

SunScreen® Exterior Shading Fabric

Specifications

Phifer SunScreen is woven vinyl-coated fiberglass screening manufactured for the primary use of reducing solar heat gain in the summer and reducing heat loss in winter. SunScreen absorbs and dissipates up to 70 percent of the sun's heat and glare before it reaches the window. SunScreen is easily installed on any type and size of window and also performs as an insect screening.

Standard Colors: Charcoal, Silver Gray and Bronze
Standard Widths: 36" (91.4cm), 48" (121.9cm), 60" (152.4cm) and 84" (213.4cm); 72" (182.9cm) in Charcoal and Bronze only
Standard Roll Length: 100 linear feet (30.48M)
Mesh/in.: 57 Warp, 16 Fill
Mesh Weight: 8.5 oz./yd² (288 gr/m²)

Yarn Diameter (in.): .011 Warp, .013 Fill
Fabric Thickness: .019 in. (0.48mm)
Openness Factor: Approximately 25%
UV Blockage: Approximately 75%
Breaking Strength (lb.): 190 Warp, 105 Fill
Stiffness (Mg.): 275 Warp, 95 Fill
Stretch: 1.0% Warp, 1.0% Fill

**Table I. Solar Heat Control Properties of Phifer SunScreen Fabrics
 Installed As Screens, 30-Degree Profile Angle**

Color	* Solar Optical Properties				Shading Coefficient w/		
	T _S	R _S	A _S	T _V	1/8CL	1/4CL	1/4HA
Charcoal	24	5	71	28	0.33	0.33	0.31
Silver Gray	24	13	63	26	0.32	0.32	0.30
Bronze	26	14	60	27	0.34	0.34	0.31

**Table II. Solar Heat Control Properties of Phifer SunScreen Fabrics
 Installed Internally, Zero-Degree Profile Angle**

Color	* Solar Optical Properties				Shading Coefficient w/		
	T _S	R _S	A _S	T _V	1/8CL	1/4CL	1/4HA
Charcoal	25	6	69	29	0.77	0.73	0.53
Silver Gray	22	16	62	24	0.70	0.66	0.49
Bronze	26	14	60	27	0.72	0.68	0.51

* Performance evaluations conducted by Matrix, Inc., Mesa, Arizona.

TS = Solar Transmittance 1/8 CL = 1/8" Clear Glass
 RS = Solar Reflectance 1/4 CL = 1/4" Clear Glass
 AS = Solar Absorptance 1/4HA = 1/4" Heat Absorbing Glass
 TV = Visual Transmittance

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.

For complete technical information, test results, performance specifications and larger samples, contact our Sun Control Marketing Department.



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