



The *NEW* Bird1st™ UV

BIRD-FRIENDLY GLASS.* DESIGNED WITH PEOPLE IN MIND.

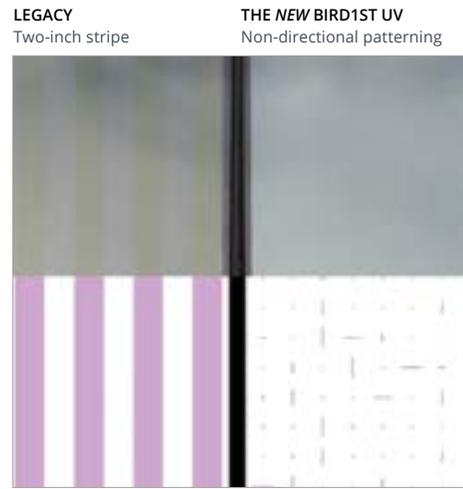
The *NEW* Bird1st UV glass can help you meet building requirements, while protecting clean, unobstructed views. With jumbo sheet sizes and non-directional patterning, it can help lower installed costs (vs our previous version, Legacy 2-inch stripe) by allowing fabricators to greatly increase yields from each stock sheet. Through innovative engineering to control both UV light reflectivity and absorption, Guardian has created a solution with our lowest level of visibility to humans—while earning a Threat Factor score of ≤ 25 from the American Bird Conservancy.

*The American Bird Conservancy defines “bird-friendly” materials as those with a Threat Factor score of ≤ 30 .



GET A CLEARER VIEW.

Many alternative UV deterrents reflect about 30% of UV light*. Our Bird1st™ UV pattern reflects upwards of 75%, creating a UV signal with a higher chance of being seen. Boosting the contrast further, we require use of a laminated outboard lite to absorb >99% of UV light outside the pattern. The result? A bird-friendly solution for beautifully unified façades. One with our lowest impact on human visibility to help protect aesthetics. To help meet energy performance requirements, the *NEW* Bird1st UV glass pairs with a variety of SunGuard™ low-E coatings.



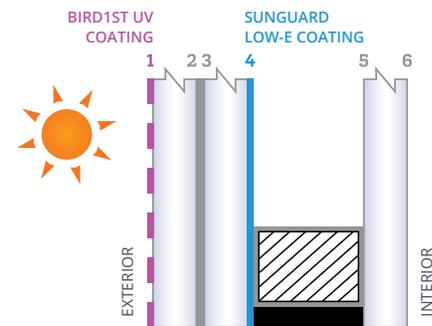
The new pattern is so hard to see, we have to show you in a graphic.

SunGuard low-E Product Laminated Outboard 6mm/0.060 pvb/6mm 12.7mm argon/6mm	Visible Light			Ultraviolet Trans UV (τ_{UV} %)	Solar Energy Solar Heat Gain Coefficient (SHGC)	Thermal Properties		Light to Solar Gain (LSG)	ABC Threat Factor (TF)
	Transmittance	Reflectance				U-Value			
		Visible (τ_V %)	ρ_V % out			ρ_V % in	Winter Night (Btu/hr-ft ² -F)		
S1 Bird1st UV with S4 SNX 70+ on Clear	64.3	13.2	15.1	0.251	0.273	0.233	0.205	2.35	TF 25 (evaluated)
S1 Bird1st UV with S4 SNX 60+ on Clear	58.8	13.1	14.7	0.165	0.246	0.235	0.208	2.39	TF 25 (evaluated)
S1 Bird1st UV with S4 SNX 51/23 on Clear	49.9	12.9	13.5	0.207	0.227	0.235	0.207	2.20	TF 25 (evaluated)
S1 Bird1st UV with S4 SN 68 on Clear	66.7	10.2	12.0	0.515	0.356	0.242	0.218	1.87	TF 16 (tunnel tested)
S1 Bird1st UV with S4 NU 78/65 on Clear	76.5	11.9	12.3	0.633	0.560	0.261	0.246	1.37	TF 25 (evaluated)

Note: Figures may vary due to manufacturing tolerances. All tabulated data is based on NFRC methodology using Guardian's Performance Calculator. Values are for indication purposes only and are subject to variation according to conditions of measurement, manufacture and/or application.

BIRD1ST UV PRODUCT DETAILS AND AVAILABILITY.

- *Two substrates:* The Bird1st UV lite is available exclusively on Clear and Guardian UltraClear™ glass. (Other lites in the IGU can be Clear, Guardian CrystalClear™ glass, or Guardian UltraClear glass.)
- *A variety of configurations:* The table above lists all of the North American low-E coatings that are approved to be paired with Bird1st UV in a double IGU configuration. Contact us for a full list of options, including international coatings, triple IGUs, triple IGUs with secondary low-E coatings, and monolithic configurations.
- *Pattern:* Non-directional, 2x2 in, grid of squares and dashes.
- *Sizes:* Split Jumbo (102 × 130 in), Jumbo (130 × 204 in), and Super-Jumbo (130 × 240 in).
- *Thicknesses:* 6 mm (stock); 5, 8, 10 and 12 mm (made to order).



Every application of the *NEW* Bird1st UV glass **must** have the coating on surface #1 and **must** have a laminated interlayer on surface #2.



For more information, visit Bird1st.com/UV. As codes continue to change, please reach out to your Guardian Glass sales representative for product availability.

