



Guardian Bird1st™ Etch

Glass that performs and protects

Architects and designers can gain greater flexibility in meeting both energy performance and bird safety requirements – while delivering on aesthetics. In four distinct patterns, Guardian Bird1st™ Etch boasts a visible translucence for high style and visual appeal on façades and curtain walls.

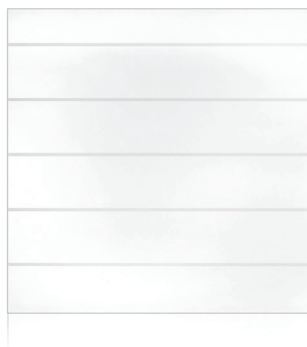
Bird1st Etch has been tested by bird conservationists and has achieved Threat Factors (TF)¹ that quantify collision-avoidance effectiveness.



Bird1st Etch 11

THREAT FACTOR: 23

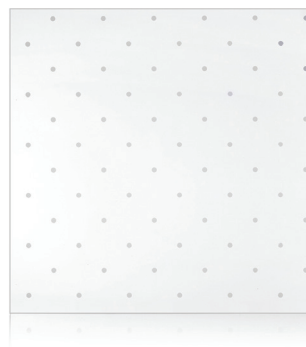
Vertical lines with variable spacing meeting the 2" x 4" Rule



Bird1st Etch 13

THREAT FACTOR: 30

3mm continuous horizontal lines, spaced 2" apart



Bird1st Etch 17

THREAT FACTOR: 25

2" x 2" 5mm dots



Bird1st Etch 21

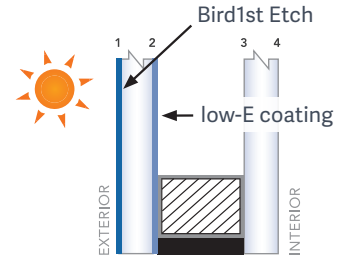
THREAT FACTOR: 25

2" x 4" 6mm dots

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 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 UltraClear®	71	37	13	11	0.29	0.28	0.39	1.80
SN 68 on Clear	68	33	12	11	0.29	0.28	0.38	1.80
SNX 62/27 on UltraClear®	64	24	12	11	0.29	0.27	0.27	2.40
SNX 62/27 on Clear	62	23	12	11	0.29	0.27	0.27	2.31
SNX 51/23 on UltraClear®	53	20	14	14	0.29	0.27	0.23	2.27
SNX 51/23 on Clear	51	19	14	14	0.29	0.27	0.23	2.18
SN 54 on UltraClear®	55	25	14	21	0.29	0.27	0.29	1.90
SN 54 on Clear	51	19	14	20	0.29	0.27	0.28	1.90

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. Contact your Guardian Glass Sales Representative for more information.

Bird1st Etch product details and availability

- *Four patterns:* Bird1st Etch 11, Bird 1st Etch 13, Bird1st Etch 17 and Bird1st Etch 21
- *Four SunGuard low-E coatings:* SN 68, SNX 62/27, SNX 51/23 and SN 54
- *Two substrates:* Guardian UltraClear® low-iron glass and standard clear glass
- *Maximum sizes:* 96" x 130" (Bird1st Etch 11 and Etch 13); 102" x 204" (Bird1st Etch 17 and Etch 21)
- *Thickness:* 5mm, 6mm, 8mm and 10mm
- *Safety:* Heat-treated and laminated

For more information on Guardian Glass bird-friendly products, visit GuardianGlass.com/Bird1st.

www.guardianglass.com

Phone: 1.866.482.7374

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