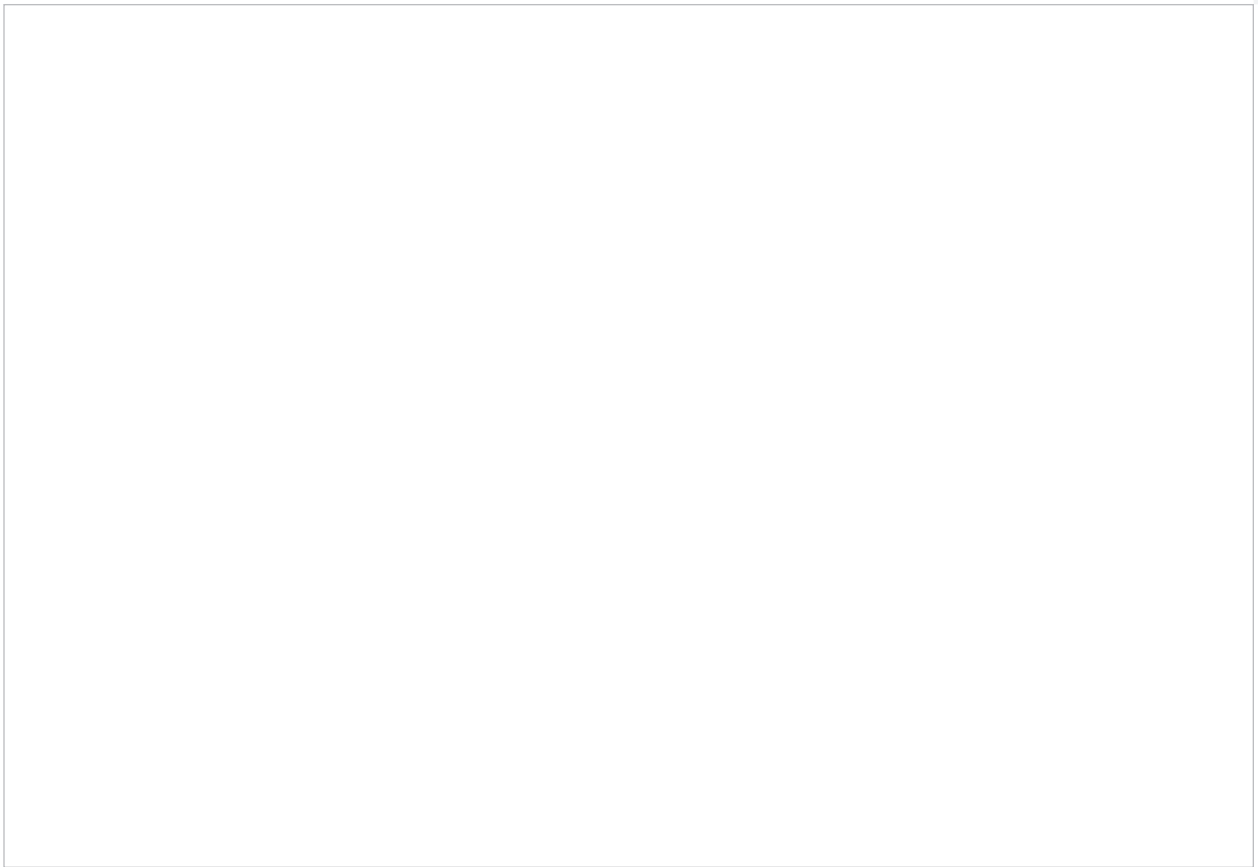


PANORAMA® STERLING® 50

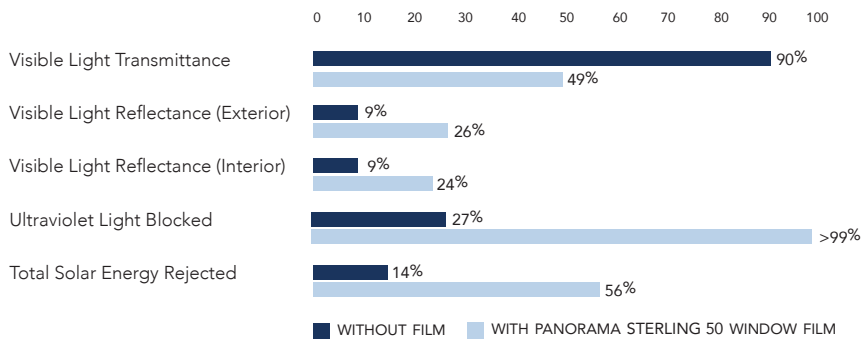


INTERIOR VIEW

PANORAMA® STERLING® 50

Sterling 50 offers increased heat and glare reduction, added privacy and ample natural light. This film is lightly tinted, with a soft reflective finish inside and outside.

