



Sierra Solar Screen Fabric Product Specifications

Benefits: Sierra solar screen fabric offers value and performance in 6 color choices to complement any décor. Woven in a 2 x 2 basketweave pattern to maximize clarity of view.

Specifications:	
Category	Solar Screen Fabric
Openness Factor	1%, 3%, & 5%
UV Blockage	Approximately 95-99%
Weave style	2 x 2 Basketweave
Composition	24% Polyester, 76% PVC
Width	118" (300 cm) ±5 mm
Thickness	0.024" (0.55 mm) ±5%
Weight	400 g/m2

Fire Classifications:	NFPA 701-2019 TM#1; California U.S. Title 19; CAN/ULC-S109-14 Small Flame Test; BS 5867: 2008 Part 2: Type B
Anti-Microbial Properties:	Bacterial Resistance: ASTM E2180; Fungal Resistance: ASTM G21, AATCC 30
Certifications:	GreenGuard Gold; REACH; Confidence in Textiles Oko-Tex Standard 100
Environmental Benefits:	RoHS - Lead Free
Acoustical Performance:	ASTM C423
Care & Cleaning:	Dust removal with vacuum, compressed air, or soft brushing. Do not scrub. Wipe clean with sponge using clean water.

Fenestration Properties: Fabrics installed internally, (Solar Optical Properties) Zero-degree profile		Definition of terms:				
Color		Ts= Solar Transmittance				
1% open colors	Ts Rs As Tv SHGC*	Energy that is allowed to pass through				
White	20 70 10 17 0.27	Rs= Solar Reflectance				
White/Grey	10 52 38 6 0.31	Energy that is reflected away				
White/Linen	14 60 26 9 0.30	As= Solar Absorptance				
Charcoal/Bronze	2 8 90 2 0.43	Energy that is absorbed by the fabric				
Black	1 4 95 2 0.44	Tv= Visible Light Transmission				
Black/Dark grey	1 11 88 2 0.42	Percentage of visible light that comes into the room				
3% open colors		OF= Openness Factor				
White	23 68 9 20 0.28	Percentage of fabric that is open (between the threads)				
White/Grey	12 49 39 9 0.32	SHGC= Solar Heat Gain Coefficient				
White/Linen	17 57 26 13 0.30	The percentage of incident solar radiation that is transmitted as heat to the interior through the glass and shading system*.				
Charcoal/Bronze	5 9 86 7 0.43					
Black	3 4 93 5 0.44					
Black/Dark grey	4 12 84 5 0.42	CL= Clear Glass				
5% open colors		*Glass tested: 1/4" Heat Absorbing. SHGC was calculate				

White	25	65	9	22	0.29
White/Grey	14	49	37	11	0.32
White/Linen	19	57	24	15	0.30
Charcoal/Bronze	7	8	85	10	0.44
Black	5	4	91	8	0.44
Black/Dark grey	5	11	84	5	0.43

by multiplying SC (Shading Coefficient provided by fabric mill) by 0.87.

The solar optical properties are used to calculate the shading coefficient. The shading coefficient represents the percentage of solar heat gain that is transmitted to the interior through the glass and shading system. Darker colors provide maximum glare reduction and visibility.