

ISOCLIMA SPECIALTY GLASS



ISOCLIMA
Specialty Glass, LLC 

Global
Security Glazing

COMPANY OVERVIEW

2025

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OUR STORY

The story of Isoclima Specialty Glass is a profound narrative of unwavering dedication to innovation and security. Rooted in the legacies of Dlubak Specialty Glass and Global Security Glazing, Isoclima has emerged as a leader in the security and specialty glazing industry. We specialize in creating glass solutions that not only meet but exceed expectations in safety, performance, and aesthetics across sectors such as education, retail, detention, military, and transportation. Our mission continues to be about enhancing protection and striving for excellence, all while prioritizing the security of the most valuable.

ISOCLIMA'S U.S. LOCATIONS

**QUOTE
CENTER**



500 Grant Ave East Butler, PA 16029

**MANUFACTURING
FACILITIES**



520 E. Chestnut St Blairsville, PA 15717

616 Selfield Rd Selma, AL 36703



All of our products are covered under our Single Responsibility Program for quality assurance.

Disclaimer:

Product information in this catalog is for reference only and may vary based on installation and conditions. Products are subject to availability and may change without notice. Consult a professional for specific project needs. The company is not liable for errors or omissions. Follow local codes and regulations for installation.



ARMORGARDTM ULTIMATE

ARMORGARDTM 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.



ARMORGARDTM BULLET RESISTANT

We provide a wide range of ARMORGARDTM bullet-resistant products designed for protection against various ballistic threats. Our solutions combine multiple layers of glass and polyvinyl butyral (PVB) with UL Listed "no spall" protection. The Secur-Tem + Poly® line offers durable, lightweight options by combining glass and polycarbonate for enhanced resistance. LEXGARD® products use polycarbonate and polyurethane interlayers for high ballistic and attack resistance, while Advanced Transparent Armor (ATA) products offer a lightweight yet effective ballistic solution. Additionally, we offer insulated glass options through the Vitro Certified Laminator and Guardian Select Programs for energy efficiency, and our architectural security products can be customized with tinted substrates, etched surfaces, or ceramic frit printing.





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

BR-AR15 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

Isolima provides 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

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.





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 delay 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.





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 VIP vehicles like BMW, Mercedes, and Porsche.



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 & CURVED GLASS

Isoclima 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, Isoclima provides high-quality, versatile products to meet diverse project needs with bullet-resistant and security options available.



DECORATIVE GLASS

Isoclima offers 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.





