

ISOCLIMA SPECIALTY GLASS



ISOCLIMA
Specialty Glass, LLC 

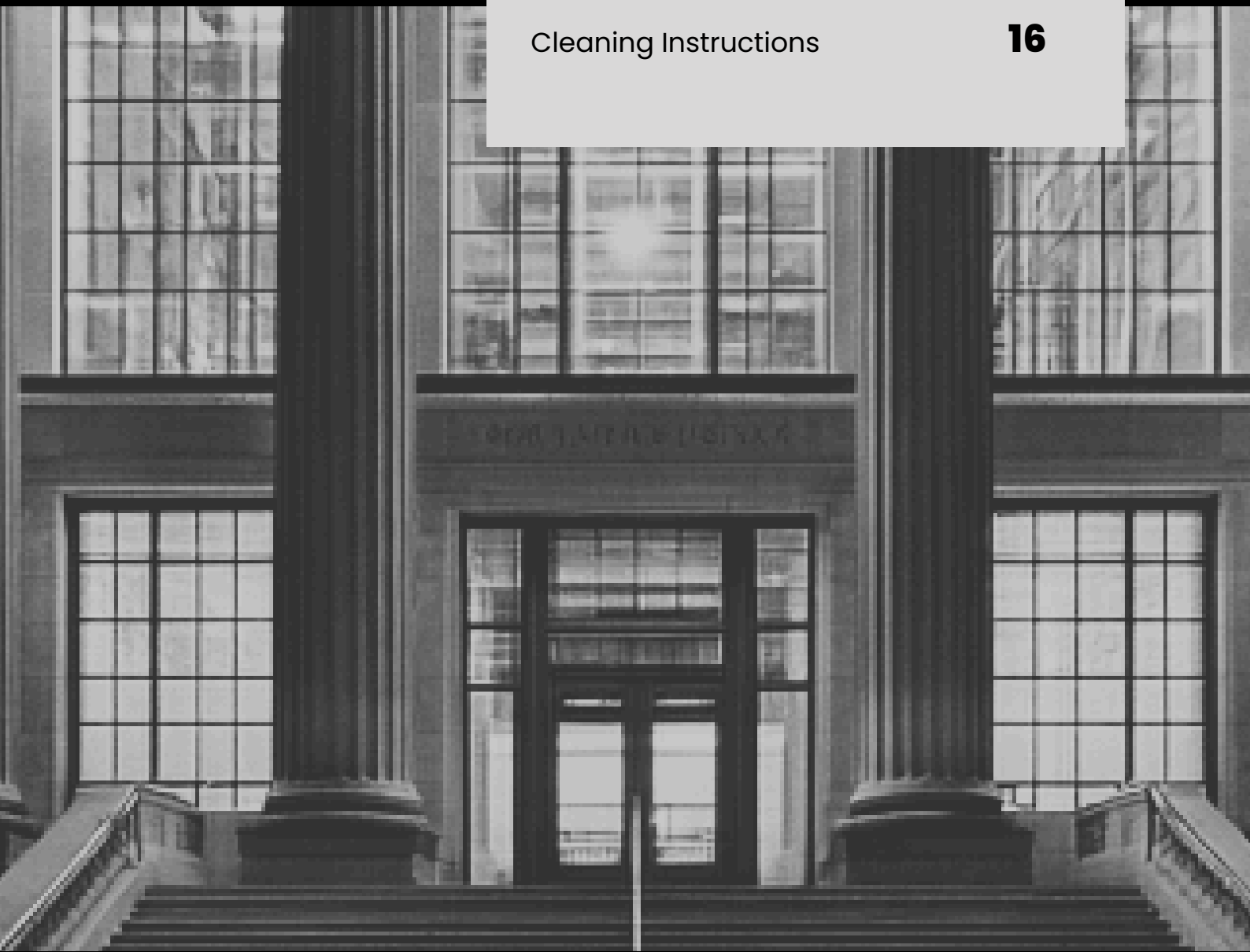
Global
Security Glazing

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.



INTRODUCING

ARMORGARDTM **Ultimate**

The 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.



INTRODUCING

BR-AR15

This product features a nominal thickness of 1.6 inches with no exposed plasticTM, 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.



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.





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.



ARMORGARD™ BULLET RESISTANT

Global Security Glazing and Isoclima Specialty Glass provide a wide range of ARMORGARD® 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.





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

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.





