

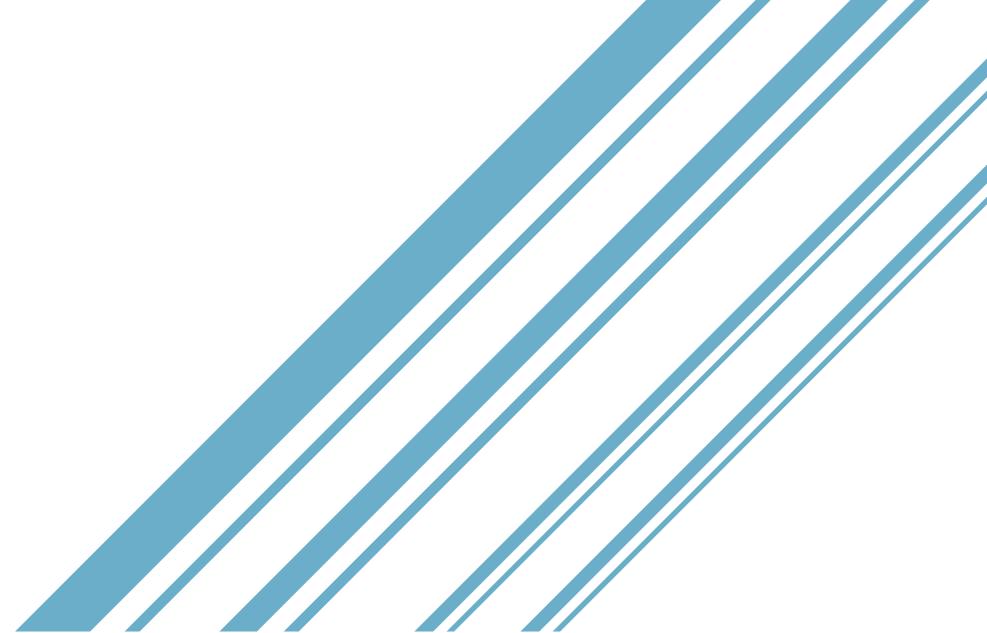


# LUMIGLASS INDUSTRIES LLC

The leading edge in glass enhancement.

## INDEX

|                                 |       |
|---------------------------------|-------|
| Company Profile                 | 4     |
| Product Range                   | 6-12  |
| Organization Chart              | 14    |
| Management & Technical Staff    | 15-16 |
| Facilities                      | 18-19 |
| Quality Policy/Procedures       | 21-22 |
| Company Contacts & Location Map | 23-24 |



## COMPANY PROFILE

Established by Dubai Investments PJSC in the Al Quoz Industrial City of Dubai in 2003, Lumiglass Industries has moved to a secure position as a leading producer in the Middle East for all types of architectural and automotive laminated glass for use where safety and security are of the highest importance.

Today, Lumiglass Industries is a vital component of Glass LLC, a subsidiary holding company of Dubai Investments, and which was created to establish a vertically-integrated flat glass industry in the UAE, producing glass from raw materials through to finished product. Since the beginning of 2009, Lumiglass Industries has procured its entire supply of raw float glass from its sister company, Emirates Float Glass LLC, located in Abu Dhabi, thus greatly enhancing the local content of its range of architectural and automotive laminated glass products.

Benefitting from its position in such a massive and diverse Industrial Group under the umbrella of Dubai investments, Lumiglass Industries is a secure and reliable glass-processing company with an invested capital of 8 million US Dollars, employing the latest technology and equipment to make laminated safety glass, including Bullet Resisting Glass of which Lumiglass Industries is now the biggest producer in the GCC.

Included in LGI's impressive range of modern glass-processing equipment are a Tamglass Autoclave (one of the largest in the World) with a capacity for laminated sheets up to 6000 x 2500 mm, a fully automated Robotech pre-processing line, digital ceramic frit screen-printing, and two Tamglass continuous-carrier bending furnaces.

The manufacture of laminated glass for buildings greatly depends on the logistics imposed by the huge daily flow of customized orders, each one different from the next. This highly challenging situation is also true for automotive windscreens where a vast number of moulds, or patterns, must be kept in stock to meet the immensely variable demand for this product-range. At LGI, good production-planning is the key to success by ensuring optimum use of raw material stock and production equipment, and also to ensure that the finished laminated glass goes out on time.

Nevertheless, good teamwork and modern equipment have to be backed up by good references, and LGI is supported by an impressive array of quality certifications and compliances which allows it to compete in international markets. For instance, LGI is the first company in Dubai to attain ECE R-43 , D.O.T. 80 , ANSI , M-marks and ASI accreditation . Furthermore, for impact safety in buildings, LGI's laminated glass is certified to American Standard ANSI Z97.1 and British Standard BS 6206, and also meets the requirements of Australia & New Zealand under their AS/NZ 2208 Standard.



