

**Future Architectural Glass LLC**

the benchmark of tomorrow

## About Us

Future Architectural Glass LLC is a company established by one of India's leading glass firms and backed by a Singaporean conglomerate. Built on a 250,000 square feet land in Ras Al-Khaimah (UAE), our glass processing factory is designed considering one single goal: to provide customers premium quality architectural glass products with extremely quick service times. Our cutting-edge European infrastructure is designed to process the most demanding glass types and coatings available.

The architecture of tomorrow promises to be self-sustaining and shall utilize advanced glazing materials that will help preserve and even generate energy. At Future Architectural Glass we have designed our infrastructure to cater to the glass market of the times ahead. We are positioned to deliver a rich source of technical know-how and unparalleled value to our customers.



# Product Portfolio

## eco SHIELD

- An indispensable building material, ecoSHIELD has strength levels up to five times that of annealed glasses.
- Can be supplied in various thicknesses and colour tones.

Application: Building facades, shopfronts, glass railings, partitions, etc.

## eco FACADE

- Specifically designed for building facades and curtain walls, ecoFACADE has excellent optical clarity while maintaining strong mechanical and thermal stress capabilities.
- Negligible risk of spontaneous suicide breakage (no requirement of heat-soaking).
- If broken, fragments usually stay in the window frame and can be easily replaced later.

Application: Building facades and curtain walls.

## eco THERM

- Insulated glass units with two or more glass lite assembly.
- Our sales team will help you select the right glass configuration after a careful study of your building location, the sun-path orientation and budget requirements.

Application: Building facades and curtain walls.

## eco ENAMEL

- A great decorative and functional product, this incorporates custom-designed ceramic paints imposed on glass through an automated silk-screen or roller coating process.
- Imparts style and light-and-heat diffusion characteristics on the glass.
- Play around with stripes, dots, gradients or go with 100% print in an unlimited colour palette.

Application: Spandrel glasses, skylights, canopies and glass walls.

## eco PROTHERM

- ecoPROTHERM utilizes the latest glass substrate and coating technologies to offer superb solar performance and spectral selectivity.
- Offered as a monolithic or in a multiple glazing structure.

Application: Building facades and curtain walls.

## eco LAM

- ecoLAM consists of two or more glass lites unified with a polyvinyl-butyl film, using a careful heating and pressurizing process.
- ecoLAM is indispensable in critical applications where safety is of prime concern.

Application: Point-supported facades, glass railings, skylights, canopies and facades where higher wind-load resistance is needed.

## eco PROLAM

- Heralds the latest and strongest glazing materials and utilizes extremely sturdy ionoplast as the bonding interlayers.
- Interlayers are five times stronger and 100 times stiffer than conventional laminating interlayers resulting in lighter glass that can withstand greater loads.
- Have better clarity and are more resistant to moisture and yellowing (decolourization) over time.

## eco LAMTONES

- Infuse colours in your ideas and let it transform into splendid architecture!
- Wide range of transparent, translucent and opaque coloured interlayers.
- We can even custom-create your colour to exactly create what you visualised!

## eco THEFTPROTEC

- Utilizing heavier glass and interlayer technologies, ecoTHEFTPROTEC is manufactured with comprehensive design details to protect against unwanted intrusions.

## eco BULLETSHIELD

- Consists of multiple glasses and interlayers in varying thicknesses to resist diverse bullet resistances.
- From basic handguns to advanced Kalashnikovs, ecoBULLETSHIELD is designed to exceed the world's most stringent standards for bullet resistance.
- Can even be manufactured for spall resistance to keep you completely safe from glass splinters.

## eco BLASTSHIELD

- Manufactured to exact specifications to resist blast impacts.
- Designed to exceed time-tested standards against blasts, our advanced blast resistant solutions will keep you protected at all times.

Let 100 years  
of combined  
experience work  
for you

### WHAT IS GREEN BUILDING

A different approach to constructing buildings that encompasses concern for energy efficiency, environment, water conservation, use of recycled products and renewable energy.

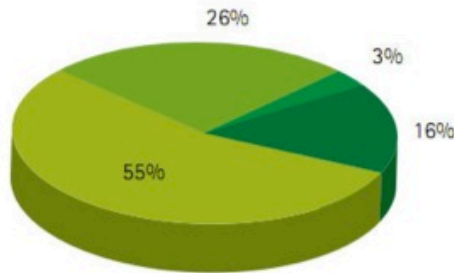
A Green Building extends the lifespan of natural resources, provides human comfort, safety and productivity.

