

TECNOGLASS



The Power of **Quality**

ultra**view**

by Tecnoglass

**TEMPERED GLASS  
NEW STANDARD**



# Introducing ultraview

by Tecnoglass

Tecnoglass is a leading manufacturer of architectural glass and associated aluminum products for the global commercial and residential construction industries.

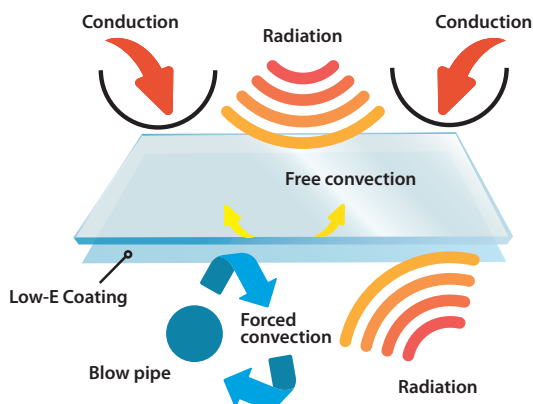
Our record-breaking technologies has made us a one-stop-shop for all glass needs, including tempered, laminated and insulating glass, as well as impact-resistant glazing, low emissivity and curved glass. We are the destination for customers who want high-quality glass that meets custom needs, offering competitive prices and timely deliveries.

As a result of constantly improving our glass' optical quality, its resistance and durability, we have raised the bar becoming the first glass manufacturer in the Americas to deliver fully tempered glass, almost free of anisotropy by offering **UltraVIEW by Tecnoglass**; architectural glass with the highest clarity.

## Excellent Tempering Values with Air Cushion Technology

UltraVIEW is fabricated through a gentle tempering process with the most advanced air cushion technology, where there is no contact with the surfaces of the glass panes as it uses ceramic air cushion instead of rollers, which leads to an even energy transfer into the glass.

This technology allows us to manufacture architectural glass with a new level of **clarity and flatness**; ideal for high end architectural applications.



## A new technology that ensures a safety glass almost free of anisotropy

As it's shown in the image below, a traditional furnace introduces energy into the glass through three different ways: radiation, forced convection and conduction. These three types of energy-transfer slightly impact the glass heat distribution, leading to an increase in anisotropy.

With our new air cushion technology, we impact on forced convection and defect heating or radiation; having no contact with the rollers by using pressured air flow allows us to minimize anisotropy levels and reduce the retention time in the furnace and manufacture tempered glass almost free of anisotropy.

Currently, there are no international standards that classify the permissible anisotropy levels, nevertheless **UltraVIEW by Tecnoglass, guarantees that excellent values above 95% can be obtained. We provide our clients with the best products for the most demanding projects.**

### What is Anisotropy?

Anisotropy, also called iridescence, is a physical phenomenon that appears during the tempering process, mainly in the heating zone, when uneven heat distribution can emerge leading to an uneven stress situation within the glass, affecting the optical appearance.

Stripes or patterns become viewable during certain lighting and viewing conditions. Even though it can cause distracting visual distortions on glass surfaces, the structural form is not affected, and its high quality remains.







## UltraVIEW Specifications

Technical Data	Values
Glass Thickness	1/8" HS 5/32" - 3/8" FT
Minimum Size	7" x 19"
Maximum Size	66" x 196"

Glass Thickness	Maximum Glass Size	Type of Glass
1/8"	53" x 98"	HS
5/32"	66" x 137"	FT
3/16"	66" x 137"	FT
1/4"	66" x 196"	FT
5/16"	66" x 196"	FT
3/8"	66" x 196"	FT

\*Heat strengthened (HS) / Fully tempered (FT)

## DISTRIBUTION

From our offices, our experts create and design products that are brought to life in a 3 million-square-foot mega plant. There we supervise that the highest quality standards are met, from the arrival of the raw material until the finished products are sent to their different destinations allowing us to offer a **single-source warranty**. We don't perform random quality controls on our product - 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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