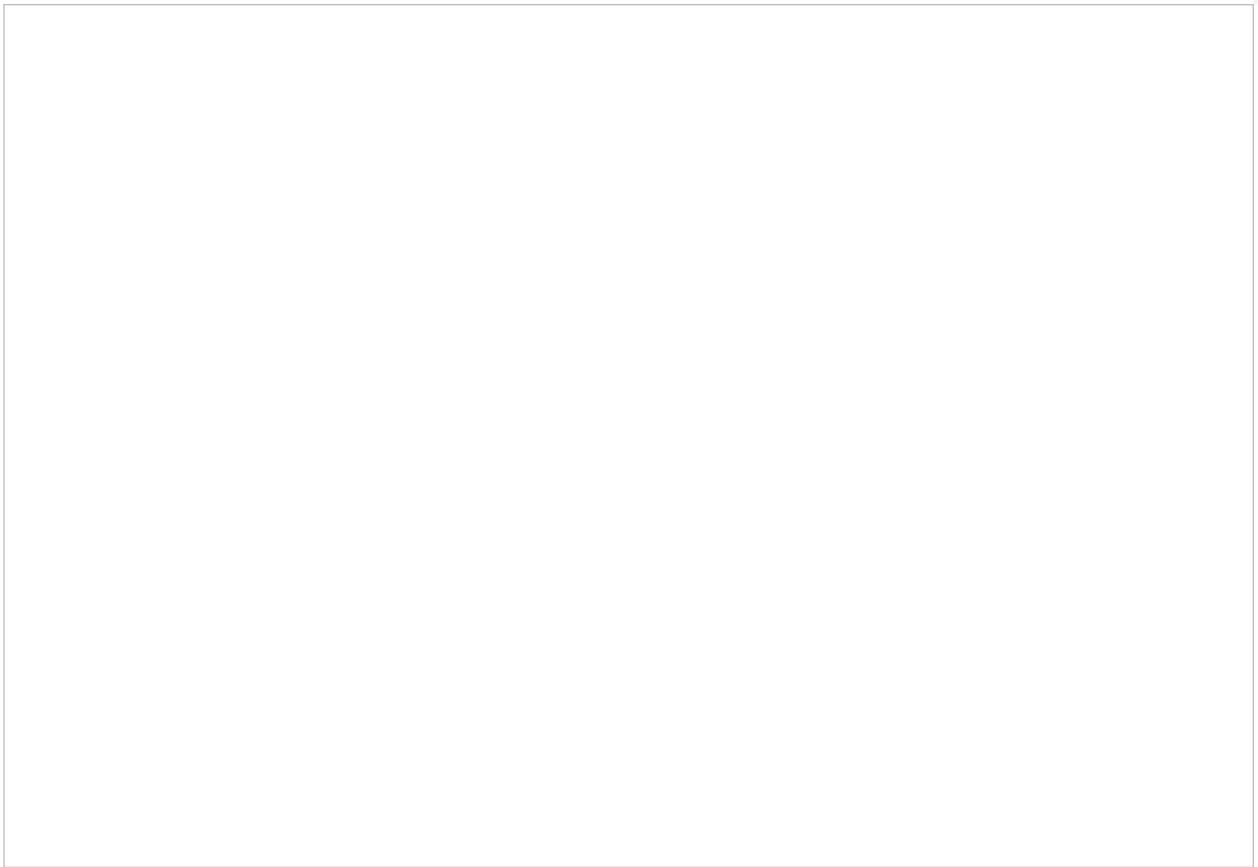


# PANORAMA® STERLING® 70

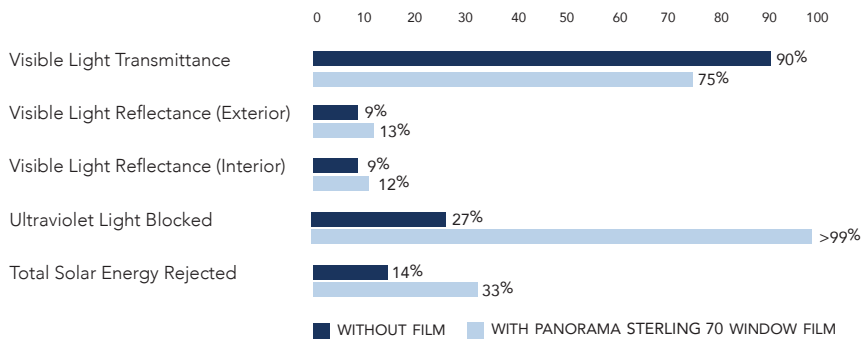


INTERIOR VIEW

## PANORAMA® STERLING® 70

Sterling 70 offers moderate heat reduction while maintaining maximum natural light. This film is lightly tinted, hardly noticeable from the inside, with a neutral reflective finish outside.

Comparison of performance on 1/8" (3mm) thick clear glass.



