

GLASPRO™

Single Source Solutions In Glass



GlasPro-Bird Safe Bird friendly glass for railings, buildings and zoos



www.glas-pro.com

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THE FACTS

Over 100 million bird deaths annually

Reflective, transparent materials cause hazardous collisions

Birds attempt to reach shelter, food and migratory paths reflected in glass



"The wide variety of native birds that thrive in urban areas underscores the importance of these artificial habitats to the survival of many bird populations. Creating green-space in urban environments, landscaping with native plants in backyards and parks, adopting architecture and lighting systems that reduce collisions, and keeping pets indoors will provide the greatest benefit to breeding birds and migrants seeking safe places to rest and find food during their spectacular journeys."

- 2009 State of The Birds Report by the United States Government US Department of Interior

This is what humans see:



This is what birds see:



(these images are not photoshopped in any way)



Shaping the future for birds

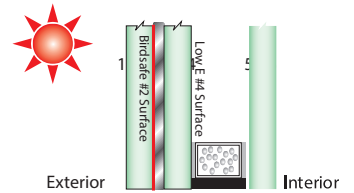
“With an Avoidance Index (AI) of 79%, GlasPro’s Bird- Safe glass significantly exceeds the American Bird Conservancy’s minimum standard for effective bird collision deterrent materials of 70%. Under sunny conditions the AI is 84% which is considered highly effective. GlasPro’s Bird-Safe Glass is eligible to use the American Bird Conservancy’s (ABC) Effective Solutions logo and be featured on ABC’s Effective Solutions website.”



“...significantly exceeds the American Bird Conservancy’s minimum standard for effective bird collision deterrent materials”



High Performance Insulated Glass with Bird Safe Laminated



Product	Outboard - Inboard Substrate	Appearance	Transmittance			Reflectance			U-Value Winter Nighttime		Relative Heat Gain	Solar Heat Gain Coefficient	Light to Solar Gain (LSG)
			Visible Light %	Ultra-violet %	Solar Energy %	Visible Light Out %	Visible Light In %	Solar Energy Out %	Air	Argon			
4mm/062 BirdSafe / 6mm Low E / Air Space / 6mm (Coating on the #4 surface)													
SNX 62/27 with GlasPro Bird Safe	UltraClear - UC/UC Clear - Clr/Clr	Ultra Clear Clear	63 59	0 0	23 21	11 11	12 12	51 39	0.28 0.28	0.23 0.23	64 64	0.26 0.26	2.37 2.25
SNX 51/23 with GlasPro Bird Safe	UltraClear - UC/UC Clear - Clr/Clr	Light Blue Light Blue	52 49	0 0	19 17	14 14	14 13	45 36	0.28 0.28	0.23 0.23	56 56	0.23 0.23	2.26 2.14
SN 68 with GlasPro Bird Safe	UltraClear - UC/UC Clear - Clr/Clr	Ultra Clear Clear	69 66	0 0	34 30	11 11	12 12	42 33	0.28 0.28	0.24 0.24	92 89	0.39 0.37	1.79 1.77

Laminated (Outdoor Exposed Edges Use TPU*)

Ideal for Glass Railings

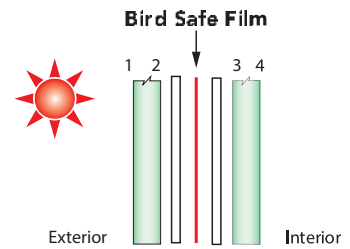
AI*

Visible Light

Reflectance

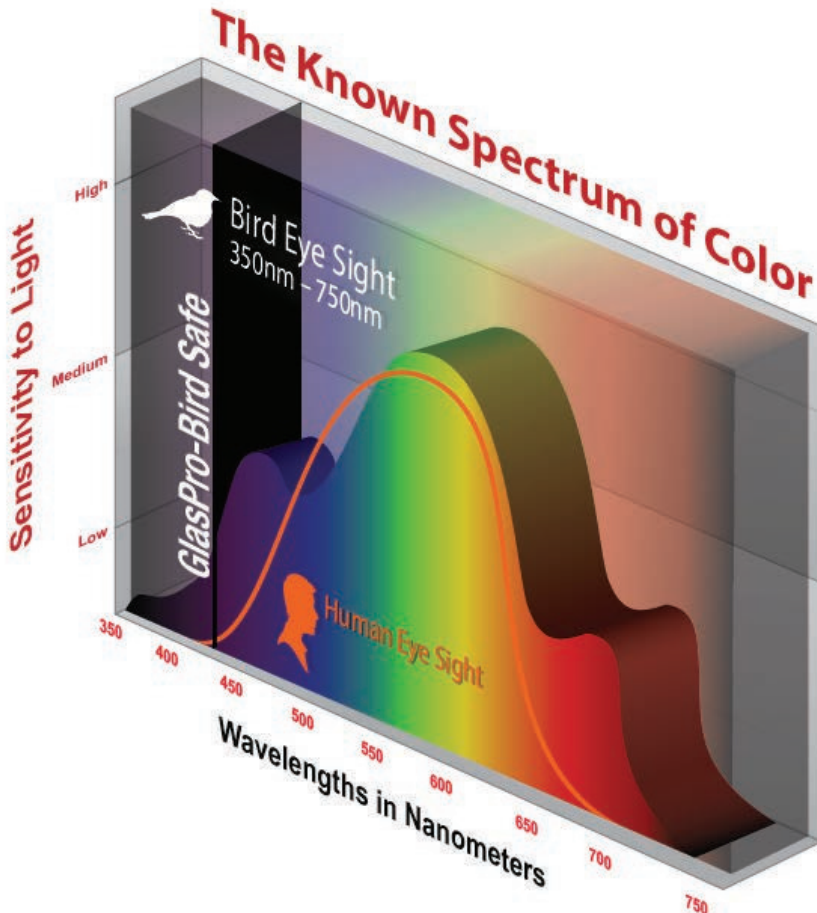
SHGC

Clear Bird Safe Clear	79 - 84	88	8	77
Low Iron Bird Safe Low Iron	79 - 84	89	8	76



* AI is the American Bird Conservancy "Avoidance Index"

* TPU is a water protective layer that will keep edges uncompromised for many years.



- Laminated Safety glass ANZI z97.1
- American Bird Conservancy Avoidance Index: 79%
- "Significantly exceeds the American Bird Conservancy's minimum standard for effective bird collision deterrent materials"
- Can be combined with high performance Low E glass to meet the performance standards required throughout North America
- LEED Pilot Credit 55: Bird Collision Deterrence
- 100% Made in the USA
- Fast lead times
- Minimal upkeep
- Extreme long life
- Easy to implement at the manufacturing stage
- Budget friendly compared to all other Bird-Friendly glass solutions

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