



Mesa Solar Screen Fabric Product Specifications

Benefits: Mesa solar screen fabric is woven in a 2 x 2 basketweave pattern, and is available in wide widths. Each color is available in 4 densities, making Mesa a versatile choice for diverse projects.

Specifications			
Category	Solar Screen Fabric		Composition 1%: 37% fiberglass, 63% vinyl on fiberglass
Openness Factor	1%, 3%, 5% and 10%		3%: 35% fiberglass, 65% vinyl on fiberglass
Weave style	2 x 2 Basket weave		5%: 35% fiberglass, 65% vinyl on fiberglass
			10%: 35% fiberglass, 65% vinyl on fiberglass
UV Blockage	1%	Approx. 99%	Width 1%, 3%, 5%- 126", 10%- 98"
	3%	Approx. 97%	
	5%	Approx. 95%	
	10%	Approx. 90%	
Weight	1%	16.25 oz/yd ² (551 g/m ²) ±5%	Thickness 1%- 0.024" (0.61 mm) ±5%
	3%	14.1 oz/yd ² (471 g/m ²) ±5%	3%- 0.019" (0.48 mm) ±5%
	5%	11.8 oz/yd ² (403 g/m ²) ±5%	5%- 0.017" (0.43 mm) ±5%
	10%	10.5 oz/yd ² (356 g/m ²) ±5%	10%- 0.017" (0.43 mm) ±5%

Fire Classifications:	NFPA 701-10 TM#1 (small scale) California U.S. Title 19 (small scale) IBC Section 803.1.1 (Tested in accordance with ASTM E84) Class "A" rating BS 5867 2008 Part 2 Type B Performance, NFPA 701 TM#2 (large scale) CAN/ULC-S109-03 (large and small scale) ASTM E 84 (Class 1) CAN/CGSB2-4.162-M80
------------------------------	--

Anti-Microbial Properties:	ASTM E2180, ASTM G21 AATCC30 Part 3, ASTM D 3273 GreenGuard Mold and Bacteria Standard ASTM 6329 Includes Microban antimicrobial additives
-----------------------------------	---

Certifications:	GreenGuard Gold Melanoma International Foundation Seal of Approval
------------------------	---

Environmental Benefits:	RoHS/Directive 2002/95/EC- Lead Free US Consumer Product Safety Commission Section 101 ANSI/WCMA A 100.1-2007 for lead content REACH (EC 1907/2006) compliant
--------------------------------	--

Acoustical Performance:	NRC: 0.55, SAA: 0.54
--------------------------------	----------------------

Care & Cleaning:	Mesa contains Microban antimicrobial protection; the following cleaning practices will not affect the products' ability to resist the growth of microorganisms, and are considered safe for routine cleaning. >Clean with mild soap and water. >Commercial and hospital grade cleaners/disinfectants may be used: test in an inconspicuous area to ensure compatibility. >Paint solvents will damage the vinyl surface of the fabric and should not be used.
-----------------------------	--

For complete technical information, current test results, performance specifications and larger samples, contact the Insolroll, Inc.

Fenestration Properties (Solar Optical Properties)	Fabrics installed internally, Zero-degree profile				
---	--	--	--	--	--

1% open colors

Color	Ts	RS	AS	TV	SHGC*
Oyster	15	68	17	13	0.22
Beige	7	50	43	6	0.25
Beige/Pearl Grey	5	42	53	5	0.28
Pearl Grey	3	32	65	3	0.3
Charcoal/Alpaca	1	16	83	2	0.34
Charcoal/Chestnut	1	6	93	1	0.37
Charcoal	1	4	95	1	0.37

3% open colors

Oyster	17	64	19	12	0.23
Beige	10	48	42	7	0.026
Beige/Pearl Grey	7	39	54	5	0.29
Pearl Grey	6	31	63	5	0.3
Charcoal/Alpaca	4	20	76	5	0.33
Charcoal/Chestnut	3	6	91	3	0.37
Charcoal	3	3	94	3	0.37

5% open colors

Oyster	21	61	18	14	0.23
Beige	14	47	39	10	0.27
Beige/Pearl Grey	11	38	51	9	0.29
Pearl Grey	10	31	59	9	0.3
Charcoal/Alpaca	7	18	75	9	0.34
Charcoal/Chestnut	6	6	88	6	0.37
Charcoal	4	4	92	5	0.37

10% open colors

Oyster	27	57	16	21	0.25
Beige	19	44	37	16	0.28
Beige/Pearl Grey	17	39	44	15	0.3
Pearl Grey	16	30	54	14	0.31
Charcoal/Alpaca	12	15	73	16	0.35
Charcoal/Chestnut	11	5	84	12	0.37
Charcoal	10	4	86	11	0.37

The performance tests were conducted in accordance with EN 14501-2005, ASTM E903-96. Glass performance tests were conducted using the Lawrence Berkeley National Laboratory Window 6.3 NFRC certified software. Acoustical performance tested in accordance with ASTM C423-09a.

Glass Performance

Glass Type: 6mm/ 1/2"air/6mm
 Low E on surface #2
 Appearance: Clear
 Tv- 70
 SHGC (G-value)- 0.38

Definition of terms:

Ts = Solar Transmittance	Energy that is allowed to pass through
Rs = Solar Reflectance	Energy that is reflected away
As = Solar Absorptance	Energy that is absorbed by the fabric
Tv = Visible Light Transmission	Percentage of visible light that comes into the room
OF = Openness Factor	Percentage of fabric that is open (between the threads)
SHGC = Solar Heat Gain Coefficient	The percentage of incident solar radiation that is transmitted as heat to the interior through the glass and shading system*.
NRC = Noise Reduction Coefficient	
SAA = Sound Absorption Average	
CL = Clear Glass	

*Glass tested: 1HA= 1" Heat Absorbing glass.