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



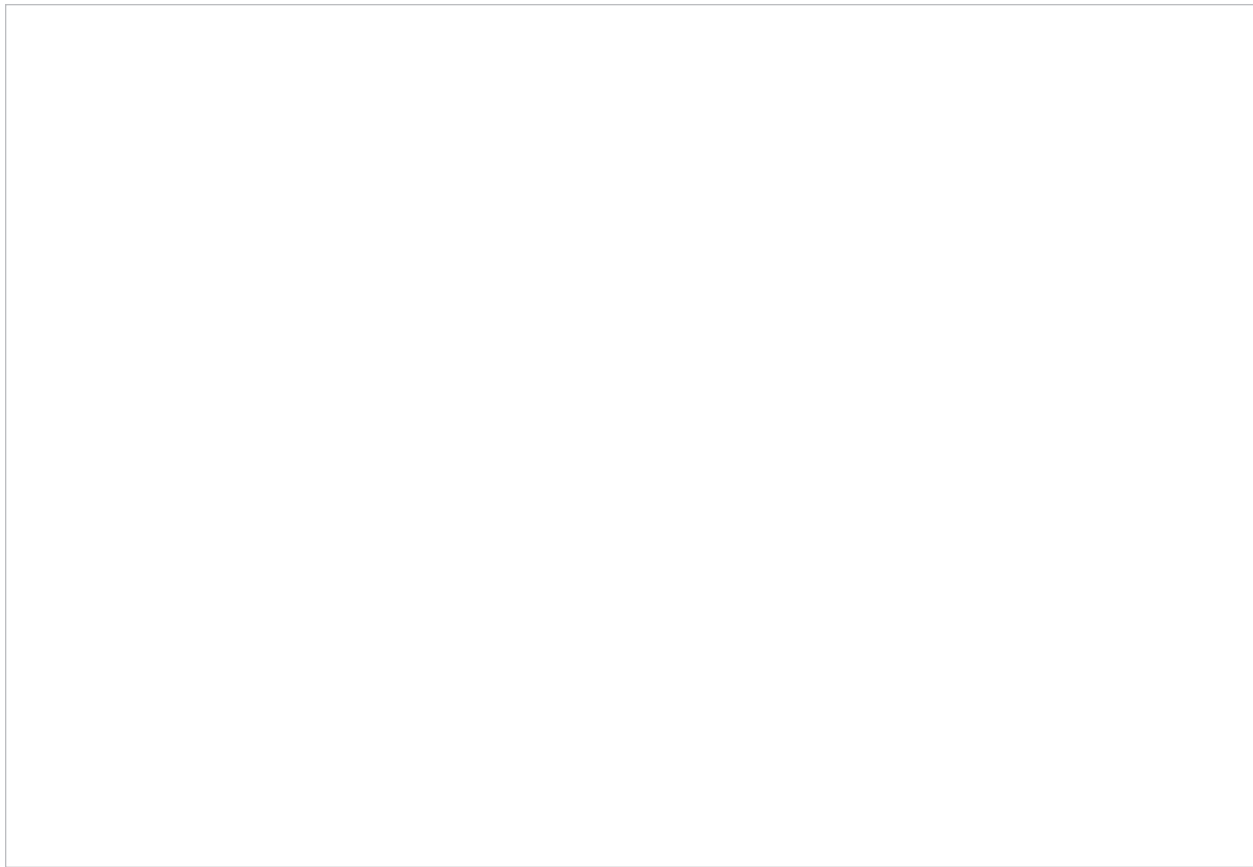
The Sterling Series offers a high level of visible light transmission and solar energy performance, generally with relatively higher reflectance.



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PANORAMA® STERLING® 50



EXTERIOR VIEW

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 50	No film	Sterling 50	No film	Sterling 50	No film	Sterling 50
Visible light								
Transmittance %	90	49	89	49	81	45	79	44
Reflectance exterior %	9	26	9	25	16	30	15	29
Reflectance interior %	9	24	9	24	16	26	15	26
Glare reduction %	-	45	-	45	-	44	-	44
Solar energy								
Transmittance %	83	35	77	33	69	30	61	27
Absorptance %	9	33	16	39	18	40	27	49
Reflectance %	8	32	7	28	13	30	12	24
Total solar energy rejected %	14	56	18	56	24	51	30	52
Infrared rejection @ 780 to 2500 nm % ¹	20	82	28	88	-	-	-	-
Shading coefficient	.98	.51	.94	.51	.87	.56	.81	.55
Solar heat gain coefficient	.86	.44	.82	.44	.76	.49	.70	.48
Light to solar heat gain ratio (VLT/SHGC)	1.05	1.12	1.08	1.11	1.08	.93	1.13	.92
Solar heat gain reduction %	-	48	-	46	-	35	-	31
Thermal energy								
Emissivity	.84	.69	.84	.69	.84	.69	.84	.69
Winter U-factor (Btu hr/ft ² °F)	1.04	.96	1.02	.95	.48	.46	.47	.45
Summer U-factor (Btu hr/ft ² °F)	.94	.85	.92	.84	.50	.48	.50	.47
Winter heat loss reduction %	-	8	-	7	-	4	-	4
Ultraviolet light								
Blocked @ 300 to 380 nm %	27	>99	34	>99	41	>99	50	>99

¹ Infrared rejection = 1 - average unweighted transmittance using ASTM E 903.



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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.

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