



HydroClear® anti-corrosion glass provides permanent protection against the corrosive effects of water, heat, and humidity that produce a dull, hazy and dirty appearance.

To eliminate the potential for surface corrosion, HydroClear features an invisible, highly durable, and permanent protective coating that is fused to the glass surface, providing corrosion protection for a crystal clear appearance that lasts a lifetime.

INVISIBLE. PERMANENT. PROTECTION.



Frequent Uses Inspired Applications - Inside and Out

- | | | |
|---------|--------|------------|
| Showers | Saunas | Aquariums |
| Baths | Pools | Car Washes |

What's so special about HydroClear?

What this means for you?

Permanent anti-corrosion coating

- Prevents corrosion due to contaminants related to water, heat, and high humidity
- Coating is permanently fused with the glass so it lasts for the life of the product
- Invisible coating to maintain the optical properties of the glass

Factory-applied durable coating

- Eliminates the need for labor-intensive aftermarket solutions, saving time and money
- Lasts the life of the product and does not require the hassle of re-application
- Industrial, quality-controlled pyrolytic coating ensures durability, making handling and storage worry-free

Easy to clean

- Easy to keep the glass looking new with regular cleaning using traditional non-abrasive household cleaners

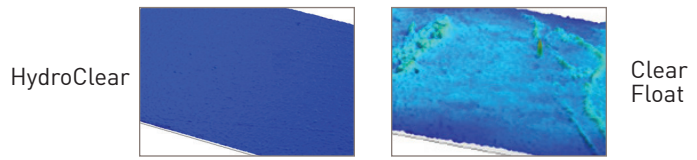
Limited Lifetime Warranty

- Available to the original end user, Cardinal warrants the product for its entire lifetime
- Easy warranty registration process, visit www.cardinalcorp.com for registration and warranty terms and conditions



HydroClear has been rigorously tested to ensure a high-performing product that lasts a lifetime. To simulate regular use in a shower enclosure for 20 years, HydroClear and clear float glass were tested at high temperatures and high humidity (50° C + 95% Relative Humidity + > 1,900 hours). HydroClear showed no signs of corrosion unlike the clear float glass.

Optical Imaging of Exposed Glass



Magnified images of glass surface after exposure using 3-D confocal microscopic imaging.

HydroClear Performance

| Glass Thickness | | Transmittance % Visible (VLT) | Reflectance % | | Solar Energy Transmittance % | Winter U-Factor | Solar Heat Gain Coefficient (SHGC) | Light to Solar Gain (LSG) |
|-------------------|----|----------------------------------|---------------|-----|------------------------------|-----------------|------------------------------------|---------------------------|
| Inches | mm | | In | Out | | | | |
| Monolithic | | | | | | | | |
| 1/4 | 6 | 87 | 10 | 10 | 78 | 1.03 | 0.82 | 1.06 |
| 3/8 | 10 | 85 | 10 | 10 | 71 | 1.00 | 0.78 | 1.09 |
| 1/2 | 12 | 84 | 10 | 10 | 66 | 0.99 | 0.74 | 1.12 |

Performance values are based on representative production samples and product modeling data using LBNL Window 7 software. Actual values may differ based on variations in the manufacturing process. Environmental conditions based on NFRC 100-2010. Thermal stress analysis or building codes may determine the requirement for heat-treated glass. Contact Cardinal FG Technical Services to ensure the correct form of glass to be supplied. For additional data performance and comparisons visit www.cardinalcorp.com.

Standard Thicknesses:

6mm (1/4") 10mm (3/8") 12mm (1/2")

Dimensions:

84" x 130" 96" x 130" 130" x 204"

Availability:

Made in the USA. Readily available.
Visit www.cardinalcorp.com for more details.

HydroClear must be installed with the coated surface to the area exposed to water, heat, and high humidity. Cardinal offers coating detectors to easily identify the coated surface.

Please contact your local Cardinal Glass Sales Representative for more details.

Fabricating Options

| Process | Operation | HydroClear® |
|--------------------------|-----------------------------------|-------------|
| Cutting | Straight | Yes |
| | Circular | Yes |
| Shaping & Edge Finishing | Edge Grinding | Yes |
| | Grinding | Yes |
| | Drilling | Yes |
| | Notches | Yes |
| Fabrication | Bending | Yes |
| | Etching | Yes |
| | Laminating | Yes |
| | Sandblasting | Yes |
| | Painting & Silvering | Yes |
| | Silk Screen Printing & Enamelling | Yes |
| | Tempering | Yes |

CARDINAL GLASS INDUSTRIES

Cardinal Glass Industries is a management-owned S-Corporation leading the industry in the development of residential glass for windows and doors. At Cardinal, we try to maintain a clear vision: design and fabricate the most advanced residential glass products in the industry. We turn those fresh ideas into useful products that homeowners can use. In 2021 Cardinal Glass Industries purchased assets from AGC Glass North America, including products such as Purevision™ and HydroClear® (previously LuxClear) glass.