



HydroClear® anti-corrosive 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-corrosive 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

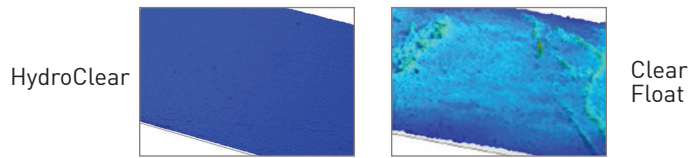
##### Limited Lifetime Warranty

- Available to the original end user, Cardinal warrants the product for its entire lifetime
- Easy warranty registration process, visit [www.cardinalcorp.com](http://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 %	Reflectance %		Solar Energy Transmittance %	Winter U-Factor	Solar Heat Gain Coefficient (SHGC)	Light to Solar Gain (LSG)
Inches	mm	Visible (VLT)	In	Out				
<b>Monolithic</b>								
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

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](http://www.cardinalcorp.com).

## Fabricating Options

### Standard Thicknesses:

6mm (1/4")      10mm (3/8")

### Dimensions:

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

### Availability:

Made in the USA. Readily available.  
Visit [www.cardinalcorp.com](http://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.

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 & Enameling	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.