

### SPECIFICATION DATA – E SCREEN 7505

Composition	36% Fiberglass/64% PVC	Fire Classification:
Width	78" (200cm), 98" (250cm), 122" (310cm)	NFPA 701-96 TM #1
Weight	11.6 oz/yd <sup>2</sup> (395 g/m <sup>2</sup> ) ± 5%	California U.S. Title 19
Thickness	0.40 mm (16 mil) ± 5%	
Yarn Count	Warp/56 Weft/51 (per inch)	
Breaking Strength	Warp ~ 250 / Weft ~ 270 (lbs/inch)	

### FENESTRATION PROPERTIES FOR 3G MERMET E SCREEN 7505

Openness Factor of 5%		Thermal Factors					Optical Factors
Number	Description	Ts	Fabric Rs	As	Fabric + Glazing 1/4" Cl. S/C (Internal)	1/4" H.A.	Tv
0202	White	27	59	14	0,41	0,36	20
0220	White/Linen	25	54	21	0,43	0,37	18
0207	White/Pearl	21	46	33	0,47	0,39	17
2020	Linen	17	53	30	0,42	0,36	13
0720	Pearl/Linen	17	42	41	0,49	0,40	13
0707	Pearl	18	33	49	0,55	0,43	14
3001	Charcoal/Grey	8	10	82	0,68	0,50	8
3006	Charcoal/Bronze	8	6	86	0,69	0,51	9
3030	Charcoal	7	4	89	0,70	0,51	8

### SPECIFICATION DATA – E SCREEN 7510

Composition	36% Fiberglass/64% PVC	Fire Classification:
Width	78" (200cm), 98" (250cm), 122" (310cm)	NFPA 701-96 TM #1
Weight	10.3 oz/yd <sup>2</sup> (350 g/m <sup>2</sup> ) ± 5%	California U.S. Title 19
Thickness	0.40 mm (16 mil) ± 5%	
Yarn Count	Warp/56 Weft/38 (per inch)	
Breaking Strength	Warp ~ 243 / Weft ~ 204 (lbs/inch)	

### FENESTRATION PROPERTIES FOR 3G MERMET E SCREEN 7510

Openness Factor of 10%		Thermal Factors					Optical Factors
Number	Description	Ts	Fabric Rs	As	Fabric + Glazing 1/4" Cl. S/C (Internal)	1/4" H.A.	Tv
0202	White	30	57	13	0,43	0,37	23
0220	White/Linen	28	53	19	0,45	0,38	22
0207	White/Pearl	24	47	29	0,48	0,39	20
2020	Linen	24	48	28	0,47	0,39	19
0720	Pearl/Linen	24	39	37	0,53	0,42	19
0707	Pearl	26	32	42	0,57	0,45	20
3001	Charcoal/Grey	10	8	82	0,68	0,50	12
3006	Charcoal/Bronze	13	5	82	0,71	0,52	14
3030	Charcoal	11	4	85	0,71	0,52	12

The solar transmittance (Ts), solar reflectance (Rs), solar absorptance (As), ultra-violet transmittance (Tuv), visible light transmittance (Tv) and Openness-Factor (O-F) were determined for the fabric alone. The Shading Coefficients (SC) were determined for the fabric used with a single light of 1/8" double strength glass, a 1/4" clear plate and a 1/4" heat absorbing (H.A.) plate. The Shading Coefficients are for the fabric hung internally unless otherwise indicated. The test data and calculated results are presented in the above table. The Ts, Rs, As, Tuv, Tv and O-F are expressed as percentages. The above fenestration property tests were conducted by Matrix, Inc. at its Mesa, Arizona solar laboratory. The samples were tested in accordance with ASHRAE Standard 74-1988, "Methods of Measuring Solar-Optical Properties of Materials."

## Understanding Solar Terminology

### Solar Optical Properties

**O-F = Openness Factor:** The amount of sunlight that passes through the material.

**TS=Solar Transmittance:** The amount of solar energy (ultraviolet, visible and infrared) that is allowed to pass through a window and associated treatments

**RS=Solar Reflectance:** The total amount of heat that is reflected back out of the window glass and associated window treatment. Reflected heat is pushed out and consequently will not heat up the room.

**AS=Solar Absorptance:** The amount of total solar energy (ultraviolet, visible and infrared) that is neither reflected out nor transmitted in.

**TV=Visual Transmittance:** The amount of visible solar energy that is allowed to pass through a window and associated window treatment.

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. The lower the value the better the control. Lightest colors stop heat the best. Darker colors provide maximum glare reduction and outward visibility.



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