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D | Skyline Design

Exterior Architectural Glass





Skyline Design offers you an unlimited combination of design options to fully customize glass for your exterior project.

Each glass panel can be created from a unique piece of artwork and tailored to your specifications for façades, curtain walls, rainscreens, canopies, railings, wayfinding, and bird-friendly glass.







Building collisions  
**kill nearly one billion  
birds each year**  
in North America.

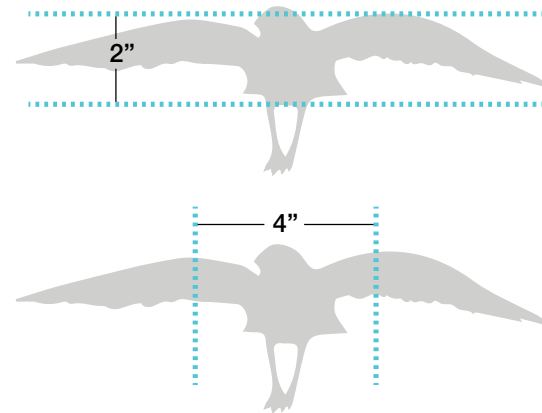


Eco-etch® etching or printing ceramic frit inks on Surface One of exterior glass reduces these bird fatalities and thus contributes to the continuing vitality of the local ecosystem.

# SkySafe™ Bird-Friendly Glass

*Surface One Eco-etch® glass etching reduces collisions by making exterior glass visible to birds.*

Clients can choose from Skyline Design's library of proprietary, proven bird-safe patterns or work with Skyline Design to create a custom pattern that meets bird-friendly standards.



## **2x4 Rule**

To deter bird strikes, patterning on glass should be spaced at a minimum of 2" vertically and 4" horizontally.

Skyline Design offers patterns that follow both a 2 x 2 and a 2 x 4 rule.

# Surface One Eco-etch<sup>®</sup> Testing

Working with Stonebridge Coatings Laboratory, Skyline Design carried out custom testing of its Eco-etch<sup>®</sup> glass samples to assess the technique's resistance to abrasion and environmental exposure.

The Eco-etch<sup>®</sup> glass performed beautifully, with results showing that the etched glass plates were unaffected by abrasive and environmental factors. A simulated scrub abrasion test using two different glass cleaners showed no effect on glass samples after 2000 double cycles with standard window cleaning tools. The etched glass also showed no wear or deterioration after exposure to simulated acid rain, bird droppings, smog chemicals, exhaust fumes, and ambient dirt due to weathering.

Testing data available upon request.



<p><i>Resistance Test</i></p> <p><b>Acid Rain</b></p>	Eco-etch <sup>®</sup> + Black Weatherstrip	✓ no effect
	Eco-etch <sup>®</sup> + Clear Caulk	✓ no effect
	Eco-etch <sup>®</sup> On Glass	✓ no effect
<p><i>Resistance Test</i></p> <p><b>Dirt Pick-Up</b></p>	Eco-etch <sup>®</sup> + Black Weatherstrip	✓ no effect
	Eco-etch <sup>®</sup> + Clear Caulk	✓ no effect
	Eco-etch <sup>®</sup> On Glass	✓ no effect
<p><i>Resistance Test</i></p> <p><b>Bird Droppings</b></p>	Eco-etch <sup>®</sup> + Black Weatherstrip	✓ no effect
	Eco-etch <sup>®</sup> + Clear Caulk	✓ no effect
	Eco-etch <sup>®</sup> On Glass	✓ no effect
<p><i>Resistance Test</i></p> <p><b>Smog</b></p>	Eco-etch <sup>®</sup> + Black Weatherstrip	✓ no effect
	Eco-etch <sup>®</sup> + Clear Caulk	✓ no effect
	Eco-etch <sup>®</sup> On Glass	✓ no effect
<p><i>Resistance Test</i></p> <p><b>Exhaust Fumes</b></p>	Eco-etch <sup>®</sup> + Black Weatherstrip	✓ no effect
	Eco-etch <sup>®</sup> + Clear Caulk	✓ no effect
	Eco-etch <sup>®</sup> On Glass	✓ no effect
<p><i>Resistance Test</i></p> <p><b>Cleaning &amp; Scrubbing</b></p>	Eco-etch <sup>®</sup> + Black Weatherstrip	✓ no effect
	Eco-etch <sup>®</sup> + Clear Caulk	✓ no effect
	Eco-etch <sup>®</sup> On Glass	✓ no effect





# Exterior Capabilities

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## Glass Types

- Insulated Units
  - Monolithic
  - Laminated Units
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## Specifications

Sizes up to 96" x 144"  
*(Maximum size is dependent on fabrication technique, glass type, and weight)*

Standard glass thicknesses

Weight up to 400 lbs.

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## Finishing Options

- Laminating
  - Low-e coatings
  - Holes and notches
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## Techniques

### Eco-etch® Glass Etching

Patterning is permanently engraved into surface one of the glass. Lifetime warranty.

### Ceramic Frit Digital Printing

Digitally printed pattern is baked into the glass during the tempering process.

### Printed Interlayer Lamination

Patterning is laminated between two lites of glass with EVA interlayers which offer better optical quality than traditional PVB.





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