B7 BRG with gunport



## PRODUCT RANGE

Bullet Resistant Glass • Automotive Windscreen • Architectural Glass

### BULLET RESISTANT GLASS

Security glazing with multi-ply laminated glass of appropriate thickness and configuration can reduce death and injury from bullets in high-risk occasions, while still providing the aesthetic and transparent qualities of normal glass. LGI's BRG glasses are tested to meet international standards.

LGI's BRG manufactured employing the Lumiglass laminating process where multiple layers of glass and PVB are subjected to elevated heat and pressure, permanently bonding the individual components into one complete panel. Construction can be customized to include tinted glass, tinted or obscure interlayer, reflective coatings and one-way mirror, with certain curved configurations also possible.

Holes, cut-outs and shapes are available but may involve some limitations.

Lumiglass has the manufacturing capabilities and technological experience to meet a wide range of weapon threats, from small hand guns to high-powered rifles and shotguns.



Image 01  
Fleet of Toyota Land Cruisers fitted with LGI BRGs

Image 01  
BRG sidelite product shot



## PRODUCT RANGE

Bullet Resistant Glass • Automotive Windscreen • Architectural Glass

### AUTOMOTIVE WINDSCREEN

Front ▪ Sidelites ▪ Backlites

LGI manufactures windscreens, backlites and sidelites for all models of vehicles. Lumiglass Industries LLC has obtained all the required quality standards to enable it to supply both O.E.M. as well as the replacement market. Examples of these standards are; ECR-43, ANZI , D.O.T., M-marks and ASI mark. LGI's products are also certified to the American ANZI Z 97.1 standard which also complies with the requirements of the British BS 6206 and the Australian & New Zealand AS/NZ 2208 standard.

Our automotive glass is fabricated with precision and accuracy for proper fitting within the defined area of the windscreen frame. Lumiglass supplied 400 models of Japanese; European and American cars, trucks, and buses to 20 countries.



## PRODUCT RANGE

Bullet Resistant Glass • Automotive Windscreen • Architectural Glass

### ARCHITECTURAL GLASS

Priva-Lum • Blind-Lum • LED Glass

Among the broad range of architectural glasses that LGI is capable of manufacturing, we also have the following new products:

#### Priva-Lum

Priva-Lum is a remarkable type of laminated glass in which the plastic interlayer contains a liquid crystal matrix arranged so that the LC molecules are positioned at 90 degrees to incident light, giving a solid, opaque appearance to the glass. However, when energized with low-voltage electric current, the LC molecules re-arrange themselves parallel to the light which can now easily pass through the laminated glass sheet changing it from opaque to transparent. PRIVA-LUM privacy glass is an ideal solution for any location in any type of building where temporary privacy is required, avoiding the need for curtains, and can be achieved, *beautifully and instantly, at the flick of a switch!*



