

INC. 537 S. 31<sup>ST</sup> ST. • MESA, AZ 85204 USA • PH: (480) 832-1380 • FAX: (480) 832-9261 • EMAIL: MATRIXSOLAR@COX.NET

FENESTRATION PROPERTIES FOR TUNG FONG TEXTILES SHADE FABRICS  
 INTERNAL USE ZERO DEGREE PROFILE ANGLE  
 December 8, 2009

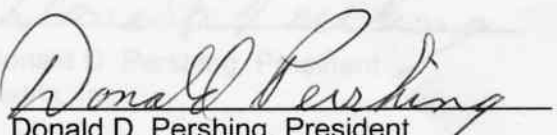
Description	Ts	Rs	As	Tv	Tuv	O-F	SC	SC	SC
Report No. 11-501 to: Tung Fong Textile Co., Ltd. 6 Si-An Rd. Homei Changhua 508 Taiwan R.O.C.									
F70-156 White	7	7	0.43	0.47	0.37				
F70-169 White/Linen	20	7	0.46	0.44	0.38				
Subject of Report: Solar Heat Control Properties Of Twelve Shade Fabrics			0.43	0.42	0.38				
F70-172 Grey	17	30	0.53	0.48	0.41				

Matrix, Inc. at its Mesa, Arizona, USA, solar laboratory obtained fenestration data for the shade fabrics. The testing was completed on December 8, 2009. The samples were tested in accordance with ASHRAE Standard 74-1988, "Methods of Measuring Solar-Optical Properties of Materials." The samples were supplied and identified by Tung Fong Textile Co., Ltd.

The solar transmittance (Ts), solar reflectance (Rs), solar absorptance (As), visible light transmittance (Tv), ultra-violet transmittance (Tuv) 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 inch double strength glass, a 1/4 inch clear plate and a 1/4 inch heat absorbing (H.A.) plate. The Shading Coefficients are for the fabric hung internally at zero degree profile angle unless otherwise indicated. The test data and calculated results are presented in the following table. The Ts, Rs, As, Tv, Tuv and O-F are expressed as percentages.

Appendix A accompanying this report must be considered a part of this report and be used when interpreting the following data.

Certified by:




Donald D. Pershing, President  
 Matrix, Inc.

FENESTRATION PROPERTIES FOR TUNG FONG TEXTILES SHADE FABRICS  
 INTERNAL USE ZERO DEGREE PROFILE ANGLE

Description	Ts	Rs	As	Tv	Tuv	O-F	-----SC-----		
							1/8" Cl.	1/4" Cl.	1/4" H.A.
<b>48X48/150DX150D</b>									
F70-168 White	30	58	12	29	9	9	0.43	0.42	0.37
F70-169 White/Linen	27	53	20	26	8	8	0.45	0.44	0.38
F70-170 Ivory	29	58	13	28	9	9	0.42	0.42	0.36
F70-171 Linen	24	46	30	23	8	8	0.50	0.48	0.40
F70-172 Grey	17	30	53	18	9	9	0.59	0.57	0.44
F70-173 Caramel	24	43	33	23	9	9	0.52	0.50	0.41
F70-174 Bronze	9	7	84	13	8	9	0.73	0.69	0.51
F70-175 Charcoal /Bronze	9	5	86	14	9	9	0.74	0.70	0.51
F70-176 Charcoal /Grey	10	10	80	14	9	9	0.71	0.67	0.50
F70-177 Charcoal	9	3	88	13	8	9	0.75	0.71	0.52
F70-178 White/Pearl	19	44	37	19	9	9	0.50	0.48	0.40
F70-238 Pewter	14	9	77	19	9	9	0.73	0.69	0.51

Certified by:



Donald D. Pershing, President  
 Matrix, Inc