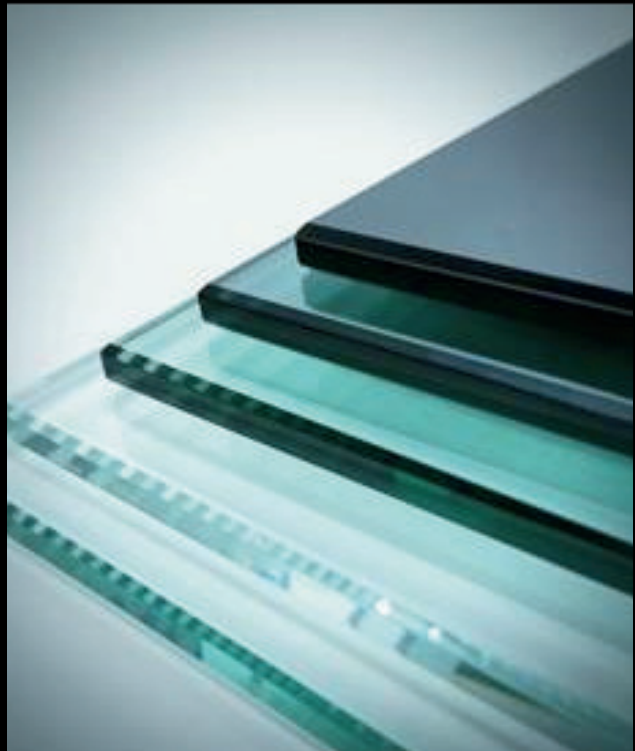
FIRE RESISTANT

Isoclima's fire-resistant glazing products are expertly designed to handle extreme conditions, providing essential protection against heat, flames, and smoke. Our portfolio includes two primary types of fire-resistant glass: Fire Protective and Fire Resistive. Fire Protective glazing is engineered to block flames and smoke, making it ideal for safeguarding escape routes and high-risk zones within buildings. Meanwhile, Fire Resistive glazing goes a step further by also reducing heat transmission, helping to maintain cooler temperatures on the non-fire side of the glass. Both types are rigorously tested to comply with ASTM E119 and UL 263 standards, ensuring their reliability and performance in critical situations. This makes our fire-resistant glazing solutions indispensable in any building's safety strategy, helping to preserve life and property while allowing for safe evacuation during emergencies.



FABRICATED GLASS

In addition to specialty, decorative and our various security transparencies, Isoclima 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, Isoclima Specialty Glass can meet all your glass fabrication and lamination needs.





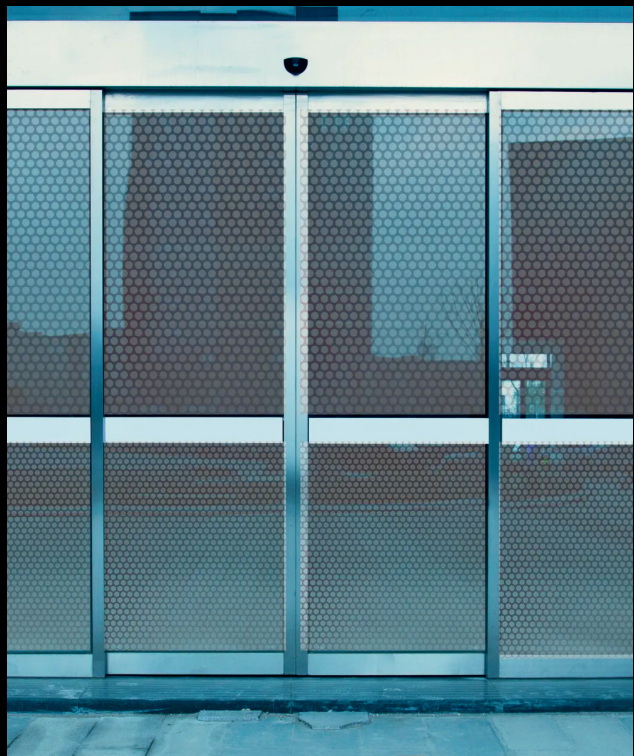
SWITCHABLE GLASS

Isoclima's switchable glass offers transformative solutions for both privacy and open spaces, using advanced Polymer Dispersed Liquid Crystal (PDLC) technology. With a simple switch, this glass transitions from a translucent state to clear, allowing for instant control over visibility and light. Available in thicknesses ranging from 5/16" to over 12", and up to dimensions of 70x120 inches, it is ideal for a variety of settings including windows, doors, and partitions. Our switchable glass can also incorporate additional features such as tinting, low-e coatings, and is compatible with insulating glass units and warm edge spacers. This versatility makes it suitable for both residential and commercial applications, enhancing functionality without compromising on style.



CERAMIC FRIT GLASS

Ceramic Frit glass is tailored for both durability and design flexibility, making it suitable for a wide range of applications from exterior glazing to interior decor. This glass is available in a variety of standard and custom screen-printed designs, applied to either heat-strengthened or tempered glass to ensure longevity and performance. Our offerings include highly durable exterior products perfect for overhead glazing, spandrels, and partitions that enhance glare mitigation, as well as interior applications such as office cubicles, railings, and walkable surfaces. With a broad palette of standard colors like Black, Solar Grey, and Warm Grey, and the option for custom hues, our Ceramic Frit glass combines aesthetic appeal with practical functionality, meeting stringent industry standards for quality and durability.





