

TECNOGLASS



The Power of **Quality**

# Enhancing the Skyline with **The Power of Quality**

Single Source Warranty

Single Source Supplier

Low-E Coatings

TecnoBend Bent Glass

Oversize Glass Coater



As an industry leader we follow one vision: **Quality.**

Since 1984, we have been constantly striving to improve the optical quality of our glass. Today, we maintain our commitment to quality by investing in the most innovative technologies, increasing our capabilities, and creating new industry partnerships.

Our brands, Tecnoglass, ESWindows and Alutions, are fully integrated in a state-of-the-art 3 million sq. ft. facility on the northern tip of South America's Caribbean coast where we employ more than 5,800 people. We sell our products in more than 25 countries under a **single-source warranty.**

Our record-breaking technologies, quality control processes, and commitment to growth as an industry leader allow us to supply glass for every use. Including tempered, laminated, insulating, screen-printed, low emissivity and curved glass. Our heat-treated glass is processed under the **Vitro Certified International Fabricator Program**, which limits heat-treated glass' flatness to a new standard.

We are also meeting the growing industry demands like jumbo-sized glass, more efficient Low-E coatings, and highly customized glass, bringing innovative architectural design visions to life. Each of these capabilities are supported by our professional team to ensure on-time delivery and competitive prices.

## FEATURED NEW PRODUCTS



Bent Glass by Tecnoglass

# TECNOBEND

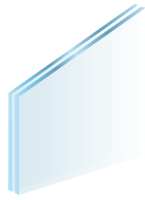
## JUMBO SIZES 130" x 236"\*

MAXIMUM SIZE CAPABILITIES

\*Call us for exact maximum size capabilities.



## LAMINATED GLASS

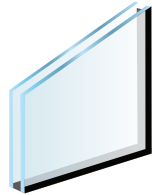


High-performance laminated glass provides durability and meets multi-functional applications such as safety, security, sound control, solar energy performance and ultraviolet screening, as well as hurricane and blast resistance. Our laminated glass achieves this while preserving the aesthetic appearance of the glass.

Because we work to exceed the quality standards of the market, our laminated glass has become our star product. We are the preferred supplier of laminated glass for high-rise constructions in South Florida, where we have flourished despite the state's strict building codes. We are also certified by the SGCC and PVB fabricators to provide all types of hurricane-resistant glass (large missile or small missile impact).

We can provide several layers of lamination reaching up to 4 inches in thickness, in sizes up to 130" x 236".

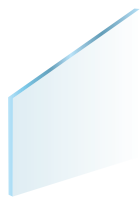
## INSULATING GLASS



Insulating glass is ideal for buildings that require efficient climate control. Inherently, insulating glass increases a window's thermal performance by reducing the heat gain or loss. This type of glass can also reduce noise transmission while protecting building occupants from the weather.

We demonstrate our commitment meeting our customers' demands by creating multi-functional insulating glass products such as curved, laminated, silk-screened or spandrel glass, following standard fabrication processes.

## MONOLITHIC GLASS



Our monolithic glass consists of a single lite of glass that is formed using the float glass manufacturing process. Monolithic glass can be enhanced through additional fabrication processes such as: insulating, design enhancements and added strength.



## HEAT TREATED GLASS

### Heat Strengthened and Tempered Glass

State-of-the-art heat-treated glass, whether heat-strengthened or fully tempered, is a Tecnoglass specialty. Our heat-treated glass is fabricated using the latest technology and is known for its minimum roll wave (lower than ASTM standard) and its excellent optical quality. This allows our customers to display and enjoy the highest quality glass with the least distortion possible.

Heat-treated glass is able to support higher mechanical or thermal stresses than glass that is not heat-treated. The result is reduced breakage risk from external agents or temperature change.

### Applications

Heat-treated glass is commonly used in the construction industry when the maximum amount of safety products are required.

Used in:

- Floating facades
- Building lobbies
- Offices
- Shower enclosures
- Sliding doors
- Project out windows
- Fixed windows
- Storefronts
- Partitions
- Handrails



# QUALITY HAS NO BOUNDARIES

Bent Glass by Tecnoglass

## TECNOBEND

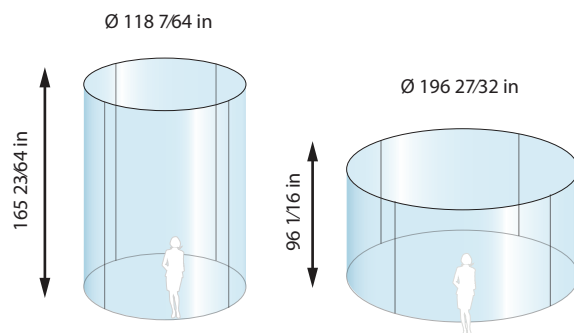
### Curved glass makes buildings flow

The sleek and sophisticated appearance of glass offers unparalleled style, making it among the top material choices for everything from buildings to trophy cases. Curved or bent glass is one of the fastest growing architectural trends as it is being increasingly used to add dramatic movement and dimension to traditionally static structures, taking them to the next level. This trend includes spiral staircases, skylights, elevators, stadiums, zoos, bridges, curtain walls, as well as hundreds of other uses.

