

[www.ElmontGlass.com](http://www.ElmontGlass.com)

Est 1949

## Switchable Glass Features & Benefits

**Principle**-How is this possible? The secret of the transformation between clear and translucent state is found in the Liquid Crystal Sheet within the laminated glass panel. The randomly aligned Liquid Crystal molecules are such that it disperses light. However, when voltage is applied, these same molecules arrange themselves in a specific direction in such a way as to permit parallel light to pass through the glass thereby allowing vision

**Features Response time**-The response time from translucent to clear is approx.1/1000 sec. and from clear to translucent can be achieved in approx.1/100 sec.\_

**Liquid Crystal Sheet Size** With continuous research and development efforts, Liquid Crystal sheets are now available in a size up to 39" x 120", or 990 x 3048mm making expanded applications possible in many fields.Larger Sizes coming soon  
By Butting Glass to Glass unlimited sizes are available

**Low power consumption**-The electrical power required to operate the switchable light control is only .32W/sq ft. (3.5W/sq meter) and no special maintenance is also required. Thus, the tremendous benefits of the material are realized at a very inexpensive operating cost.

**Laminated glass and plastics composition provides an added safety and durability feature** -A key advantage of Elmont Glass is the companies alliance with experts in laminating common and advanced materials – especially electrified films. Our Team has years of experience in laminating electrified films making our company a pioneer . The lamination configuration and processes can be designed to meet your application needs, from simple compositions to bullet and hurricane resistant designs. Our processing and material selection yields a high quality product with excellent optical properties unique to the industry.

**Sensor capabilities and possibilities**-As the laminated panels are operated with electrical signals, the possibilities are endless. As long as response signals can be converted to electrical signals, it is possible to incorporate sensor technology within the panels, expanding the application possibilities-Including use as a projection screen

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