AQUARIUM GLAZING

Isoclima specializes in providing advanced aquarium glazing solutions that are designed to meet the unique demands of marine environments. Our high-impact, resistant glass ensures the utmost safety and security for both aquatic life and visitors. Engineered to withstand significant pressures and resist the corrosive effects of saltwater, our glazing products maintain exceptional clarity and durability over time. We offer a range of customization options to perfectly match the specific needs of each project, including various thicknesses and dimensions suitable for large-scale displays and specialized habitats. Our commitment to innovation in aquarium glazing supports visually stunning, yet secure aquatic exhibits.



ZOO GLAZING

Isoclima's specialty zoo glazing enclosures are designed to provide optimal visibility and safety for both visitors and animals. Featuring coated, low iron, annealed, and heat-treated glass, these enclosures offer exceptional clarity and durability. With overall thicknesses ranging from 1 to 6 inches and higher, they can accommodate a variety of enclosure requirements. Laminated with polyvinyl butyral (PVB) or SentryGlas for added strength and impact resistance, these enclosures also come with polished edges for a clean, seamless finish. Ideal for zoo environments, our specialty glazing ensures a safe and aesthetically pleasing experience for all.





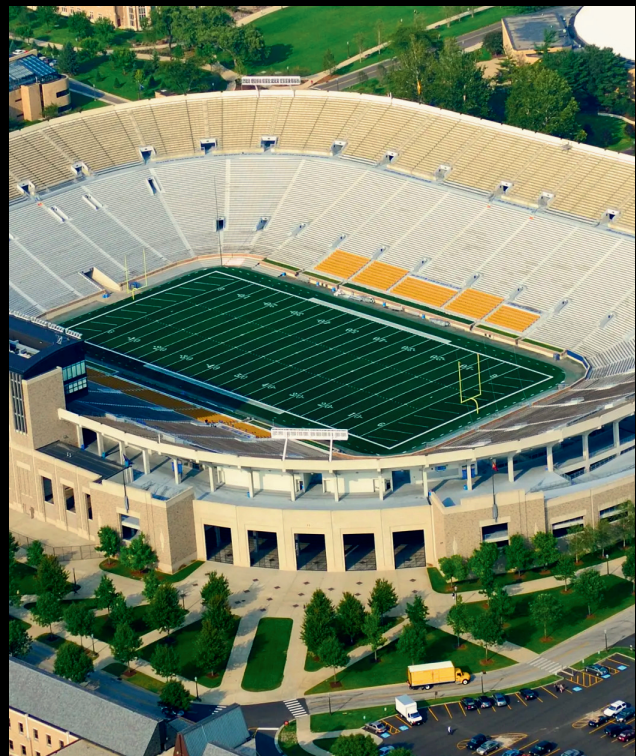
BIRD FRIENDLY

Isoclima'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

We enhance the spectator experience with our Custom Specialty Glass, meticulously designed for stadium glazing applications. Our robust laminated glass combines high visibility and paramount safety, perfect for shielding fans while providing clear views of the action. Ideal for uses ranging from luxury boxes to protective barriers along the perimeter, our glass solutions are tailored to meet the challenging demands of stadium environments, including impacts and adverse weather conditions. Explore how our stadium glazing can elevate both the aesthetics and functionality of your sports facility, ensuring every event is enjoyed in utmost comfort and safety.





VISIONGARD® X

VISIONGARD® X revolutionizes selective visibility and privacy in various settings, from corporate offices to detention centers. This innovative glass technology allows clear vision through one pane while blocking views through two pieces, enabling visibility into rooms from corridors but preventing sightlines from one room to another across a hallway. It's an ideal solution for maintaining privacy without sacrificing the openness and aesthetic appeal of natural light. Additionally, VISIONGARD® X is laminated with security measures to enhance its protective qualities, making it a practical and elegant choice for environments that require both privacy and security.



VISIONGARD®

Isoclima offers non-reflective one-way vision solutions without the use of reflective metallic glass or plastic coatings. These products can create a one-way vision effect through customizable printed graphics, such as company logos, landscapes, seascapes, or other designs. Options include VISIONGARD® PERF, featuring perforated glass, and VISIONGARD® DOT, with dot or hexagon patterns. Additionally, VISIONGARD® V & H provides inmate-to-inmate privacy while allowing clear observation from the other side. We manufacture our own laminates to ensure high-quality privacy solutions for secure environments.





