



ISOCLIMA

Product Overview

Fearless innovators. Relentlessly
pushing the boundaries of possibility.

ABOUT US

As the world leader in high-performance transparent solutions, Isoclima is at the forefront of technological innovation, delivering unparalleled quality, precision and protection. We specialize in crafting solutions that blend complexity and customization to meet the unique needs of our customers across Land, Air and Sea.

With a steadfast commitment to security, safety and sustainability, Isoclima sets new benchmarks in performance and craftsmanship. Through relentless investment in R&D, we drive transformative innovation, ensuring our solutions not only meet but exceed the demands of the most challenging applications.

US location:



QUOTE CENTRE

500 Grant Ave East Butler, PA 16029



MANUFACTURING FACILITIES

520 E. Chestnut St Blairsville, PA 15717
616 Selfield Rd Selma, AL 36703

OUR GLOBAL PRESENCE

Isoclima's global presence is a testament to its leadership in advanced transparent solutions. With manufacturing sites and offices worldwide, we create seamless synergy across our departments, ensuring collaboration and expertise are shared across all locations. This integrated approach allows us to deliver exceptional, high-performance solutions, maintaining the highest standards of quality, precision and innovation in every project.

 Headquarters  Manufacturing Facilities  Commercial Offices



ARMORGARD™ ULTIMATE

The ARMORGARD™ Ultimate is a new high-performance security glass product that combines both bullet and forced entry resistance, offering superior protection for life and property. With a 1.3" nominal thickness, it provides built-in chemical and abrasion resistance, making it durable and less prone to damage during installation or cleaning. Certified to meet NIJ 0108.01 Level IIIA for bullet resistance and ASTM F1233-21 Class 3.3 for forced entry, it ensures robust security. Customization options include tinted glass, low emissivity, printed designs, and switchable smart glass, making it versatile for various architectural applications.

ARMORGARD™ BULLET RESISTANT

ARMORGARD™ bullet-resistant glass solutions from Isoclima Specialty Glass are engineered to protect against a wide range of ballistic threats while maintaining optical clarity and durability. These systems combine multiple layers of glass and advanced interlayers with UL-listed no-spall protection to help reduce secondary hazards upon impact. ARMORGARD products are designed for demanding security applications where safety, performance, and reliability are critical.

LEXGARD®

For over 20 years, LEXGARD® Laminates has been a global leader in high-quality security laminated polycarbonates. Recognized worldwide for their engineering excellence, LEXGARD® products combine polycarbonate with polyurethane interlayers to provide varying levels of resistance to ballistic and physical attacks, with durable, abrasion-resistant surfaces. All LEXGARD® products are certified and rigorously tested to meet strict standards for ballistic, forced entry, and blast resistance. Our bullet-resistant solutions are UL listed and tested to a wide range of "no-spall" protection levels, while our forced entry products comply with security and detention industry specifications.

BR-AR15

This product features a nominal thickness of 1.6 inches with no exposed plastic, providing robust protection against 3-shot 5.56x45 M855 rounds with no penetration, as tested per EN 1063 BR5 "S" standards. Available options include tinted or low iron glass, printed spandrel and screen print designs, low emissivity and reflective glass, bird-friendly solutions, insulating glass units (IGUs), switchable smart glass, and tinted or translucent interlayers. These attributes make it an ideal choice for a wide range of security and design applications.

ATTACK & BURGLAR RESISTANT

Isoclima Specialty Glass provide a range of laminated glass products specifically designed for enhanced protection against prolonged physical attacks and burglary. Our Secur-Tem and Secur-Lite X products feature Chem-Tem® chemically strengthened glass or heat-strengthened glass with PVB layers for superior physical attack resistance, making them ideal for institutional settings. Secur-Lite® annealed glass laminates are tailored for retail environments, preventing "smash and grab" burglaries and meeting UL 972 standards. Please note, these products do not offer bullet resistance.

DETENTION & CONTAINMENT

Our Detention and Containment products are designed to provide unmatched security and durability for correctional facilities, jails, prisons, courthouses, and government buildings. Secur-Tem + Poly® products offer the perfect balance of abrasion resistance from glass and impact resistance from polycarbonate. LEXGARD® laminated polycarbonates provide superior protection against physical attacks and ballistic threats, and can be manufactured as Air Gap (AG) units for low-maintenance solutions. Additional options include insulating glass, fire-rated products, tinted glass, one-way vision, and various aesthetic choices. All products are fully tested and backed by our Single Responsibility Program for quality assurance.



