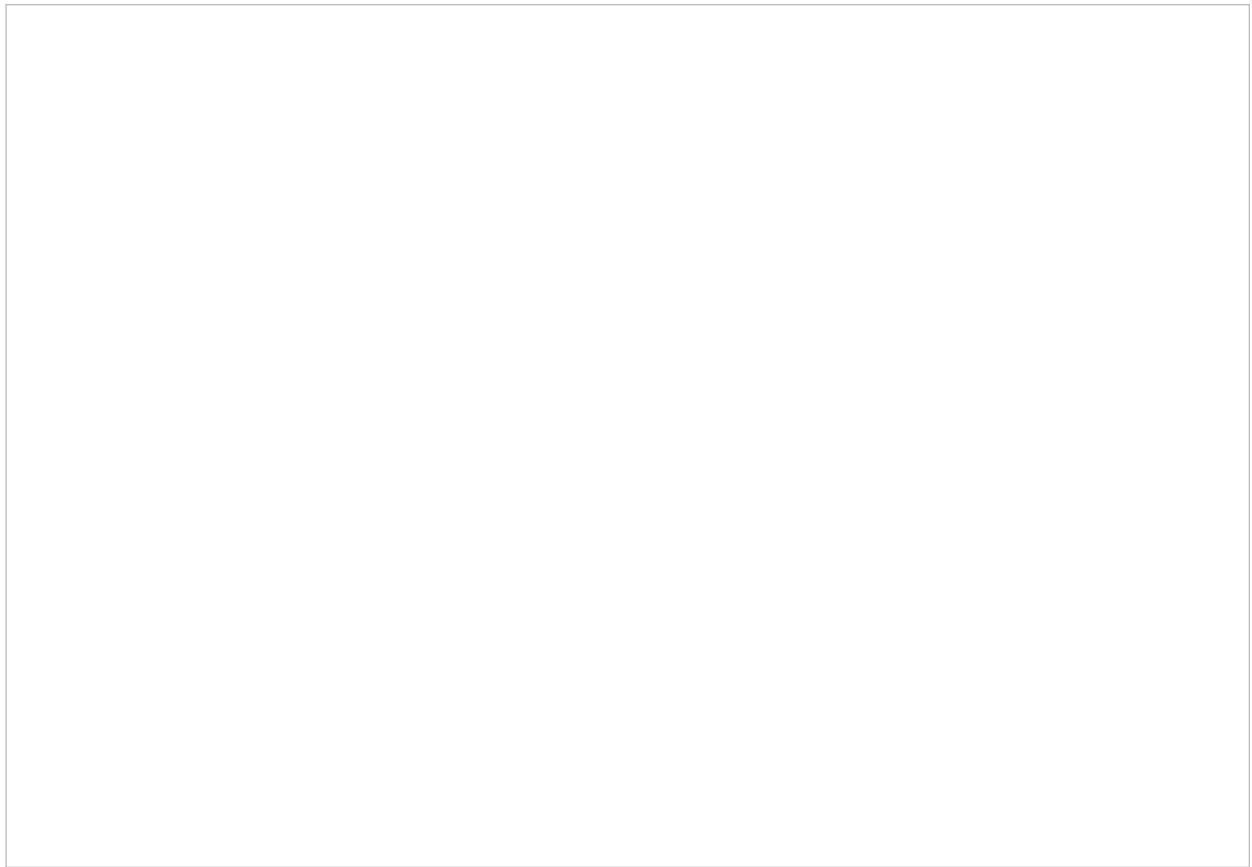


PANORAMA® SLATE 20

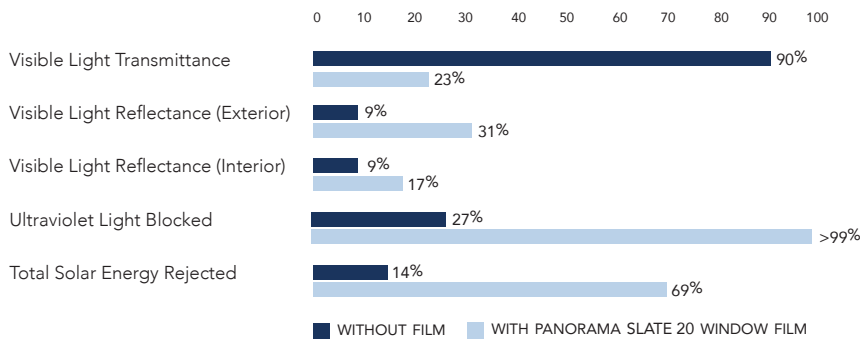


INTERIOR VIEW

PANORAMA® SLATE 20

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

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



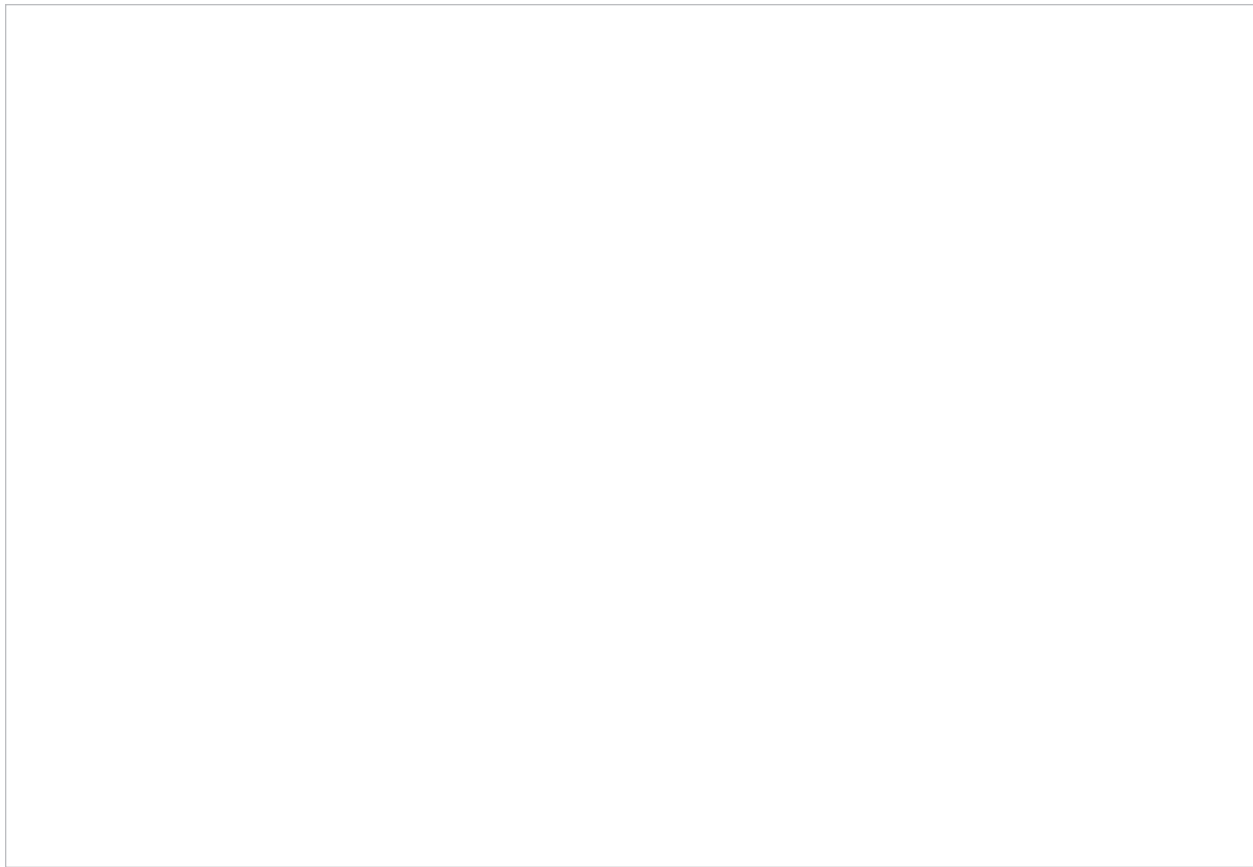
The Dual-Reflective Slate Series offers exceptional solar rejection performance with a more neutral finish. These films maintain views with reduced interior and exterior reflectance, while increasing privacy by day, and offering minimal reflectivity at night. The Slate Series is ideal for applications where glare is a primary consideration.



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PANORAMA® SLATE 20



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	Slate 20	No film	Slate 20	No film	Slate 20	No film	Slate 20
Visible light								
Transmittance %	90	23	89	22	81	21	79	20
Reflectance exterior %	9	31	9	30	16	34	15	33
Reflectance interior %	9	17	9	17	16	17	15	17
Glare reduction %	-	75	-	75	-	74	-	74
Solar energy								
Transmittance %	83	16	77	15	69	14	61	13
Absorptance %	9	48	16	53	18	53	27	60
Reflectance %	8	36	7	32	13	33	12	27
Total solar energy rejected %	14	69	18	68	24	58	30	58
Infrared rejection @ 780 to 2500 nm % ¹	20	92	28	93	-	-	-	-
Shading coefficient	.98	.35	.94	.37	.87	.48	.81	.49
Solar heat gain coefficient	.86	.31	.82	.32	.76	.42	.70	.42
Light to solar heat gain ratio (VLT/SHGC)	1.05	.74	1.08	.71	1.08	.50	1.13	.48
Solar heat gain reduction %	-	64	-	61	-	45	-	40
Thermal energy								
Emissivity	.84	.84	.84	.84	.84	.84	.84	.84
Winter U-factor (Btu hr/ft ² °F)	1.04	1.04	1.02	1.02	.48	.48	.47	.47
Summer U-factor (Btu hr/ft ² °F)	.94	.94	.92	.92	.50	.50	.50	.50
Winter heat loss reduction %	-	0	-	0	-	0	-	0
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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