Image 01  
Conference Room with Priva-Lum  
turned OFF

Image 02  
Conference Room with Priva-Lum  
turned ON

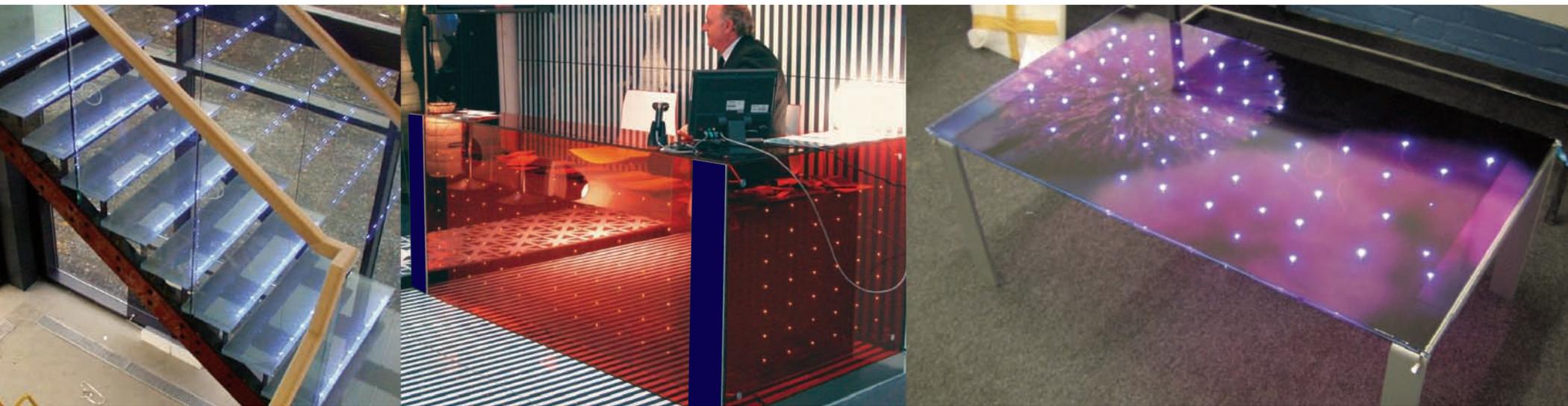


## ARCHITECTURAL GLASS

Priva-Lum ▪ Blind-Lum ▪ LED Glass

### LED Glass

LED Glass is a decorative laminated glass for external and internal applications in buildings where the glass itself is internally illuminated by means of LED's ( extremely low-current Light Emitting Diodes ) wirelessly embedded in the PVB interlayer and linked into a circuit by means of an invisible clear conductive coating. LED laminated glass by LGI offers immense possibilities to interior designers and architects to create vibrant illuminated patterns in glass that can be used in almost every kind of building windows, screens, balustrades, ceilings, skylights ..... *Yes, the sky is the limit with LGI LED glass.*

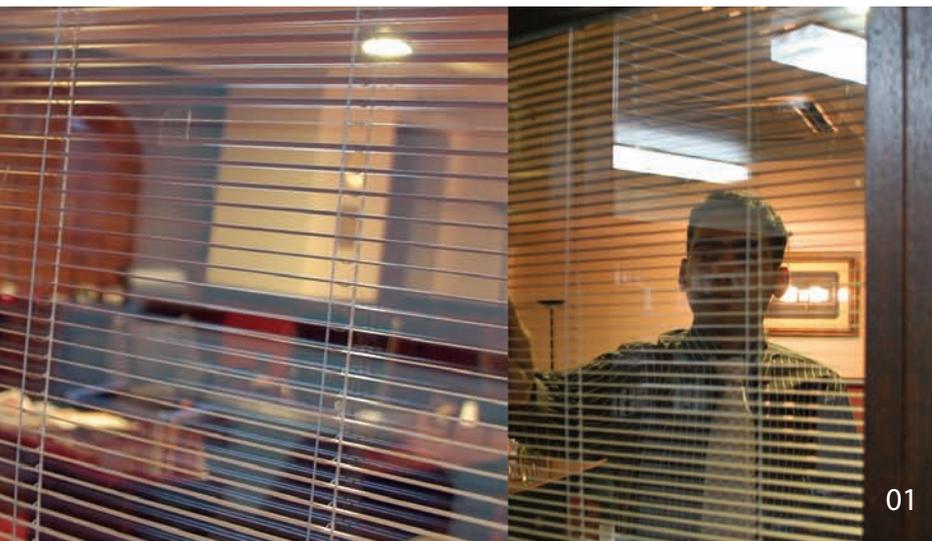


**ARCHITECTURAL GLASS**

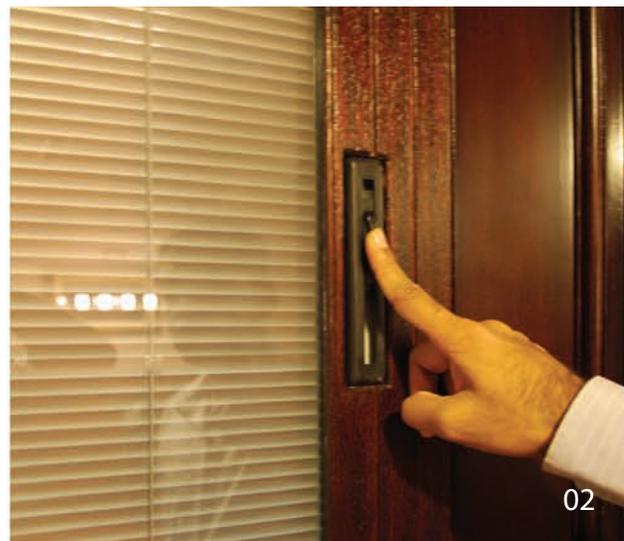
Priva-Lum ▪ Blind-Lum ▪ LED Glass

**Blind-Lum**

Although not a new type of product, LGI have re-introduced Blind-Lum into their product-range to satisfy a growing market for double-glazing where it is necessary to have venetian blinds or fabric mesh, contained within the airspace of the double glazing in order to control light and glare whilst, at the same time, remaining absolutely clean and free from any maintenance. This type of product would be especially suitable for hospital buildings where sterile conditions are vital and where it is highly undesirable to have any dust accumulation on conventional blind-systems.



