

## **DID YOU KNOW?**

Up to 25 million birds die each year in Canada from window collisions.

At Integral Seal, we've created a new laser-etching technology that helps protect birds while keeping buildings energy efficient. Our solution adds bird-friendly patterns to the outer glass surface (surface #1) while keeping the Low-E coating on the inner surface (surface #2). This means you get energy efficiency, natural light, and bird collision prevention—all without sacrificing performance.



**NORMAL GLASS** 



**BIRD FRIENDLY LASER ETCHING** 

### WHAT MAKES IT IDEAL



#### **Reduces Collisions**

Our laser etching on the outer surface creates a visible obstacle, helping birds recognize the glass and avoid collisions.



### **Energy Efficient**

Low-E coating on surface #2 enhances thermal insulation, reducing heat loss and improving energy efficiency in sealed glass units.



# Versatility

Laser etching creates patterns on glass without causing any damage and works with various types, including monolithic, tempered, heat-strengthened, laminated, and insulated glass units (IGUs).



### **Application**

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#### **Durable & Long-Lasting:**

Laser Etched patterns are permanent and resistant to wear, ensuring lasting performance and compliance with bird-friendly standards.

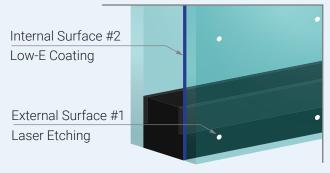


## **AVAILABLE OPTIONS**

The Laser Etching process allows to place the bird friendly patterns, non-destructively on various types of glass. It can be available for Heat-treated glass, Laminated Glass and Insulating Glass.

# **Specialty Product**

Laser Etched Low-E glass with Bird-friendly patterns on Surface #1 and Low-E soft coat on Surface #2.



Sealed Glass Unit

# **VISUAL PATTERNS**

Our state of the art production has the ability to laser etch any pattern onto glass, inculding options for various levels of transparency.







## **GOVERNMENT COMPLIANCE**

The laser etching process is in accordance with the Tier 1 terms of the Toronto Green Standards (TGS) Compliance Strategies (s. 114 City of Toronto Act, 2006). These terms state that;

- 1. Visual markers must be high in contrast to glass.
- 2. Visual markers must be on the exterior face of glass (Surface #1).
- 3. The First 12m (30ft) of glass, from ground requires visual markers.