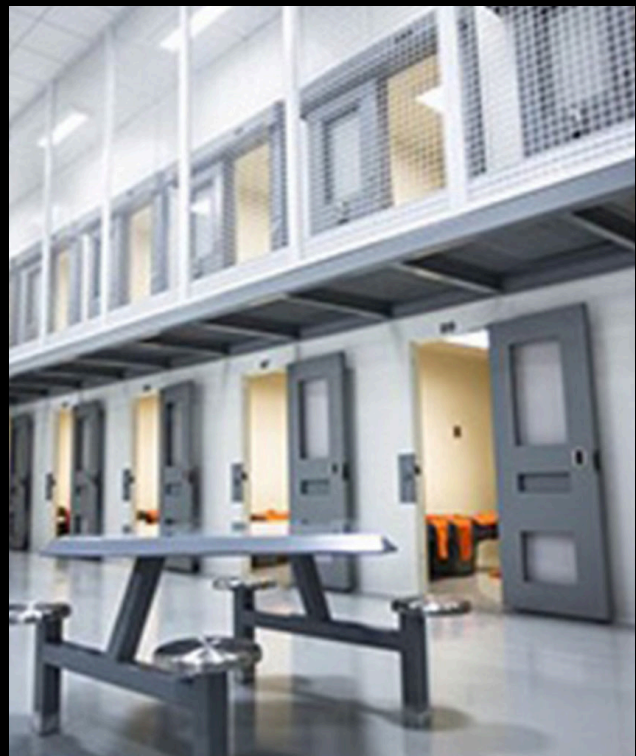
BEHAVIORAL HEALTH AND HOSPITAL GLAZING

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.



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.





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.



ZOO GLAZING

Our 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.





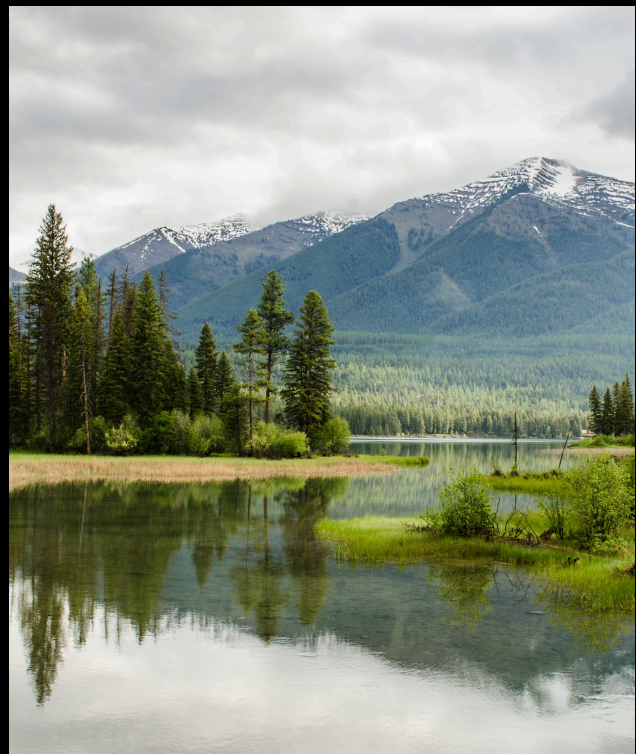
ATTACK & BURGLAR RESISTANT

Global Security Glazing & 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.



ONE-WAY VISION

We offer 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.





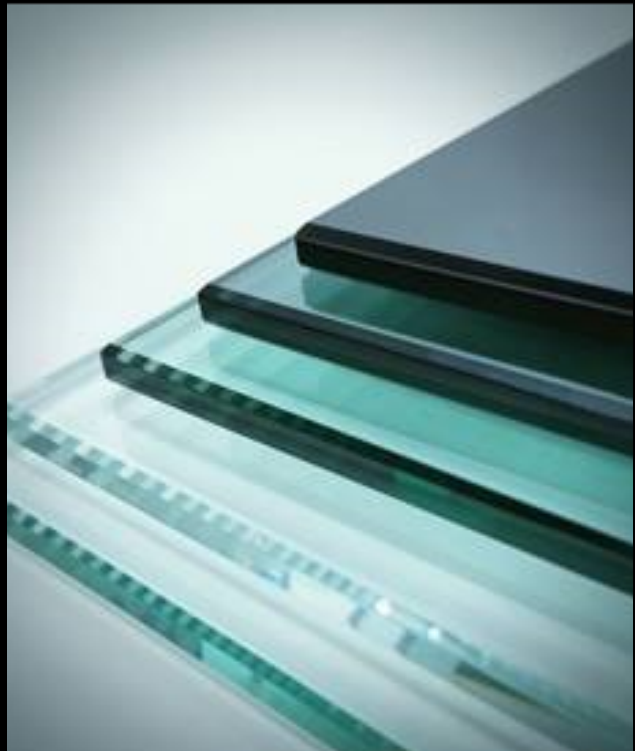
FIRE RESISTANT

Global Security Glazing and Isoclima Specialty Glass offer a comprehensive range of fire-rated glazing solutions designed to provide protection in various settings. Our INFERNOGARD® 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 INFERNOGARD® 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, 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.





VEHICLE ARMOR

Our Civilian, Commercial, and Military Armored Vehicle Glazing offers high-performance ballistic and transparent armor solutions for a wide range of applications. Isoclima 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, Isoclima'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

Isoclima'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, Isoclima 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.



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.

Get in touch with us!



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**All data sheets can
be downloaded from
our website.**