



ISOCLIMA

YOUR INNOVATIVE TRANSPARENT SOLUTIONS



Automotive

Marine

Military

Railway

Aviation

Architectural


Security



-  Headquarters
-  Manufacturing Facilities
-  Commercial Offices
-  Our Clients

 **MEXICO** | Mexico, Mexicali

 **USA** | Alabama, Selma

 **USA** | Pennsylvania, Blairsville

 **USA**

The Company

The World leader in the market of **high-performance glass**, thanks to the technologies applied and developed over time, ISOCLIMA is committed to the constant pursuit of perfection, quality, and a product developed for the personal **safety** and **protection** of its customers **on Land, Air and by Sea**. ISOCLIMA finds solutions based on the customer's needs aiming for long-term results. Always ready to accept new challenges and to invest in R&D, ISOCLIMA represents the point of reference as the leader in the markets in which it operates.



ISOCLIMA's World

Today, **ISOCLIMA** stands out thanks to the reputation acquired over the years as well as the co-engineering processes that allow ISOCLIMA to be the supplier of the main automotive groups in the world (Stellantis, Mercedes-Benz, BMW Group, VW-Audi Group, etc). The large range of the products that ISOCLIMA can offer is highly appreciated in various markets and sectors, especially for the ever-increasing demand of products with **high quality standards**. A special feature of the company is the ability to respond to every need and to succeed in tailoring the product to the customer's requirements, specifically with reference to resistance and protection.

ISOCLIMA's History

ISOCLIMA was founded in 1977 as a glass processing company for architectural products. Within a short period of time, its emphasis was directed to the **research and development of new technologies** to achieve high ballistic performance transparent composite panels, particularly using glass and polycarbonate. The combination of these two materials laminated together has allowed the company to offer bullet-resistant glazings, with the advantage of being "No-Spall", allowing equivalent performance to existing products but being far thinner and lighter. ISOCLIMA has expanded over time with the acquisition of other important foreign glass companies, such as ISOCLIMA de Mexico S.A. de C.V. in Mexico and Lipik Glas d.o.o. in Croatia.

Since 2017 the whole multinational group has become part of the Stirling Square Capital Partners' portfolio of businesses. In 2021 Isoclima acquired two companies in the USA: Dlubak Specialty Glass, Selma, Alabama, and Global Security Glazing, Blairsville, Pennsylvania.

Aviation

The aviation sector is an important market niche where ISOCLIMA has now been present for several decades.

The strict specifications of the product and the particular optical and impact resistance requirements have in fact constituted a strong motivation for continued growth in terms of quality and company production methodologies.

ISOCLIMA manufactures

- Monolithic or laminated Bird strike-proof windshields made with chemically or thermally strengthened glass, polycarbonate or acrylic for military and civil aircraft and helicopters;
- Acrylic Canopies for military and civil aircraft;
- Passenger windows for aircraft and helicopters;
- Dimmable windows for VIP helicopters and aircraft;

Windshields and windows can be offered with de-icing, EMI (ElectroMagnetic Interference) protection, solar heat control and hard-coating options.

ISOCLIMA can manage the integration of windows with composite or metallic frames to provide “ready to install” products.

Know-how

● *EMI shielding*

ISOCLIMA has capabilities to provide windows with integrated EMI shielding layers through embedded conductive mesh layers or coating deposited with in-house state of art magnetron sputtering equipment.

● *De-icing systems*

ISOCLIMA has capabilities to integrate de-icing systems with transparent coating applied by magnetron sputtering or micro-wires embedded systems.

● *Complex bending*

ISOCLIMA is recognized world-wide as the leader in manufacturing complex shape windows keeping excellent optical qualities. Proprietary equipment and methods have been developed over more than 40 years in the sector.

● *Bird strike*

ISOCLIMA has full capability to develop and test bird-strike proof windshields for aeronautical application with in-house testing facilities.