ARMORGARD™
Ultimate



ARMORGARD™
Bullet Resistant



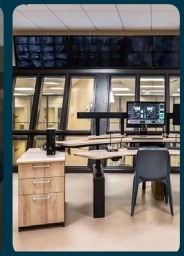
LEXGARD®



BR-AR15



Attack & Burglar
Resistant



Detention & Containment

CHILDGARD®

CHILDGARD® is the tested and nationally recognized security glazing solution designed to enhance protection in schools and educational institutions. Constructed with a proprietary security interlayer, CHILDGARD® is engineered to withstand extensive physical attacks during forced-entry scenarios while maintaining the aesthetics and daylighting benefits of traditional glass. Tested to ASTM F1233 and the new ASTM F3561 standards, it meets safety glazing requirements and can be easily installed in standard doors, windows, and framing systems without the need for specialized installers. Suitable for both retrofits and new construction, CHILDGARD® optimizes security in entryway doors, vestibules, classroom doors, and ground-floor areas, while offering energy-efficient options like high-performance low-E glass.

ACCESSGARD®

ACCESSGARD® Forced Entry Glazing is a high-performance security solution designed for a wide range of applications, including retail, commercial offices, data centers, houses of worship, higher education, airports, and more. Engineered to provide significant forced entry delays against assailants, rioters, and smash-and-grab incidents, ACCESSGARD® protects assets, personnel, customers, and property. Tested to nationally recognized detention standards (ASTM F1233-08), it meets safety glazing requirements and can be installed in standard doors, windows, and curtain wall systems without the need for licensed installers. Suitable for both retrofit and new construction, ACCESSGARD® enhances security while optimizing daylight in access-controlled entryways, vestibules, meeting rooms, and other vulnerable areas.

DECORATIVE GLASS

We offer decorative patterns and graphic silkscreen designs for both flat and bent glass products, with a vast selection of hundreds of design patterns and thousands of colors. From classic stripes and dots to custom artwork, the possibilities are endless. Once you've chosen a pattern, select from standard or custom ceramic frit colors to perfectly complement your metal framing or color scheme. Ideal for applications such as skylights, railings, balconies, stairs, flooring, revolving doors, display cases, spandrel/concealment glazing, and interior offices.



CHILDGARD®



ACCESSGARD®



Decorative Glass

BLAST-RESISTANT

Isoclimate's blast-resistant laminated glass is an ideal glazing solution for buildings at risk of bomb blasts. Featuring a durable interlayer that holds the glass together upon impact, it significantly reduces the risk of flying glass and potential injuries. When paired with a proper framing system, this glazing remains securely in place, enhancing safety. Please note, Isoclimate does not supply framing systems, and the glass must be installed in a project-specific, qualified framing system with proper anchoring to ensure optimal performance.

BENT AND CURVED GLASS

Isoclimate offers specialty architectural glazing solutions, including decorative, specialty, and bent glass options that enhance project design while maintaining a strong focus on safety. Available in a range of thicknesses from 1/8" to 3/4" and with various radius and other shape options available in both annealed and heat-treated variants. Ideal for exterior vision, spandrel areas, insulating glass units (IGUs), skylights, solariums, covered walkways, as well as interior walls, office partitions, handrails, staircases, balconies, revolving doors, and shower doors, Isoclimate provides high-quality, versatile products to meet diverse project needs with bullet-resistant and security options available.

VEHICLE ARMOR

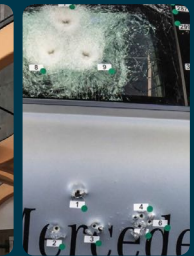
Our Civilian, Commercial, and Military Armored Vehicle Glazing offers high-performance ballistic and transparent armor solutions for a wide range of applications. Isoclimate is a trusted supplier of bent ballistic glass for civilian armored vehicles, such as Suburbans and Tahoes, as well as commercial vehicles, including cash-in-transit trucks. We also provide transparent armor for military applications, ensuring top-level protection in critical environments. Known for exceptional optics, aesthetics, and quality, Isoclimate's products meet the highest standards in the industry. We offer a broad range of standard tooling and protection levels, with custom options available upon request. Our transparent armor solutions are tailored to many major vehicle models, including popular civilian, luxury, and commercial vehicles such as the Toyota Landcruiser, Chevrolet Suburban, and Ford F-Series, as well as high-end and VIP vehicles like BMW, Mercedes, and Porsche.



