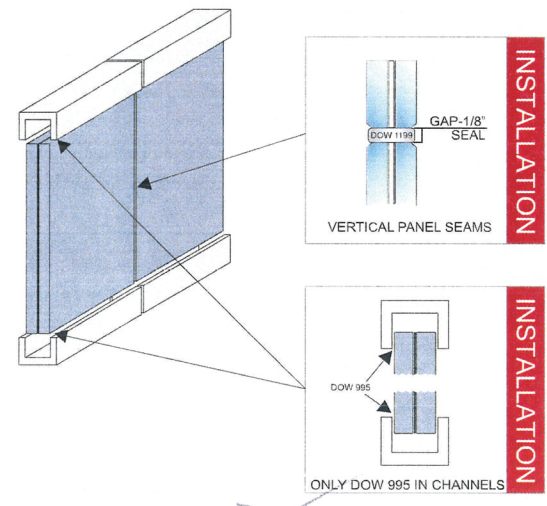
Energy Data:

Input Power: 120VAC /60Hz
Energy Consumption: ~3-5 watts/ sq meter
0 Watts in privacy state

Installation Data:

Channel Glazing:

See LC installation manual for additional glazing details and cautions

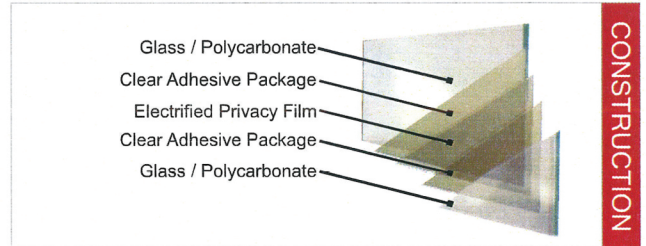


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Method of Action:

Electrical current either aligns or randomizes liquid crystals to achieve desired transparency.



Thickness (Glass):

Maximum Thickness: (unlimited)
Minimum Thickness: 5/16" (7.9mm)

Thickness (Polycarbonate):

Maximum Thickness: (unlimited)
Minimum Thickness: 1/16" (1.58mm)

Performance Data:

Parallel Light Transmission:

On: 70% / Total Light: 80%; Haze Range: 5-10%, dependent on type and thickness of substrates used
Off: 5% / Total Light: 75%; Haze Range: Full, dependent on type and thickness of substrates used

Switching Speed:

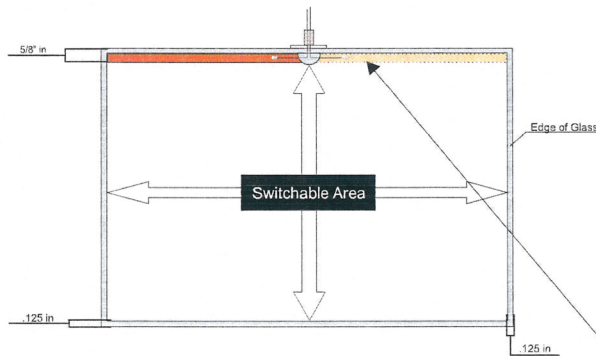
Private to Transparent: Approx 1 ms
Transparent to Private: Approx 1 ms

Operating Temp:

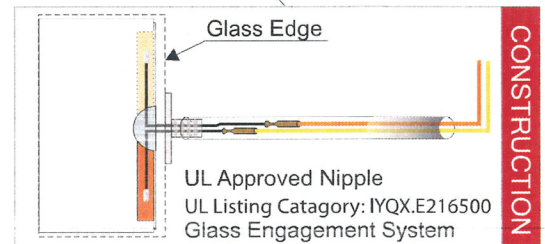
0-60°C

Power Leads:

Leads generally exit top center of panel - 10' of lead standard



WARNING!
DOW 1199 MUST OUT-GAS TO THE ATMOSPHERE DURING CURE, FRAMES WILL PREVENT PROPER CURING



UL Approved Nipple
UL Listing Category: IYQX.E216500
Glass Engagement System