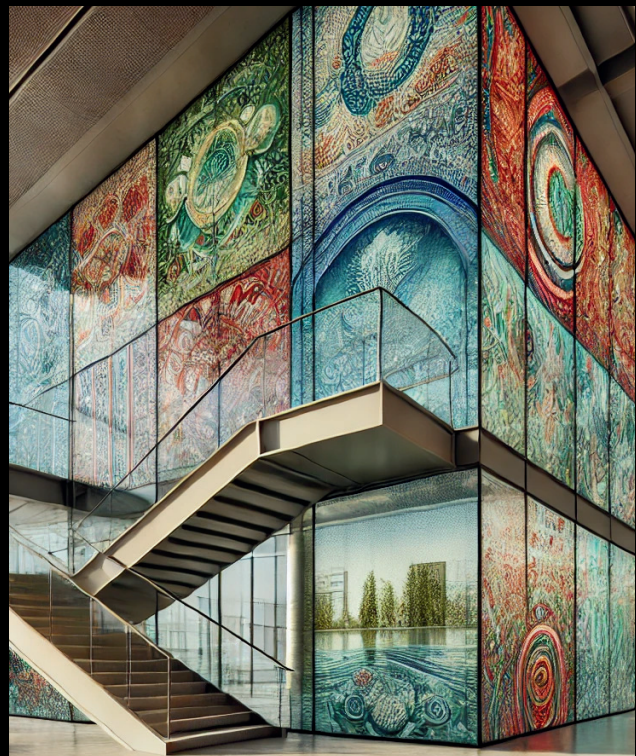
DICHROIC GLASS

Isoclima offers an array of Dichroic Glass options that are ideal for creating visually striking architectural elements. This specialized glass features a unique ability to display two distinct colors simultaneously — one reflected and one transmitted — which varies based on the viewer's perspective and lighting conditions. By embedding different film options into the glass substrate, we enhance the dynamic color shift effects and optical properties of our Dichroic Glass, making it a perfect choice for applications ranging from vibrant facades to captivating interior partitions. This versatility ensures that each installation is not only functional but also a piece of interactive art, enriching spaces with its changing hues and contributing to the aesthetic appeal of any design project.



PRINTED GLASS

Isoclima provides cutting-edge printed glass solutions with screen printing and roll coating options, accommodating sizes up to 80 x 130 inches and 70 x 120 inches respectively. We use water-based ceramic enamels for vibrant, eco-friendly coloration across a diverse palette, compatible with laminated, bent, and insulated glass types. Additionally, our glass can be fully heat-treated for enhanced durability. We also offer non-skid textured frit for slip-resistant applications, compliant with AS/NZS 4586 and ANSI A137.1/A326.3 tests, making our printed glass ideal for both aesthetic designs and functional safety requirements in various settings.





BEHAVIORAL HEALTH AND HOSPITAL GLAZING

Isoclima provides innovative solutions designed to enhance safety and patient outcomes in psychiatric and hospital environments. The PSYCH-2118 product improves patient well-being by leveraging the healing influence of natural daylight, contributing to mood improvement, stress reduction, and better sleep quality. With a thickness of 9/16", this glazing meets ASTM F1233 Class 1.4 standards, providing both security and a positive therapeutic environment. Ideal for facilities prioritizing patient care and safety, it ensures protection without sacrificing the benefits of daylight.



CHECK OUT OUR VIDEOS



PRODUCT
DEMONSTRATION



FEATURED ON
HGTV

Installation Instructions

- Follow the Glass Association of North America (GANA) Glazing Manual and Sealant Manual guidelines.
- Ensure proper clearance to protect products from excessive pressure or glass-to-metal contact.
- Use setting blocks at least four inches long and wider than the glazing at quarter points.
- A weep system should be incorporated into exterior glazing systems.
- Protect surfaces during glazing to avoid damage from paint, plaster, or chemicals.
- Remove protective masking within 15 days if exposed to direct sunlight to prevent staining or difficult removal.

Materials Compatibility ✓

Some materials are not compatible with Global Security Glazing products. Always check compatibility before use.

