



 **WINGSAFE™**  
BIRD PROTECTION FILM

## Creating a safer flight path for birds.

Every year hundreds of millions of birds around the world die from colliding with windows and glass facades. This issue is a serious concern for nature conservation, as it impacts bird populations and biodiversity.

WingSafe Bird Protection Film from Solar Gard allows building owners and property managers to cost-effectively distinguish their glass to birds, preventing deadly collisions and promoting sustainability.

**WingSafe® Solar 80 Black Dot** is an approved solution and proud to hold a Threat Factor (TF) rating of 14 from the American Bird Conservancy, one of the world's leading organizations focused on bird conservation action and advocacy.

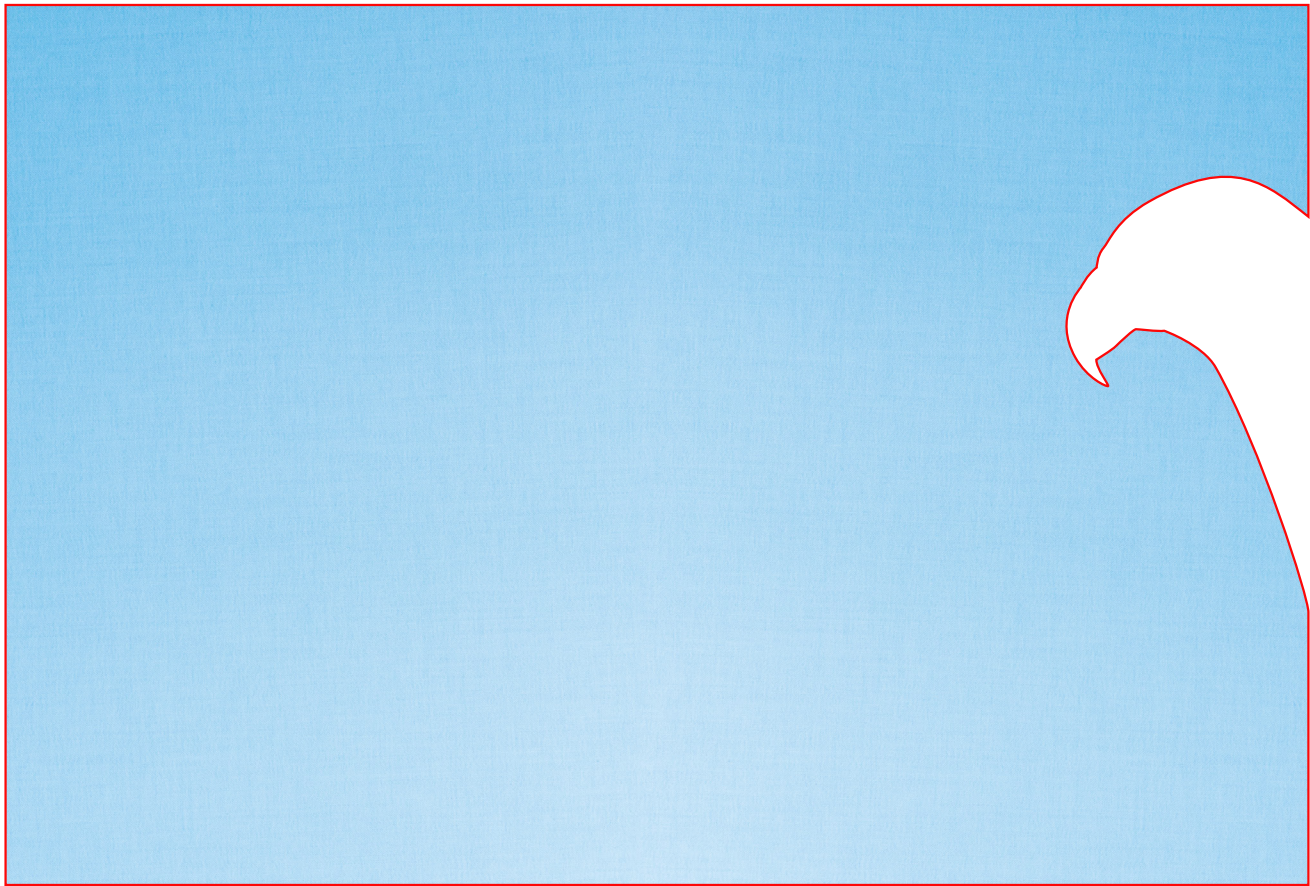


American Bird  
Conservancy

**TF = 14**  
THREAT FACTOR



# Solar Gard® WingSafe® Solar 80 Black Dot



PERFORMANCE RESULTS	1/8"	1/4"	1/4"+1/4"				
	(3mm)	(6mm)	(6mm+6mm)	1/8"	1/4"	1/4"+1/4"	
	(3mm)	(6mm)	(6mm+6mm)	(3mm)	(6mm)	(6mm+6mm)	
<b>VISIBLE LIGHT</b>				<b>THERMAL ENERGY</b>			
Transmittance %	76	75	67	Emissivity	.84	.84	.84
Reflectance exterior %	9	9	14	Winter U-Factor (BTU hr/ft <sup>2</sup> °F)	1.04	1.03	.47
Reflectance interior %	9	9	16	<b>FADE CONTROL</b>			
Glare reduction %	15	15	15	UV Tdw-ISO @ 300 to 700 nm %	55	54	48
<b>SOLAR ENERGY</b>				Fade reduction %	35	34	31
Total solar energy rejected %	45	45	57	Ultraviolet light blocked @ 300 to 380 nm %	>99	>99	>99
Solar heat gain coefficient	.55	.55	.43	All performance results are based on the film applied to 1/8" (3mm), 1/4" (6mm) 1/4"+1/4" (6mm+6mm) thick, clear glass.			
<b>ENERGY DISTRIBUTION</b>				<b>PHYSICAL PROPERTIES NOMINAL</b>			
Transmittance %	39	38	32	Gauge	2.0 mil (50 micron)		
Absorptance %	54	56	60				
Reflectance %	7	6	8				

**Notes**


1. Performance results are calculated using NFRC methodology and LBNL Window software, and are subject to variations within industry standards and only intended for estimating purposes. This data is provided for informational purposes only and are subject to normal manufacturing variances.
2. Performance results for glare and fade reduction are calculated by comparing filmed glass to that of untreated glazing.



[www.solargard.com/WingSAFE](http://www.solargard.com/WingSAFE)

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