

HEHR INTERNATIONAL

www.hehrintl.com

HEHR GLASS COMPANY

(Division of Hehr International Inc.)

Hehr is one of the most well respected fabricators in America of laminated transparency products for architectural and transportation applications. For personal and property protection in public or private spaces, Hehr is a leader in traditional glass laminate constructions as well as sophisticated polycarbonate, glass-clad polycarbonate, bullet-resistant and smash proof laminates. Hehr laminates stand up to the challenges of wind, water, weaponry and wild animals in vertical installations as diverse as zoos, aquariums, baseball parks, prisons and detention centers; in overhead installations for building entrance canopies and skylights; and in open-air bus shelters as well as in automotive and transportation applications.



Project: Entrance canopy, Carolinas Hospital System, Florence, S.C

Laminate: 1/4-inch heat-strengthened blue-tinted glass and 3/8-inch clear tempered glass with .060-inch PVB interlayer.

Years of experience have given Hehr a keen understanding of the unique requirements needed to design and fabricate custom-sized laminated transparency products that are as

attractive as they are effective. Using proven techniques and leading-edge equipment, Hehr assembles the highest quality flat glass, polycarbonate and polyvinyl butyral into laminates that provide the visual clarity and performance

attributes needed in the most critical and demanding applications. With our jumbo autoclave, laminates as large as 112 by 204 inches are readily produced for animal and aquarium enclosures. Capabilities include standard shapes as well as intricate circles, squares, ovals, rectangles and custom geometric patterns.

Hehr products for architectural applications include:

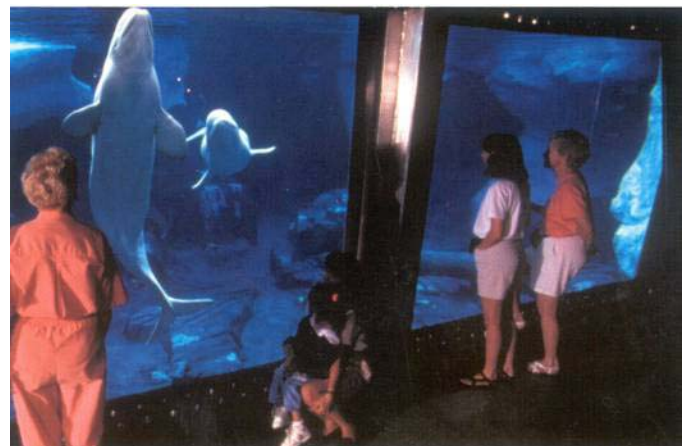
- Annealed glass
- Detention laminates
- Heat-strengthened glass
- Bullet-resistant laminates
- Tempered glass
- Blast-resistant laminates
- Insulating glass
- Acoustic laminates
- Safety laminates
- Wired glass
- Glass-clad polycarbonate
- Silk-screening and
- Polycarbonate laminates custom frits

Polar Bear Exhibit, Cincinnati Zoo and Botanical Garden, Cincinnati, Ohio

Laminate: 10 piles of ½-inch clear tempered glass with .060-inch PVB interlayer



Laminated glass When applications demand strength as well as scratch and chemical resistance, laminates made of glass can provide the solution. Hehr has the capabilities for fabricating laminated glass that does more than provide safety and security .Laminates can be designed with annealed, heat-strengthened and tempered glasses to meet specific strength requirements. Tinted and coated substrates provide improved thermal performance and complementary aesthetics. For applications where visual clarity is important, such as zoos, aquariums and display cases, ultra-clear glasses are preferred. Laminates made of glass provide superior service by their ability to withstand the elements.



(Above) Project: Base Station Wild Arctic, Sea World Adventure Park, San Diego, Calif.