Blast-Resistant



Bent and Curved Glass



Vehicle Armor

FIRE RESISTANT

Isoclimate Specialty Glass offers a comprehensive range of fire-rated glazing solutions designed to provide protection in various settings. Our INFERNO-ARD series includes fire resistance ratings ranging from 45 to 120 minutes, compliant with UL, ASTM, and CAN/ULC standards, ensuring safety and durability. These products are ideal for doors, windows, transoms, and sidelites in both interior and exterior applications. The ULTIMAX series offers similar fire-rated protection, with options for bullet and detention resistance, providing robust security while maintaining fire protection. Both INFERNO-ARD® and Ultimax provide a combination of security and fire resistance. Alongside these offerings, we provide a wide range of other fire-rated products. All of our fire-rated glass products, including multi-layered polycarbonate and glass laminates, are designed to withstand fire exposure without transmitting heat or flames to the non-fire side, ensuring a safe barrier.

FABRICATED GLASS

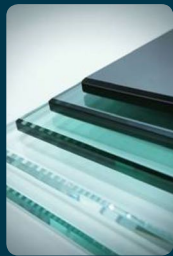
In addition to specialty, decorative and our various security transparencies, Isoclimate Specialty Glass is a premier glass fabricator and laminator servicing residential and commercial applications. We can provide high quality cut, ground, drilled, polished and heat-treated glass products in both monolithic and laminated configurations. We offer a wide array of acoustic, structural, tinted and translucent interlayers to turn your glass concepts into a beautiful reality. Whether it is ¾" [19mm] monolithic low iron glass or 1"+ [25mm] laminated glass, Isoclimate Specialty Glass can meet all your glass fabrication and lamination needs.

SWITCHABLE GLASS

Isoclimate Specialty Glass's switchable glass is an advanced decorative glazing solution that gives designers and building users on-demand control over transparency and privacy. Utilizing state-of-the-art Polymer Dispersed Liquid Crystal (PDLC) technology, this product instantly transitions from translucent to clear at the flip of a switch, allowing natural light to flow while also offering privacy when needed. It's highly versatile for architectural spaces like conference rooms, storefronts, or interior partitions and can be customized with additional features such as tinting, coatings, and integration into insulating glass units to meet both aesthetic and performance requirements.



Fire Resistant



Fabricated Glass



Switchable Glass

CERAMIC FRIT GLASS

Isoclimate Specialty Glass ceramic frit glass combines performance and design to deliver durable, long-lasting visual impact in architectural applications. Using high-temperature-fused ceramic inks, patterns are permanently bonded to the glass surface, creating fade-resistant graphics that stand up to UV exposure, weather, and daily wear. Available in a wide range of patterns, colors, and custom designs, ceramic frit glass helps control solar heat gain, reduce glare, enhance privacy, and elevate aesthetics while integrating seamlessly into curtain walls, façades, spandrels, railings, and interior features.

AQUARIUM GLAZING

Isoclimate Specialty Glass provides high-quality aquarium glazing designed to deliver exceptional clarity, strength, and durability for immersive aquatic environments. These glass solutions are selected to support high water loads while maintaining clear, unobstructed viewing that enhances the visitor experience. Offered in a range of thicknesses and configurations, Isoclimate aquarium glazing is suitable for large panels and complex applications commonly found in public aquariums, zoos, and specialty exhibits where visual impact and reliable performance are essential.

ZOO GLAZING

Isoclimate Specialty Glass provides specialty glazing solutions for zoo environments that prioritize clear viewing and reliable performance for both visitors and animals. Available in coated, low-iron, annealed, and heat-treated glass options, these products offer excellent clarity and durability for a wide range of enclosure applications. Thicknesses can range from approximately 1 to 6 inches or more, depending on project requirements. Laminated configurations using polyvinyl butyral (PVB) or SentryGlas® are available to enhance strength and impact resistance, with optional polished edges offered when specified. These glazing solutions are well suited for zoo exhibits where safety, visibility, and aesthetics are key considerations.