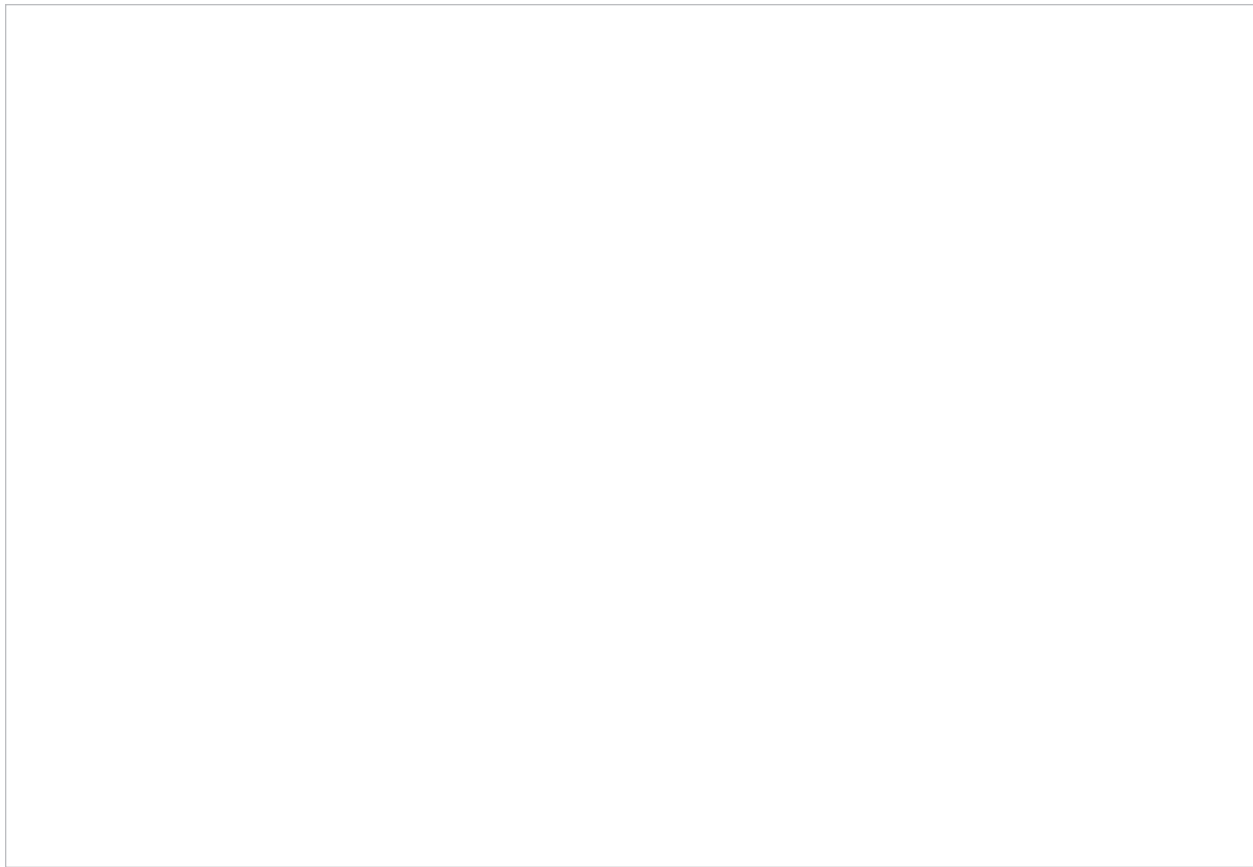
The Sterling Series offers a high level of visible light transmission and solar energy performance, generally with relatively higher reflectance.



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# PANORAMA® STERLING® 70



## Performance Parameters for Different Window Types

	1/8" (3mm) Single clear		1/4" (6 mm) Single clear		1/8" (3mm) Double clear		1/4" (6mm) Double clear	
	No film	Sterling 70	No film	Sterling 70	No film	Sterling 70	No film	Sterling 70
<b>Visible light</b>								
Transmittance %	90	75	89	74	81	68	79	66
Reflectance exterior %	9	13	9	13	16	19	15	18
Reflectance interior %	9	12	9	12	16	17	15	17
Glare reduction %	-	17	-	17	-	17	-	17
<b>Solar energy</b>								
Transmittance %	83	61	77	55	69	52	61	44
Absorptance %	9	22	16	31	18	28	27	40
Reflectance %	8	17	7	14	13	20	12	16
Total solar energy rejected %	14	33	18	36	24	36	30	39
Infrared rejection @ 780 to 2500 nm % <sup>1</sup>	20	58	28	84	-	-	-	-
Shading coefficient	.98	.77	.94	.74	.87	.74	.81	.70
Solar heat gain coefficient	.86	.67	.82	.64	.76	.64	.70	.61
Light to solar heat gain ratio (VLT/SHGC)	1.05	1.11	1.08	1.15	1.08	1.05	1.13	1.08
Solar heat gain reduction %	-	22	-	22	-	15	-	13
<b>Thermal energy</b>								
Emissivity	.84	.80	.84	.80	.84	.80	.84	.80
Winter U-factor (Btu hr/ft <sup>2</sup> °F)	1.04	1.02	1.02	1.01	.48	.48	.47	.47
Summer U-factor (Btu hr/ft <sup>2</sup> °F)	.94	.92	.92	.91	.50	.50	.50	.49
Winter heat loss reduction %	-	2	-	1	-	0	-	0
<b>Ultraviolet light</b>								
Blocked @ 300 to 380 nm %	27	>99	34	>99	41	>99	50	>99

<sup>1</sup> Infrared rejection = 1 - average unweighted transmittance using ASTM E 903.

EXTERIOR VIEW



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Performance results generated using LBNL Window 7.2 and NFRC standards. For full details and additional information please visit [www.solargard.com/panorama](http://www.solargard.com/panorama).

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