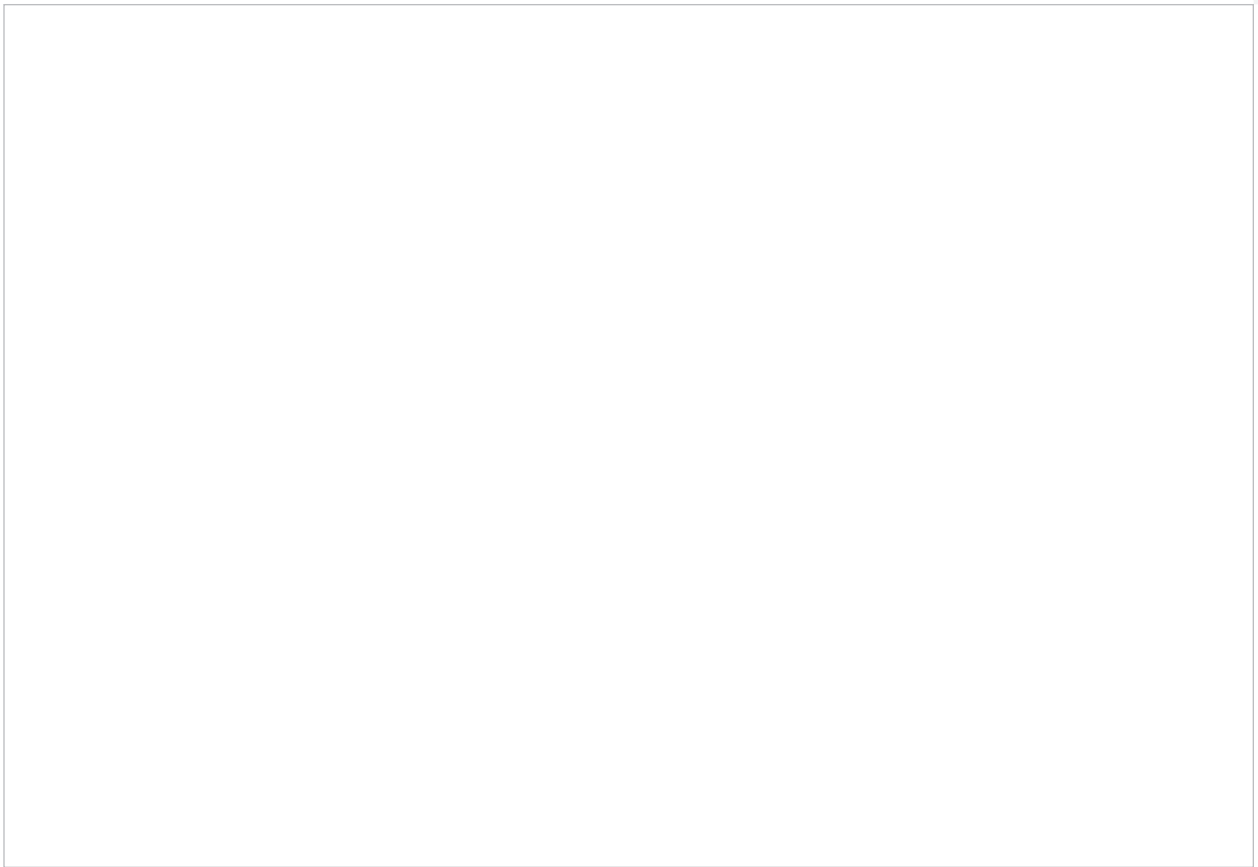


PANORAMA® STERLING® 20

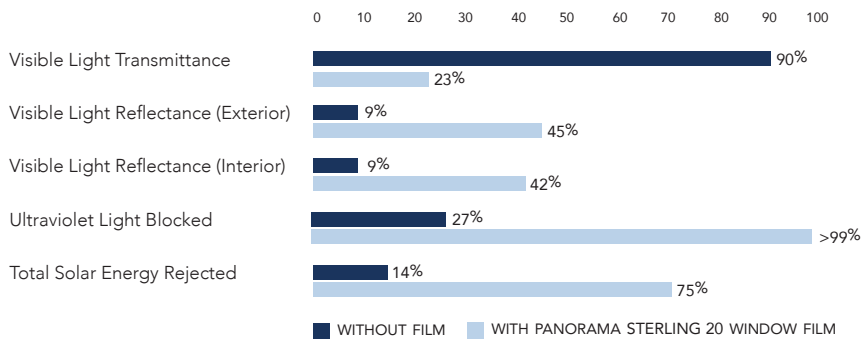


INTERIOR VIEW

PANORAMA® STERLING® 20

Sterling 20 offers optimum privacy, strong heat and glare reduction, with softened natural light. This film is neutrally tinted, with a reflective finish inside and outside.