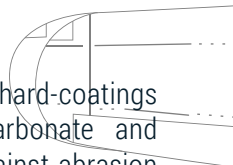
● *Hard-coating*

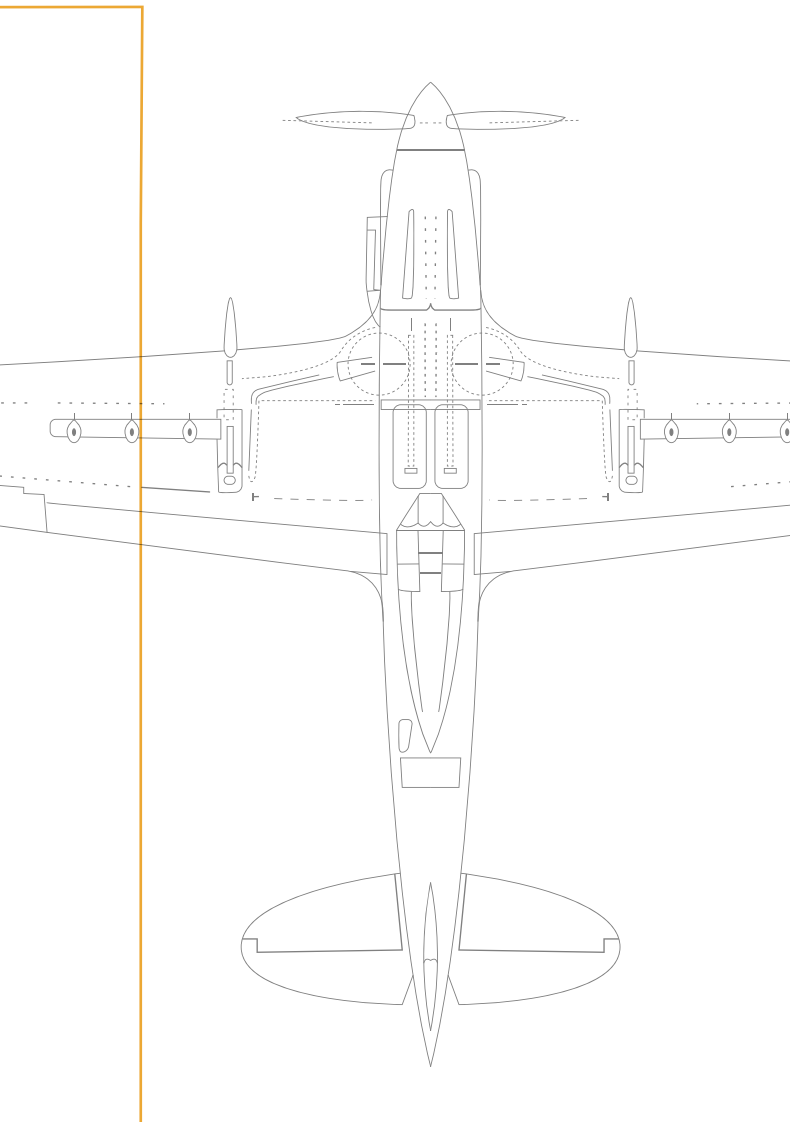
ISOCLIMA has the capability to apply hard-coatings on plastic materials such as polycarbonate and acrylic in order to improve durability against abrasion resistance and weathering performances.

The additional hard-coating layer does not affect optical and aesthetical qualities.

● *Chemical and thermal strengthening*

ISOCLIMA has capabilities to thermal or chemically strengthen glass plies for aeronautical applications to improve the mechanical strength of the glass. The main purpose is to reduce the weight of windshields and increase durability against small debris impacts. These processes reduce the detrimental effect of scratches or surface damages on the strength of the glass.





Products

● IsoLite®

IsoLite® incorporates a PDLC film (polymer dispersed liquid crystals) and has been developed to create welcoming, light-filled interiors that can quickly be converted to private, confidential spaces. When switched off, the IsoLite® panel goes opaque, making it impossible to see in or out.

Ongoing research into developing a panel that can deliver unrivaled levels of clarity, UV resistance, and electrical safety, while maintaining optical qualities, has been rewarded with the creation of IsoLite®, the best solution for switching from clear to a state of translucency practically instantaneously at the touch of a switch.

These excellent properties make IsoLite® suitable for use in numerous industries - from automotive to marine - but, above all, in architecture and interior design solutions, such as partitions in offices and commercial buildings.

● PC Secur

Identifies monolithic or laminated products manufactured with ISOCLIMA proprietary manufacturing methods for polycarbonate sheets. PC SECUR products can be provided with black bands, hard-coating, heating systems and heat solar control coatings or materials.

● EmiGard®

The result of cutting-edge technology, Emigard® is the ideal solution for shielding electromagnetic waves emitted by electronic devices, insulating the vehicle and data being transmitted and making both secure.

EmiGard® is a multi-layered product made up of laminated glass or a glass and polycarbonate composite, incorporating a special shielding system that can consist of a wire mesh or a clear, conductive nano coating, or a combination of the two.

The solution featuring the nano coating ensures great clarity and sufficient electromagnetic shielding to protect sensitive data and to protect people from harmful radiation.

Emigard®, like all the other products conceived in Isoclima's R&D center, is a certified panel that comes with the peace of mind of recognized standards.

Its key markets are the marine, aviation, and military sectors, and all industries that call for a system that can protect data as well as people's health, at the same time delivering perfect clarity.



Our commitment to Sustainability

Isoclima has always been synonymous with cutting-edge products and is constantly evolving, from the point of view of technique, execution, and processing, toward ever improved **environmental sustainability**.

Consolidated strategies on **ESG** (Environment, Social, Governance) issues continue, in a structured manner, the environmental and social initiatives that have always been an integral part of the Isoclima Group.

We are constantly looking for alternative design solutions that allow us to **reduce the environmental impact of our products**.

This is possible, - for example, - through the development of **solar radiation control systems**, effective for filtering ultraviolet radiation or infrared rays, favoring energy savings and consequently reducing emissions into the atmosphere, which is very important for the protection of our planet. This in fact has a number of advantages, such as: **saving energy** from air conditioning, **reducing the heating** of the interior furnishings and consequently means enhanced end customer comfortable.

In addition to this, we continuously develop solutions for **reducing the thickness and weight of our product** through exhaustive testing programmes, which also contributes to reducing energy consumption.

- **CromaLite®**

CromaLite® is a laminated product that incorporates an electrochromic film based on SPD technology (Suspended Particles Device), designed to control solar radiation and vary its tint in a matter of seconds.

The system works based on an electric field capable of orienting the suspended particles inside the film. In addition to boosting sun protection significantly, it also provides excellent visibility and, at the same time, is perfect for creating privacy.

By allowing light transmission to be reduced by anything from 55% to 1%, CromaLite® solutions can be applied in the automotive, marine, aviation and architectural industries.



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