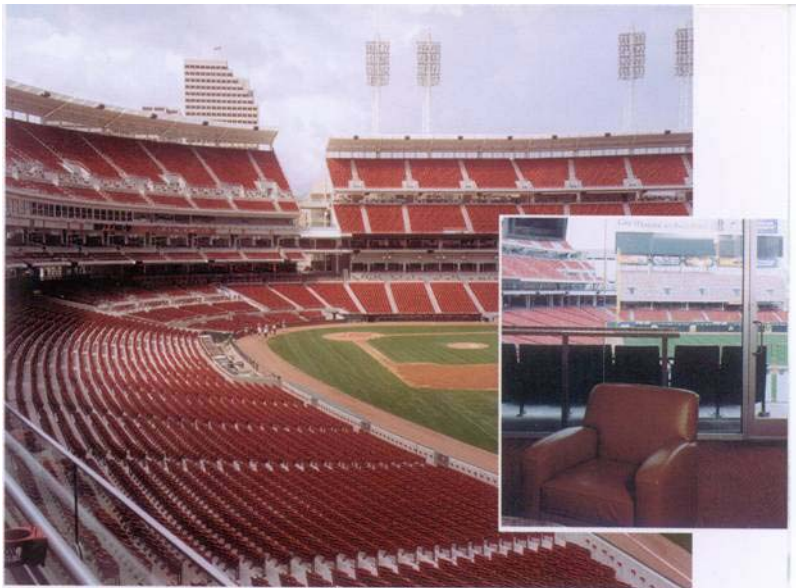
Laminate: 7-10 plies 15mm tempered low-iron ultra-clear glass with .090-inch PVB interlayer.

Glass-clad polycarbonate and polycarbonate

When weight is a consideration, glass-clad polycarbonate or polycarbonate laminates may be the answer. Glass-clad polycarbonate combines the craze-resistant benefits of glass on the outboard.

Two thin glass plies are bonded with urethane to an inboard core ply or plies of polycarbonate. The resulting laminate weighs 40 to 60 percent less per square foot and resists penetration better than all-glass laminates of comparable or greater thickness. An excellent guard against fire, glass-clad polycarbonate laminates can incorporate wired glass for enhanced security. Polycarbonate laminates have even higher penetration resistance and lighter weight for applications where erosion will not be encountered.

Communication and pass-through openings can be installed, and notches and holes can easily be incorporated into the design for a specific project. Pressure equalization systems as well as enhanced acoustical performance are possible.



Project: Private Boxes, Great American Ball Park, Cincinnati, Ohio.

Laminate: two plies 1/4-inch clear heat-strengthened glass with .060-inch PVB interlayer

Bullet-resistant glass

Bullet-resistant glazing can be designed to meet a variety of security requirements and applications. Multiple glass plies are bonded with polyvinyl butyral interlayer to form attractive, strong systems that meet specific UL rating requirements.

Bullet-resistant glazing can provide optical clarity with superior penetration resistance for detention facilities, data centers, check-cashing booths, bank drive-up windows, embassies, law enforcement centers and box offices. Hehr also has unique capabilities to produce bullet-resistant glass for armored vehicles that meets requirements of the U.S. Department of transportation.





Project: Theo Lacy Jail, County of Orange, Orange, California

Laminate: detention laminated glass

Insulating glass

To meet building energy codes and enhance occupant comfort, Hehr also produces insulating glass units with annealed, heat- strengthened, tempered or laminated glass as well as glass and polycarbonate laminates. Certified by the Insulating Glass Certification Council, Hehr adheres to strict standards in producing insulating glass units to afford years of service.

Since 1946, the mission of Hehr International has been to provide our customers with products that provide years of reliable service and satisfaction. For all your glass requirements and needs, please contact one of [Hehr glass companies](#) below.

HEHR INTERNATIONAL GLASS PLANTS LOCATIONS:

<p>Hehr Glass Company 1021 Walnut Avenue Pomona, CA 91766 Phone: 909-628-5557 <i>Fax: 909-613-0857</i> Email: CSHehrCAG@hehrintl.com</p>	<p>Hehr Michigan Glass Plant 200 S. First Street P.O. Box 388 Chesaning, MI 48616-0388 Phone: 989-845-7292 <i>Fax: 989-845-7110</i> Email: CSHehrMIG@hehrintl.com</p>
<p>Janel Glass Company 2960 Marsh Street Los Angeles, CA 90039-2911 Phone: 323-661-8621 <i>Fax: 323-661-8738</i> Email: CSJANEL.GLASS@hehrintl.com</p>	<p>Hehr Kansas Glass Plant 1050 S. Meridian P.O. Box 846 Newton, KS 67114-0846 Phone: 316-283-0627 <i>Fax: 316-283-0896</i> Email: CSHehrKSG@hehrintl.com</p>