



Guardian Bird1st™ Etch

Glass that performs and protects

Achieve a wide array of looks while improving bird safety and meeting energy performance requirements. Guardian Bird1st Etch glass products are available in six translucent patterns – and in large sizes that make Guardian bird-friendly glass bigger and more beautiful than ever. Choose from directional, non-directional and randomized patterns as you design bird-friendly facades and curtain walls.

Bird1st Etch glass has been tested by the American Bird Conservancy and has achieved Threat Factors (TF)¹ that quantify collision-avoidance effectiveness.



Bird1st Etch LV

THREAT FACTOR: 23

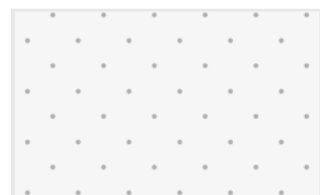
Randomized lines, vertically oriented with variable width and spacing



Bird1st Etch LH

THREAT FACTOR: 30

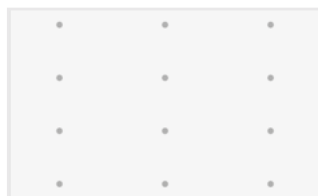
3mm lines, horizontally oriented and spaced 2" apart



Bird1st Etch DX22

THREAT FACTOR: 25

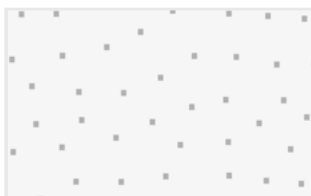
Non-directional 5mm dots spaced 2" x 2" apart



Bird1st Etch DV24

THREAT FACTOR: 25

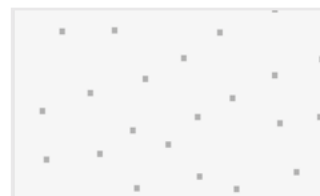
Directional 6mm dots, vertically oriented and spaced 2" x 4" apart



Bird1st Etch SqX22

THREAT FACTOR: 20

Non-directional 6mm squares, randomly spaced no more than 2" x 2" apart



Bird1st Etch SqX24

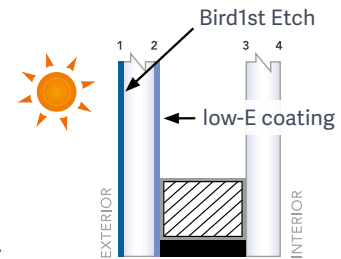
THREAT FACTOR: 25

Non-directional 6mm squares, randomly spaced no more than 2" x 4" apart

¹ Threat Factor indicates the percent of times in which birds will not avoid collision, as tested by the American Bird Conservancy (ABC). ABC defines "bird-friendly" materials as having a Threat Factor ≤ 30.

Advanced technology for optimized protection

Guardian Bird1st™ Etch glass pairs the visual deterrent of acid-etched glass on surface 1 with Guardian SunGuard™ low-E coatings on surface 2. This allows you to expertly achieve energy performance and the bird-friendly standards your project requires – while also contributing to LEED Pilot Credit 55 qualification.



SunGuard low-E Product	Transmittance		Reflectance		U-Value		Solar Heat Gain Coefficient (SHGC)	Light to Solar Gain
	Visible (τv%)	Solar (τe%)	Visible Pv% out	Pv% in	Winter Night (Btu/hr·ft²·F)	Summer Day (Btu/hr·ft²·F)		
6mm/12.7mm a.s./6mm								
SN 68 on Clear	68	33	11	12	0.29	0.28	0.38	1.80
SNX 62/27 on Clear	62	23	11	12	0.29	0.27	0.27	2.31
SNX 51/23 on Clear	51	19	14	14	0.29	0.27	0.23	2.18
SN 54 on Clear	54	24	14	20	0.29	0.27	0.28	1.91

Note: Figures may vary due to manufacturing tolerances. All tabulated data is based on NFRC methodology using Guardian's Performance Calculator. Acid-etched patterns on the first surface have no considerable effect on performance data. When combined with low-E coatings and approved substrates, performance may change. Contact your Guardian Glass sales representative to assist in providing additional performance metrics for each unique combination.

Bird1st Etch product details and availability

- *Six patterns:* Bird1st Etch LV, Etch LH, Etch DX22, Etch DV24, Etch SqX22 and Etch SqX24
- *Four SunGuard low-E coatings:* SN 68, SNX 62/27, SNX 51/23 and SN 54
- *Four substrates:* Guardian UltraClear™ low-iron glass, CrystalGray™ tinted glass, gray and standard clear glass
- *Sizes*
 - 96" x 130": Etch LV and LH patterns
 - 102" x 130", 102" x 144", 102" x 204" and 64" x 204": Etch DX22, DV24, SqX22 and SqX24 patterns
- *Thickness:* 6mm, 8mm and 10mm¹

For more information on our bird-friendly solutions, visit GuardianGlass.com.

As codes continue to change, please reach out to your Guardian sales representative for product availability.

¹ Speak with a Guardian Glass sales representative to learn more about substrate options and thickness availability.