Smart Glass

SFB SMART-FILM-BLINDS

Switchable Privacy SGULLC.0110 Specifications

Function:

Provides instant switchable privacy for a translucent, 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.

Method of Action:

Electrical current either aligns or randomizes liquid crystals to achieve desired transparency. (Default is Private)

Glass / Polycarbonate
LTI Clear Adhesive Package
LTI Electrified Privacy Film
LTI Clear Adhesive Package
Glass / Polycarbonate

CONSTRUCTION

This product is manufactured using ANSI Z97.1 for laminated safety glass construction

Dimension:

Maximum width: 54" (1371mm)
Maximum length: 120" (3048mm)
Larger custom sizes available.

Thickness (Glass):

Maximum Thickness: (unlimited)
Minimum Thickness: 5/16" (7.9mm)
[average thickness @ 7/16"]

Thickness (Polycarbonate):

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

Energy Data:

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

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
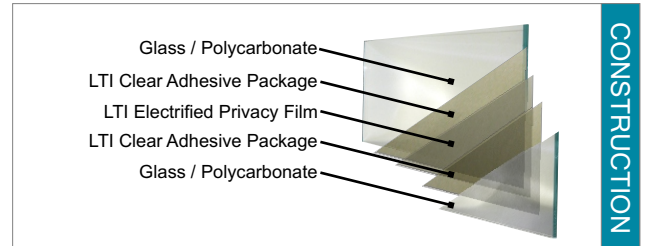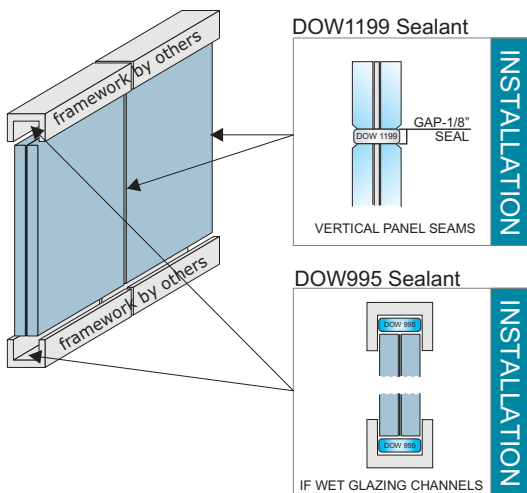
Switching Speed:

Private to Transparent: Approx 7 ms
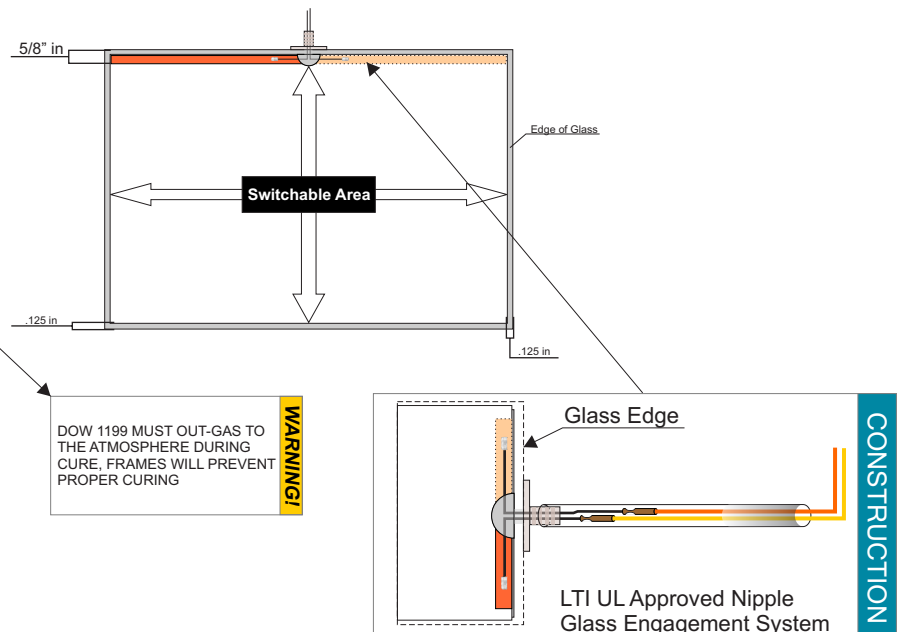Transparent to Private: Approx 17 ms

Operating Temp:

0-70°C

Installation Data:

Wet Glazing Sealant Specification:

See LTI LC installation manual for additional glazing details and cautions

framework by others

DOW1199 Sealant
DOW 1199
GAP-1/8" SEAL
VERTICAL PANEL SEAMS
INSTALLATION

DOW995 Sealant
DOW 995
DOW 995
IF WET GLAZING CHANNELS
INSTALLATION

Power Leads:

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

5/8" in
Switchable Area
Edge of Glass
.125 in
.125 in

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

Glass Edge
LTI UL Approved Nipple Glass Engagement System
CONSTRUCTION