
GUARDIAN BIRD1ST™ UV

# PROTECT BIRDS

## WITH CLEAR RESULTS

**Up to a billion birds die each year due to building collisions.**

Twice a year, migratory birds embark on a long, cross-continental flight. But their journey is often cut short. From hummingbirds to colorful warblers, bird populations are decreasing—and glass buildings are one reason why. Birds simply can't tell the reflection of trees and sky in façades from the real thing. Guardian Bird1st™ UV coated glass is the clear answer for safer birds year round.

### WHAT HUMANS SEE

Guardian Bird1st UV glass offers the right balance of solar performance, aesthetics and bird safety—so you can start designing your bird-friendly building through one trusted source. A patent-pending UV stripe coating on the first surface is virtually invisible to the human eye in dry conditions. Views remain pristine unlike traditional ceramic frit solutions, all while helping protect birds. Paired with select Guardian SunGuard® low-E coatings, Bird1st UV glass offers the high performance you want and need, and may help your project earn LEED Pilot Credit 55.

AMERICAN BIRD CONSERVANCY
TESTED EFFECTIVE

### WHAT BIRDS SEE

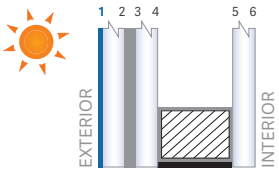
The Guardian Bird1st UV stripe coating visually signals an impending barrier to birds and helps prevent collisions. With an acceptable Avoidance Index score[1] from the American Bird Conservancy, the product follows the 2x2 rule to account for different sizes and species of birds.

[1] Avoidance Index (AI) Scores indicate the fraction of trials in which birds flew towards the unpatterned control glass.

GUARDIAN GLASS


## HELP SAVE ENERGY, HELP SAVE BIRDS

Guardian Bird1st™ UV glass helps reach energy goals when paired with Guardian SunGuard® low-E coatings.

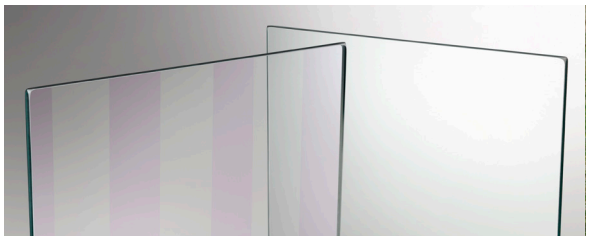



| MAKEUP NAME | TRANSMITTANCE | | | REFLECTANCE | | | U-VALUE | | Relative Heat Gain (RHG) | Solar Heat Gain | Light To Solar Gain (LSG) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Visible ($\tau_v$%) | UV ($\tau_{uv}$%) | Solar ($\tau_e$%) | Visible $\rho_v$% out | Visible $\rho_v$% in | Solar $\rho_e$% out | Winter Night (Btu/hr·ft²·F) | Summer Day (Btu/hr·ft²·F) | | | |
| **Bird1st UV** with **NU 78/65** (#5) | 76 | 0 | 48 | 12 | 13 | 14 | 0.30 | 0.29 | 139 | 0.59 | 1.29 |
| **Bird1st UV** with **SN 68** (#4) | 66 | 0 | 30 | 11 | 12 | 22 | 0.29 | 0.27 | 86 | 0.36 | 1.83 |
| **Bird1st UV** with **SNX-L 62/34** (#5) | 63 | 0 | 25 | 12 | 12 | 27 | 0.28 | 0.27 | 92 | 0.38 | 1.65 |
| **Bird1st UV** with **SNX 62/27** (#4) | 60 | 0 | 22 | 11 | 12 | 26 | 0.28 | 0.26 | 65 | 0.27 | 2.22 |

1. Figures may vary due to manufacturing tolerances. All tabulated data is based on NFRC methodology using Guardian's Performance Calculator.
2. Values are for indication purposes only and are subject to variation according to conditions of measurement, manufacture and/or application.
3. Solar Heat Gain Coefficient (SHGC) represents the solar heat gain through the glass relative to the incident solar radiation.

## PROTECT + PRESERVE

### THE BIRDS + YOUR VIEW



To birds, the vertical stripe coating is visible (this image is a representation of the Bird1st UVstripe coating).

To the human eye, the Guardian Bird1st UV coating looks transparent in most viewing conditions.

### DETAILS

**SIZE**
102" x 144" (maximum)

**THICKNESS**
6mm

**OPTIONS**
- Guardian UltraClear™ low-iron glass
- Standard clear glass

**WARRANTY**
10 years

**SAFETY**
Heat-treated and laminated

*See what's possible™ at* **GuardianGlass.com/Bird1st**

 v2.21

GUARDIAN® GLASS