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



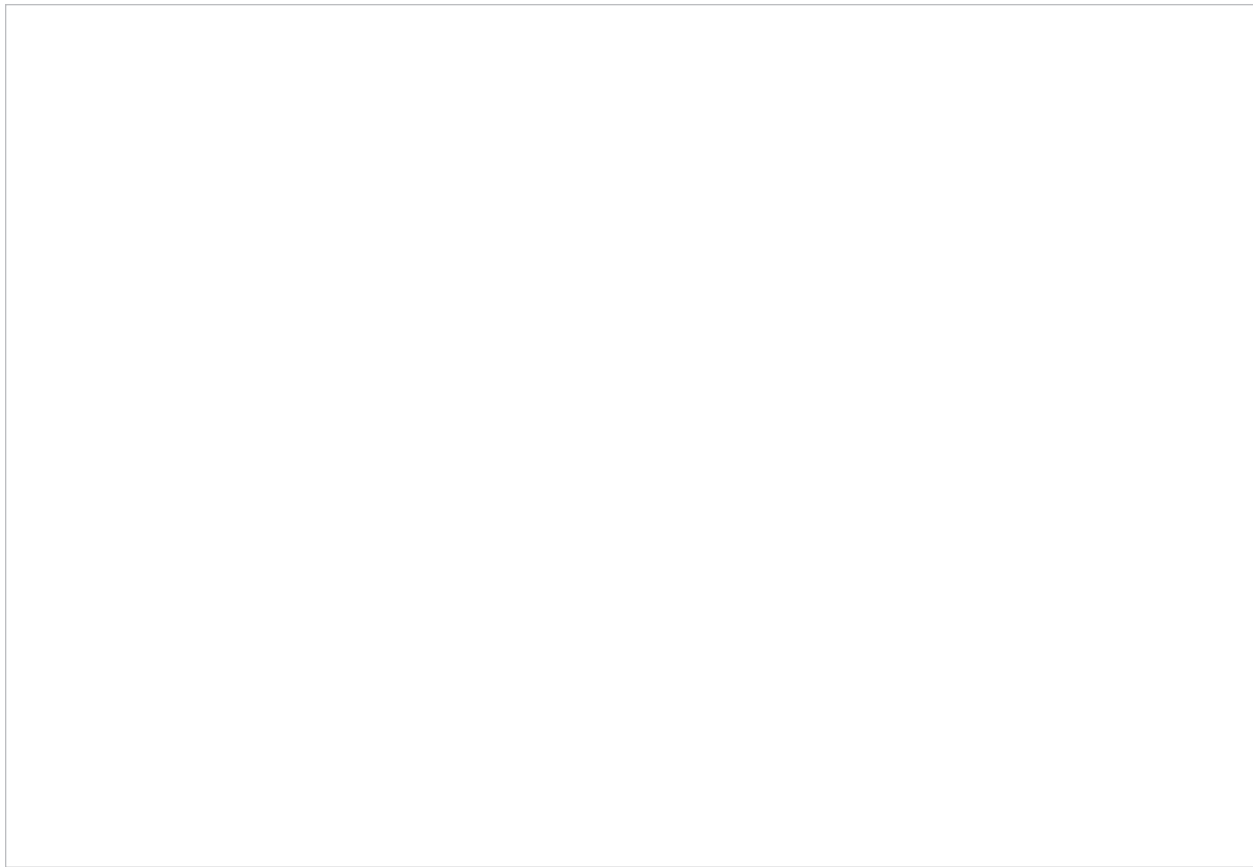
The Sterling Series offers a high level of visible light transmission and solar energy performance, generally with relatively higher reflectance.



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PANORAMA® STERLING® 20



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 20	No film	Sterling 20	No film	Sterling 20	No film	Sterling 20
Visible light								
Transmittance %	90	23	89	22	81	21	79	21
Reflectance exterior %	9	45	9	44	16	47	15	45
Reflectance interior %	9	42	9	42	16	43	15	43
Glare reduction %	-	75	-	75	-	74	-	74
Solar energy								
Transmittance %	83	15	77	14	69	13	61	12
Absorptance %	9	37	16	44	18	45	27	55
Reflectance %	8	48	7	42	13	42	12	33
Total solar energy rejected %	14	75	18	74	24	66	30	64
Infrared rejection @ 780 to 2500 nm % ¹	20	94	28	94	-	-	-	-
Shading coefficient	.98	.29	.94	.30	.87	.39	.81	.41
Solar heat gain coefficient	.86	.25	.82	.26	.76	.34	.70	.36
Light to solar heat gain ratio (VLT/SHGC)	1.05	.90	1.08	.84	1.08	.62	1.13	.57
Solar heat gain reduction %	-	71	-	68	-	55	-	49
Thermal energy								
Emissivity	.84	.67	.84	.67	.84	.67	.84	.67
Winter U-factor (Btu hr/ft ² °F)	1.04	.95	1.02	.94	.48	.45	.47	.45
Summer U-factor (Btu hr/ft ² °F)	.94	.84	.92	.83	.50	.47	.50	.47
Winter heat loss reduction %	-	9	-	8	-	6	-	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.

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.

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