



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 coated glass is the clear answer for safer birds year round.

WHAT HUMANS SEE

Guardian Bird1st 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 protecting birds. Paired with select Guardian SunGuard® low-E coatings, Bird1st glass offers the high performance you want and need, and meets LEED Pilot Credit 55.

WHAT BIRDS SEE

The Guardian Bird1st UV stripe coating visually signals an impending barrier to birds and helps prevent collisions. According to tests conducted by the American Bird Conservancy, 74% of birds avoided Bird1st glass.¹ This solution meets the recommended 2x4 rule.

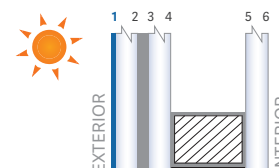


¹ Avoidance Index (AI) Scores indicate the fraction of trials in which birds flew towards the unpatterned control glass. When the tunnel test is run with two pieces of unpatterned glass, 50% of birds fly to the left and 50% to the right, so Avoidance Index Scores range from 50–100.



HELP SAVE ENERGY, HELP SAVE BIRDS

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



MAKEUP NAME	TRANSMITTANCE			REFLECTANCE			U-VALUE		Relative Heat Gain (RHG)	Shading Coefficient (SC)	Solar Heat Gain Coefficient (SHGC)	Light To Solar Gain (LSG)
	Visible (τ_V %)	UV (τ_{UV} %)	Solar (τ_e %)	Visible ρ_V % out	Visible ρ_V % in	Solar ρ_e % out	Winter Night (Btu/hr·ft²·F)	Summer Day (Btu/hr·ft²·F)				
Bird1st with NU 78/65 (#5)	76	0	48	12	13	14	0.30	0.29	139	0.68	0.59	1.29
Bird1st with SN 68 (#4)	66	0	30	11	12	22	0.29	0.27	86	0.41	0.36	1.83
Bird1st with SNX-L 62/34 (#5)	63	0	25	12	12	27	0.28	0.27	92	0.44	0.38	1.65
Bird1st with SNX 62/27 (#4)	60	0	22	11	12	26	0.28	0.26	65	0.31	0.27	2.22

- Figures may vary due to manufacturing tolerances. All tabulated data is based on NFRC methodology using LBNL's Window 5.2 program.
- Values are for indication purposes only and are subject to variation according to conditions of measurement, manufacture and/or application.
- Solar Heat Gain Coefficient (SHGC) represents the solar heat gain through the glass relative to the incident solar radiation. It is equal to 86% of the shading coefficient.

PRESERVE YOUR VIEW



PROTECT THE BIRDS



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



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

DETAILS

SIZE
102" x 144" (maximum)

THICKNESS
6mm (other thicknesses available upon request)

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