Ceramic Frit Glass



Aquarium Glazing



Zoo Glazing

BIRD FRIENDLY

Isoclimate's bird-friendly glass solutions are specifically designed to reduce bird collisions while maintaining a sleek, modern appearance. Featuring etched, transparent coatings or ceramic frit, these products offer an unobtrusive yet effective solution for bird safety. Additionally, our bird-friendly glass can be combined with energy-efficient low-e coatings, enhancing both environmental performance and building sustainability. For added versatility, these coatings can also be incorporated into bent glass and high-security products, making them ideal for a wide range of architectural and safety applications.

STADIUM GLAZING

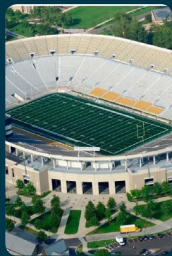
Isoclimate Specialty Glass stadium glazing is designed to enhance spectator experience while meeting the demanding safety and performance requirements of large public venues. Engineered for strength, durability, and clarity, these glazing solutions support expansive sightlines, premium seating areas, concourses, and player-adjacent zones without obstructing views. With options for impact resistance, acoustic performance, and custom finishes, Isoclimate's stadium glazing helps architects and venue owners create open, engaging environments that balance aesthetics, comfort, and protection.

VISIONGARD® X

VISIONGARD® X is an advanced selective-visibility glazing solution designed to provide privacy without sacrificing observation or light transmission. Engineered for secure and controlled environments, VISIONGARD® X allows clear viewing from one side while maintaining visual obstruction from the other, eliminating the need for reflective coatings or electronic systems. Ideal for applications such as correctional facilities, secure offices, law enforcement spaces, and sensitive interior environments, VISIONGARD® X enhances safety, discretion, and situational awareness while integrating seamlessly into architectural glazing systems.



Bird Friendly



Stadium Glazing



VISIONGARD® X

VISIONGARD®

Isoclimate Specialty Glass VISIONGARD® is a versatile privacy glazing solution designed to control visibility while maintaining light transmission and architectural appeal. Using printed and patterned glazing technologies rather than reflective coatings, VISIONGARD® creates effective one-way or obscured vision solutions ideal for secure, commercial, and institutional environments. Well-suited for applications such as correctional facilities, offices, observation areas, and interior partitions, VISIONGARD® balances privacy, safety, and design flexibility while integrating seamlessly into a wide range of glazing systems.

DICHROIC GLASS

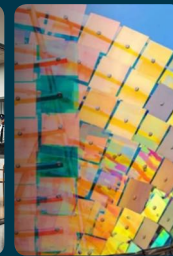
Isoclimate Specialty Glass dichroic glass delivers a striking visual effect by shifting color and light depending on viewing angle and lighting conditions. Created through advanced coating technology, this glass reflects and transmits different wavelengths of light, producing dynamic, iridescent finishes that elevate architectural and interior spaces. Ideal for feature walls, façades, partitions, railings, and artistic installations, dichroic glass adds depth, movement, and modern sophistication while maintaining the performance and durability expected in architectural glazing applications.

DECOGARD™

Isoclimate Specialty Glass DECOGARD™ is a decorative glazing solution that blends visual impact with performance-driven glass fabrication. Designed to enhance architectural expression, DECOGARD™ offers a wide range of custom design options including printed patterns, ceramic frit, and specialty finishes that bring depth and character to both interior and exterior spaces. Ideal for applications such as façades, partitions, railings, spandrels, and feature elements, DECOGARD™ allows architects and designers to achieve bold aesthetics while maintaining the quality, durability, and precision expected from Isoclimate Specialty Glass.



VISIONGARD®



Dichroic Glass



DECOGARD™

CHECK OUT OUR VIDEOS



ACCREDITED BY



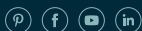
ALL OF OUR PRODUCTS ARE COVERED UNDER OUR SINGLE RESPONSIBILITY PROGRAM FOR QUALITY ASSURANCE.

CONNECT WITH US

Get in touch with our experts and choose the future of transparent solutions.

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