### Superior capability, high Low-E tempering

TecnoBEND bent glass is available with tempered Low-E coating in architectural glass sizes. It is also possible to bend and temper a glass coating against the rollers. Bending is performed through gravity bending processes, by pressing the glass against rollers to assure high optical glass quality. We process flat glass in the bending section of the tempering line with a separate chiller.

Beyond new fabrication methods, curved glass also has benefited from the availability of more robust coatings and interlayers. While in the past coatings would warp when glass was bent, new proprietary technology allows us to curve glass while still maintaining its patterns and effects. The coatings and interlayers now available open up a number of new options for curved glass.



Maximum Glass Sizes - four pieces, full circle.

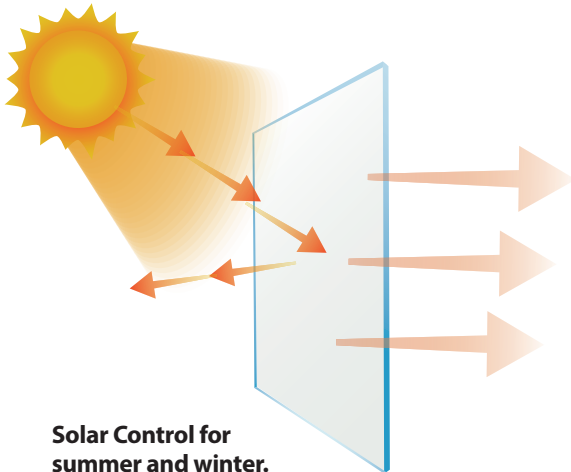
# Solar Control with the latest Low-E technology.



## Low-E GLASS

### Energy Efficiency

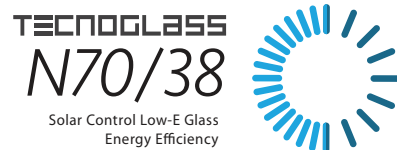
Our solar control Low-E coatings offer big energy savings to any architectural project. These coatings control the amount of ultraviolet and infrared light that passes through glass, while transmitting a similar amount of visible light as uncoated glass. This means building occupants benefit from controlled heat gain, which reduces the need for heating and cooling loads and thus lower electricity costs. Low-E coatings improve the overall performance of glass or windows because they limit heat, -not light, -transmittance.



The R-Series is a full range of high-performance “cool crisp” aesthetic insulating Low-E glass that offers low-to-high reflectivity and visibility and a low Solar Heat Gain Coefficient. These coatings have a neutral brightness that enhances the appearance of low-iron glass as well as various tinted glass.



The N-Series is a full range of high performance neutral to silver blue aesthetic insulating Low-E glass developed to enhance solar control and energy efficiency while offering neutral aesthetics. These coatings offer high levels of transparency, which allows the natural daylight to pass through, even as it reduces glare and UV transmittance.



Tecnoglass offers the perfect Solar Control Low-E glass for summer and winter. Tecnoglass N70/38 is an ideal glass combination as it offers the utmost visual clarity and transparency with the energy-saving benefits of Low-E. This coating reduces a building's overall energy costs.

## ENHANCEMENTS / Design Without Limits

### COLORS

Tecnoglass' lead-free ceramic frit paints are perfect for your building's glass needs due to their consistent color, durability, cost effectiveness, and eco-friendliness. We also offer translucent and opaque (when viewed in reflection with an opaque uniform background) ceramic frit color options for silk-screening.

### PATTERNS

Pick from a variety of standard design patterns or customize the face of the building with your own original design.

### PRINTING

The possibilities for architectural designs are endless thanks to TECNO PRINTING. We've combined the durability of ceramic inks with the versatility of digital printing into one proven solution for all glass-printing applications. It's a revolutionary step in glass fabrication that perfectly combines form with function.

### EDGEWORK

There's more than one way to get your glass edgework with Tecnoglass. You can choose from: Seamed, Flat Belt Ground, Flat Belt Seamed, Flat Ground, Flat Polished or Mitered Edges. Incorporating a mitered edge or silk-screened pattern must be approved before application.

### HOLES & NOTCHES

Tecnoglass can supply you with more options for custom enhancements to monolithic glass with hole-drilling capabilities starting at 3/16" - 3/4" thickness.



WHY WAIT  
FOR **JUMBO SIZE**  
GLASS

when you can have it now?



Larger buildings need larger glass and Tecnoglass is ready to supply up to 130" x 236"\* jumbo-sized sheets of coated, laminated, tempered and insulating glass.

Our commitment to **quality** through continuous investments in new technologies and the expansion of our facilities, allow us to meet the demands of the most innovative architectural designs. The future is now.

**MAXIMUM SIZE CAPABILITIES**

**A v a i l a b l e N o w**

**130" x 236"\***

\*Call us for exact maximum size capabilities.

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

# RECENT PROJECTS



## DISTRIBUTION

The Tecnoglass group is a fully integrated supplier strategically located on the northern end of South America on the Colombian Caribbean coast. Because we control the manufacturing process from beginning to end, we are able to offer a **single-source warranty**. We don't perform random quality control on our products—we inspect every single one of them.

## CERTIFICATIONS

Our Quality Control Program is proof of our constant commitment to surpass accepted quality standards. We are certified by the top companies in the industry to ensure that our products and services stay up to date and comply with the stringent rules and regulations of the industry. Our heat-treated glass is processed under the **Vitro Certified International Fabricator Program** that limits heat-treated glass flatness to a new standard.



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V - October 2019