APPROVED MATERIALS:

- Sealants: DOW DOWSIL™ 795, DOW DOWSIL™ 999A, GE SCS2000 SilPruf™, GE SCS1200.
- Gaskets: Tremco Silicone (70D), Tremco EPDM (60, 70D).
- Butyl Tape: KPTI 303, Isocryl 5600, Tremco 440.
- Setting Blocks: Santoprene or silicone (silicone recommended).
- Incompatible Materials: PVC, EPDM, neoprene gaskets, certain sealants, and setting blocks can cause cloudiness or delamination.

Cleaning Instructions

- Clean using a mild solution of soap and water (a few drops of soap per gallon or liter of water).
- Rinse with clean water and immediately dry the surface with a soft flannel, microfiber cloth, or cotton cloth.
- Ensure no metal, sand, or foreign particles contact the surface to avoid damage.
- Avoid applying cleaners in direct sunlight or high temperatures.
- Do not use sharp instruments, abrasive cleaners, or highly alkaline solutions.
- Regular cleaning of adjacent materials (framing members, door hardware) should follow similar guidelines to avoid exposure to incompatible materials.

Approved Cleaners

Mild Detergents:

- Joy (1ml Joy to 1L clean water)
- Palmolive (1ml Palmolive to 1L clean water)

Spot Cleaners:

- Isopropyl Alcohol (50–99% concentration, diluted with clean water)
- WM&P Naptha or Isopropyl Alcohol for tough residues, followed by thorough rinsing and drying.

Frequently Asked Questions

Q: What is your warranty on glass-clad polycarbonate products?

A: We offer a standard five (5) year warranty from the date of manufacture for glass-clad polycarbonate products.

Q: What are the key features of all laminated polycarbonate LEXGARD® products?

A: Our LEXGARD® products are constructed of laminated plastics (often polycarbonate and high-performance interlayers). These products offer reduced weight, durable abrasion resistant coatings, versatile purchasing, easy fabrication, and an impact resistant nature that will not fracture like glass. These key material properties make LEXGARD® the premier transparency option. While our LEXGARD® products are primarily used in interior applications, we have customers around the world using these materials in exterior vehicle glazing for safety and driver protection. As a plastic laminate, LEXGARD® products do not have the built-in abrasion and chemical resistance of a glass or ceramic product.

Please note some LEXGARD® products may also include acrylic for increased ballistic and small object impact performance.

Q: Is it possible for glass to break in a security transparency, such as the glass in a glass clad polycarbonate laminate?

A: While our security glazing is tested to globally recognized forced entry and ballistic standards, individual glass layers within laminates can break. Even with heavy protection bullet resistant glass, glass breakage is possible and is nearly guaranteed during a ballistic event. If breakage concerns are paramount, such as in a high impact environment, we would suggest a LEXGARD® product as they will offer robust impact performance without breakage.

Q: Is it possible to apply film on my security glass?

A: The application of surface applied film may contribute to increased internal laminate, airspace and sealant temperatures, damage to the glass surfaces and edges due to film installation, incompatibility issues with film or application materials. Breakage, discoloration, or other aesthetic issues may also be attributable to film installation. For these reasons, the use of surface applied film will void Isoclima Specialty Glass, LLC/Global Security Glazing's warranty and any warranties on glass coatings from our valued suppliers.

Q: Do you offer insulating units with security glass?

A: Yes, we provide insulating options for nearly all our security glass products. Options include tints, spandrel, pattern frit, bird friendly and high-performance low emissivity coatings. We offer standard aluminum spacers, and warm edge options such as stainless steel or metal/polymer hybrid. Our Insulating glass units are tested and certified for durability by IGCC.

Q: What is the thinnest bullet-resistant product available?

A: The thinnest bullet resistant all plastic is laminate is our UL 752 Level 1 LEXGARD® MP750, nominally ¾". The thinnest glass/exposed polycarbonate laminate is our UL 752 Level 1 SP175, nominally ¾". The thinnest all glass laminate is our UL 752 Level 1 BR113, nominally 1-1/4".

Q: What is the thinnest insulated bullet-resistant product available?