#### IMPACT OF CONVENTIONAL BUILDINGS ON RESOURCES

40%	Primary Energy Use
72%	Electricity Consumption
39%	CO2 Emissions
13.6%	Potable Water Consumption

### Why the right choice of glass is important for Green Building

- Glazing Conduction
- Internal Gains (Light, People, Computers)
- Roof Conduction
- Wall Conduction



### Impact of Glazing on LEED Rating

Glass constitutes 1/6th of the total LEED Rating

LEED = Leadership in Energy & Environmental Design  
System for certifying green building performance  
(As per Indian Green Building Council)



### GROWTH OF GREEN BUILDING →

USGBC membership growth reflects the expansion of Green Buildings in the market

As of September 2009 © U.S. Green Building Council, 2009



## Let Us Work Towards Making Your Building Green!

Modern glazing trends are increasingly shifting towards using high-performance coatings to ensure that glasses are extremely high on spectral selectivity and provide a high-level of solar heat-gain reduction while allowing good light transmittance. Recent advances in coating technology, with multiple silver layers as a coating material, require sophisticated processing equipment and efficient handling systems. At Future Architectural, we possess some of the world's most cutting-edge technologies that cater to the stringent demands of high-performance glass processing.

Unique contact-free setup for coating processing from cutting to insulating ensures perfect preservation of coatings and its performance.

Specialized online automated handling systems and integrated processing setup.

Using German technology, automatic edge-deletion of low-E coatings (including stepped edgedeletion) is performed at the cutting stage itself.

The world's most advanced heat-treatment system (Uniglass, Finland) incorporates top-and-bottom turbo-charged forced convection heating, capable of tempering coatings with emissivities as low as 0.01.

The laminating system also utilizes the world's best (Benteler, Germany) convective heating system for perfect sealing of these modern coatings and consequently provide you with the highest safety levels of glazing.

Centralized water purification system for minimizing conductivity to guarantee absolutely perfect cleaning of all coating types.

Little wonder then, the world's top glass manufacturers have certified us to process their latest glass types! Our qualified sales team shall gladly advise you on the most suitable glass type for your green building requirement.



INDIA

SRI LANKA

BANGLADESH

KENYA



USA

AFRICA

MIDDLE EAST



# World Class Infrastructure



Uniglass Tempering Machine



Forvet Drilling Machine



Hegla Cutting Machine



Busetti Double Edger



Ashton Seaming Machine



Lisec Insulation line

MACHINE	BRAND	COUNTRY OF ORIGIN	CAPACITY	SPECIALTY
CUTTING	Hegla	Germany	3300 x 7000	Fully automatic loading system with integrated edge deletion for silver-based low-E coating removal and cutting precision with tolerance of 0.15mm
ARRISSING	Ashton	United Kingdom	2500 x 4000	High speed horizontal seaming with integrated edge-smoothing combined with in-built filtration ensures zero contact and no damage to sensitive coatings
WASHING	Benteler	Germany	2500 x 5000 (thickness up to 50mm)	Integrated with edging and seaming, a fast horizontal washing system provides online glass transfers for all glass types and performs brilliantly with Low-E coatings
DOUBLE-EDGING	Intermac Busetti	Italy	2600 x 4800 (thickness up to 19mm and speed up to 8 m/min)	Edge-grinding, arriasing and polishing - an all-in-one machine with two integrated edgers to minimize contact with glass surfaces
FABRICATION	Forvet	Italy	2500 x 4500 (thickness up to 19mm diameter up to 65mm)	8-tool spindle system minimizes tooling change time and can perform drilling and milling operations for all types of glasses
TEMPERING	Uniglass	Finland	2600 x 4800 (3.2mm to 25mm)	Industry's fastest heat-treatment line (up to 30 sec/mm) with top-and-bottom forced convection heating system which ensures minimum warpage and excellent optical clarity. Capable of tempering all glass types including solar glass and triple-silver low-E's.
INSULATING	Lisec	Austria	2540 x 4000 (up to 19mm)	Auto-bender, auto-dessicant filler, auto butyl extrusion, auto-sealing robot - an entirely automatic line to provide the perfect finish and quality
LAMINATION	Benteler	Germany	2600 x 5000 (up to 80mm)	Convective heating system ensures perfect adhesion and sealing of the laminating interlayer with glass and is capable of producing bullet-resistant glasses and ionomer inter-layered glasses



## Future Architectural Glass LLC

Future Architectural Glass LLC, Plot P278-284, P.O. Box 86001, Ras Al Khaimah, UAE  
Phone: +971 7 258 9275, Fax: +971 7 258 9071  
Email: [sales@faglass.com](mailto:sales@faglass.com), Website: [www.faglass.com](http://www.faglass.com)