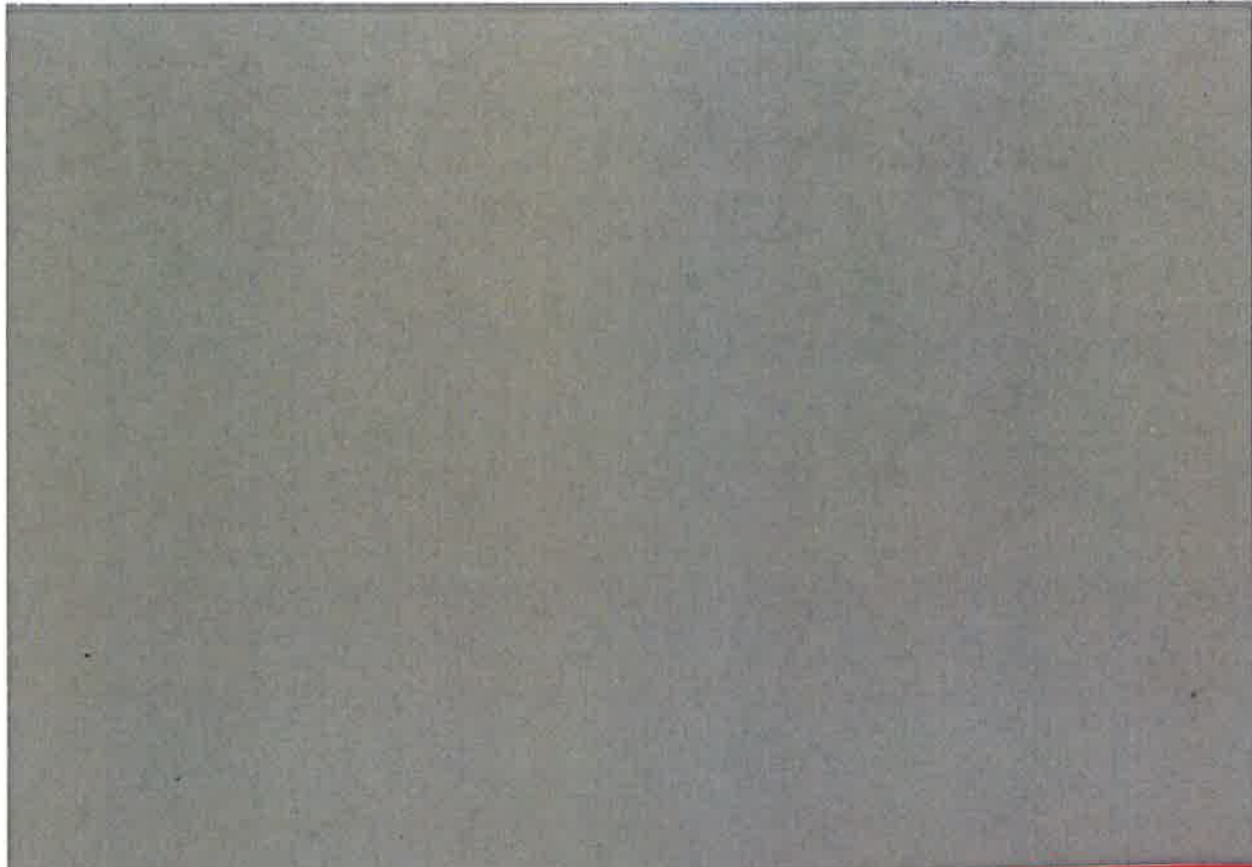




Interior Side

Benefits and selection criteria

- + Rejects up to 57% of solar energy and retains heat in cooler months reducing year round energy costs
- + Blocks >99% of ultraviolet rays*, helping to protect furnishings by reducing premature fading
- + Designed for colder climates to reduce heat loss
- + Optically-clear sputtered film with advanced color stable technology
- + Manufacturer's limited warranty†



Exterior Side

Performance data

	% Total Solar Transmittance	% Total Solar Reflectance	% Total Solar Absorptance	% Visible Light Transmittance	% Visible Reflectance (exterior)	% Visible Reflectance (interior)	Winter U-value	Shading Coefficient	% UV Ray Protection (wavelengths 280-380nm)	Emissivity	Solar Heat Gain Coefficient	% Total Solar Energy Rejected	Light-to-Solar Heat Gain Ratio (LSG)	% Summer Solar Heat Gain Reduction	% Winter Heat Loss Reduction	% Glare Reduction
Clear Glass 1/8" (3mm) single pane	83	8	9	90	8	8	1.03	1.00	29	0.84	0.86	14	1.05	-	-	-
VE50 SR CDF 1/8" (3mm) clear single pane	37	30	33	51	22	24	0.81	0.51	>99	0.41	0.45	55	1.13	48	22	43
Clear Glass 1/8" (3mm) dual pane	70	13	17	81	15	15	0.48	0.88	44	0.84	0.76	24	1.07	-	-	-
VE50 SR CDF 1/8" (3mm) clear dual pane	31	29	40	46	28	28	0.41	0.55	>99	0.41	0.48	52	0.96	37	15	43
Clear Glass 1/4" (6mm) single pane	77	7	16	88	8	8	1.03	0.94	38	0.84	0.82	18	1.07	-	-	-
VE50 SR CDF 1/4" (6mm) clear single pane	34	27	39	49	23	26	0.79	0.49	>99	0.41	0.43	57	1.14	48	23	44
Clear Glass 1/4" (6mm) dual pane	61	11	28	79	14	14	0.47	0.81	54	0.84	0.70	30	1.13	-	-	-
VE50 SR CDF 1/4" (6mm) clear dual pane	27	23	50	44	26	28	0.41	0.54	>99	0.41	0.47	53	0.94	33	13	44

The solar performance data reported for Vista by Llumar architectural window films was captured using the National Fenestration Rating Council's (NFRC) standard guidelines for window film solar performance measurement. All safety and performance data has been measured in accordance with ASTM, ASHRAE, AIA/CES, and ANSI standards using NFRC methodology with Lawrence Berkeley National Lab's WINDOW Fenestration Analysis Software. Reported values are taken from representative product samples and are subject to normal manufacturing variances. Actual performance will vary based on a number of factors, including glass type and properties.