A: Currently, our thinnest UL 752 listed insulated product measures 1-9/16" and comprises a ¼" Outboard + ½" Airspace + 7/8" UL 752 Level 1 Secur-Tem + Poly SP188.

Q: What is the difference between bulletproof vs bullet-resistant products?

A: The term "bulletproof" is a misnomer. The variety of weapons, projectiles and velocities allow for immeasurable impacts on ballistic materials. Our bullet resistant products are designed and certified to resist specific threats as defined in ballistic test standards. Many of our products are tested to NIJ 0108.01, EN 1063 and UL 752. Our vast array of UL listed products ensures the consumer that our transparencies are subjected to a vigorous follow up testing protocol to ensure ongoing life safety.

Q: What types of bullet-resistant products are available?

A: We provide a wide array of bullet resistant products, tested to UL 752, NIJ 0108.01 and EN1063. We offer UL 752 products in all glass, all plastic (LEXGARD®) and glass/exposed polycarbonate laminates. Please contact us for all your bullet resistant needs.

Frequently Asked Questions

Q: What are the key features of All Glass bullet resistant products?

A: Our All Glass bullet resistant products are multiply glass laminates that offer superior chemical and abrasion resistance when compared to a glass/exposed plastic laminate. While these robust constructions may weigh more, they offer increased longevity due to no exposed plastic surfaces. These products can be combined with low emissivity coatings, tints, privacy coatings, frit, bird friendly, warm edge spacer options, etc.

Q: What are the characteristics of Glass and Polycarbonate Composite products?

A: Glass and Polycarbonate Composite products feature a design consisting of a glass exterior attack side and an exposed polycarbonate interior safe side, ensuring optimal security. They offer versatility for both interior and exterior applications and can be insulated for added protection and energy efficiency.

Q: What is an Air Gap Unit in security glazing?

A: An air gap unit is comprised of monolithic or laminated plastic (often polycarbonate) on one or both sides, with an airspace cavity separating the layers. As plastics are hygroscopic, these units are not hermetically sealed, potentially allowing for moisture absorption and subsequent passage into the airspace. The lack of a hermetic seal may cause fogging/condensation. As a result, they are incompatible with high performance low-emissivity coatings, if the coating is not embedded inside a glass laminate.

Q: What is UL 752 Bullet Resistance and how does it impact product certification?

A: The Underwriters Laboratories (UL) UL 752 Bullet-Resisting Equipment Standard is a standard that covers bullet resistance from handgun to long gun protection levels. For a product to attain UL certification, it must demonstrate resistance to spalling and bullet penetration, ensuring reliable protection against the prescribed threat. This certification signifies initial compliance with the bullet resistant standard and annual follow up testing, instilling confidence in the product's performance and reliability. Please note Isoclima Specialty Glass, LLC/Global Security Glazing's products are tested to the more demanding UL 752 Outdoor use requirements, which includes severe conditioning prior to testing.

Q: What is the significance of "no spall" or "low spall" in bullet-resistant glass?

A: Spall is defined as fragments that can break and become dislodged from the transparency. These fragments are often splinters of glass, plastic or bullet materials thrown towards the intended safe side during a ballistic impact. A "no spall" product will exhibit no spall or no sufficient spall that will damage the indicator/witness panel during a ballistic event. A "low spall" product will protect against bullet penetration but will exhibit spalling/splintering during the ballistic event.

The UL 752 Standard is complete protection that does not allow for any fragments to embed or damage the cardboard witness panel. The UL 752 standard does not have a "low spall" acceptance criterion.

Q: Is CHILDGARD® Security Glazing considered bullet resistant?

A: Our CHILDGARD® 2118 product undergoes rigorous testing, withstanding 3 rounds of a .38 special in an 8" Circle, 158-grain lead at 20 feet. It exhibits spall with no bullet penetration, as per HP White -TP-0500.03 standards. Even after a ballistic attack, all our CHILDGARD® products remain substantially intact to provide a barrier for entry unlike conventional monolithic glass or insulating glass units.

Q: Can CHILDGARD® Security Glazing be retrofitted into older frames?