01



02

Image 01  
Blind-Lum OPEN

Image 02  
Blind-Lum CLOSED



## FACILITY & EQUIPMENTS



### Cutting Machine

A computer-assisted CNC semi-automatic glass cutting table is used to score large sheets of glass, which are then broken out by hand into the individual lites.

| Manufacturer | Bed size  | Occupying space (L*W*H) | Capacity/Shift (8 hrs) |
|--------------|-----------|-------------------------|------------------------|
| Tamglass     | 1400*2700 | 13780*8130              | 480 pairs              |



### Washing and Buffing Machine

Applicable for automatic washing and drying of glass of various thicknesses. The drying is made with powerful hot air drying system. The temperature is automatically controlled and set freely. The transmission speed is controllable.

| Manufacturer | Bed size | Occupying space (L*W*H) | Capacity/Shift (8 hrs) |
|--------------|----------|-------------------------|------------------------|
| Quarant      | 1600     | 7040*2400*1600          | 480 pairs              |



### Bending Machine

The bending furnace utilizes the possibilities of full convection, micro convection and natural convection as well as electrical heating in the glass preheating process to achieve a uniform temperature rise horizontally throughout the surface.

| Manufacturer | Bed size  | Occupying space (L*W*H) | Capacity/Shift (8 hrs) |
|--------------|-----------|-------------------------|------------------------|
| Tamglass     | 1200*2000 | 218750*5455*3530        | 312 units              |



## FACILITY & EQUIPMENTS



### Laminating Machine

Sheet-by-sheet operation with automatic glass centring and flexible pvb handling suits for large size laminates. For small and medium size glass the line can be used in continuous mode for high throughput and great flexibility.

| Manufacturer | Bed size  | Occupying space (L*W*H) | Capacity/Shift (8 hrs) |
|--------------|-----------|-------------------------|------------------------|
| Tamglass     | 1400*2600 | 17800*3640*1125         | 702 units              |



### Autoclave

For final pressing of laminated architectural and automotive glass.

| Manufacturer | Bed size       | Occupying space (L*W*H) | Capacity/Shift (8 hrs)  |
|--------------|----------------|-------------------------|---|
| Tamglass     | 8 meters space | 11900*7100*2100         | 960 units (3hrs/cycle)<br>(Avg 360pcs/cycle) – for windscreen |



## QUALITY POLICY/PROCEDURES

### Quality Policy

The company seeks to provide superior products and services which meet or exceed our customer's expectations. It is our intent to continually improve every aspect of our organization through employee involvement, teamwork and a progressive exchange of ideas. We wish to create an atmosphere which encourages personal growth, pride in one's work and pride in the organization as a whole. The company will maintain the highest moral, ethical and legal standards in all of its business dealings. We will attempt to build long term partnerships with our suppliers and our customers. The company will provide safe and healthy working conditions for all of our employees and be responsible corporate citizens in the preservation of the environment. We will strive to generate a level of profit that insures our continued ability to finance healthy growth for the company and its employees.

Our goal is to achieve total internal and external customer satisfaction and to deliver error-free products on time, with service second to none. We will strive to establish an environment of mutual trust and understanding, which provides for the education, safety, training and empowerment of all the Lumiglass Industries LLC employees.

Our commitment to quality is for continual improvement and continued market leadership. Each employee is committed to produce the best product possible. Our formula for success: People, equipment, training, raw materials, and continual improvement equals customer satisfaction and long-term relationships.

**Sultan Al Zarif**

GENERAL MANAGER

Date: 1<sup>st</sup> July 2009



## QUALITY POLICY & PROCEDURES

### Quality Control Standards

LGI is the first company in Dubai to attain ECE R-43 , D.O.T. 80 , ANSI , M-marks and ASI accreditation . Furthermore, for impact safety in buildings, LGI's laminated glass is certified to American Standard ANSI Z97.1 and British Standard BS 6206, and also meets the requirements of Australia & New Zealand under their AS/NZ 2208 Standard.



## FACTORY CONTACTS & LOCATION MAP

### Head Office

#### **Lumiglass Industries LLC**

PO Box 113744

Al Quoz Industrial Area 4

Dubai, UAE

Telephone: 971 4 340 3919

Fax: 971 4 340 4515

Email: [info@lumiglassindustries.com](mailto:info@lumiglassindustries.com)

Web: [www.lumiglassindustries.com](http://www.lumiglassindustries.com)

### Branches



## FACTORY CONTACTS & LOCATION MAP