A: Absolutely! While there may be some size limitations, our CHILDGARD® product is designed to be installed in existing frames. Retrofitting CHILDGARD® into older installations not only enhances glazing performance significantly but also provides superior security compared to traditional glazing methods.

Q: What types of high-performance low emissivity coatings can be used for insulating CHILDGARD® Security Glazing?

A: Our most popular coating offerings include Vitro Solarban® and Guardian SunGuard® coatings, ensuring optimal insulation performance for CHILDGARD® Security Glazing installations.

Frequently Asked Questions

Q: What is the recommended installation method for CHILDGARD® Security Glazing?

A: We suggest a minimum 1/2" bite on all edges during installation. Additionally, CHILDGARD® should be wet glazed using high-quality structural silicone to enhance glazing retention in the event of an attack. We recommend applying Dow 995 structural sealant to the interior glazing leg for added security and durability. Although Isoclima Specialty Glass, LLC/Global Security Glazing recommends ½" framing bite, a lesser glass/frame interference has been tested and utilized with success.

Q: Is butt-glazing suitable for CHILDGARD®?

A: While feasible, it's crucial to note that butt-glazing may compromise security transparency. For optimal retention, we recommend a four-sided captured installation, featuring fixed interior stops. This configuration significantly reduces the risk of glass dislodgement. Conversely, a two-side captured installation, such as butt-glazing, poses vulnerability to body or object passage.

Q: What are security GCP products?

A: "Security GCP products" typically refer to security glazing or security glass-clad polycarbonate products. These are specialized materials designed to enhance security and protection in various applications, such as building facades, windows, doors, and other areas requiring resistance to forced entry, ballistic threats, or other security risks. Security GCP products often consist of multiple layers of glass and polycarbonate, laminated together with interlayers to provide high impact strength with the durability of abrasion and chemical resistance exposed glass surfaces. They are commonly used in high-security environments such as detention facilities and critical infrastructure sites.

Q: What are the size limitations for security GCP products?

A: Our maximum size available for any glass/polycarbonate laminate is 60×96". Please contact us for additional options.

Q: What are the available sheet sizes for LEXGARD® sheets?

A: Clear LEXGARD® sheets are offered in sizes 48×96", 60×96", and 72×96", as well as half sheets measuring 48×48", 60×48", and 72×48". For tinted LEXGARD® sheets, the maximum size for most types is 60×96". Please contact us for additional assistance regarding tinted LEXGARD® options.

Q: Is it possible to adjust the thickness of a tested security glazing type to align with a framing system?

A: We cannot modify the thickness of the specified security product. Tested glazing types undergo specific construction development to meet designated performance standards. However, we may have alternative options available to meet your project's requirements. Please contact us directly for further assistance.

Q: Have you always been known as Isoclima?

A: No, Isoclima, a renowned global leader in high performance glass products, acquired Dlubak Specialty Glass and Global Security Glazing in 2021. This strategic move reflects Isoclima's commitment to expanding its presence in North America and enhancing its portfolio of security and architectural glass offerings.

Snapshot of Dlubak Specialty Glass:

Dlubak Specialty Glass, headquartered in Blairsville, PA, traced its roots back to 1947 when Charles F. Dlubak founded Dlubak Studios, a stained-glass company. Under the visionary leadership of Frank Dlubak, the company evolved into a pioneering force in the glass industry, specializing in custom fabricated glass solutions. Dlubak Corporation's expertise spanned flat glass, metal bending, research, and development, with a legacy of innovation and customer-centric approach.

Snapshot of Global Security Glazing:

Global Security Glazing, based in Selma, Alabama, is a leading manufacturer of security, custom architectural, and transportation glass products. Specializing in impact, bullet, blast, and fire-resistant protection, the company's comprehensive product portfolio caters to diverse applications, including prisons, embassies, and armored vehicles. Renowned for its market-leading solutions, Global Security Glazing is sought after worldwide for its quality-sensitive glazing solutions.

Get in touch with us!



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info@isoclimasg.com



isoclimasgroup.com



All data sheets can be downloaded from our website.