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October 3, 2009

Report No. 11-483 to: Tung Fong Textile Co., Ltd.
6 Si-An Rd.
Homei Changhua 508
Taiwan R.O.C.


Subject of Report: Solar Heat Control Properties
Of Seven Shade Fabrics

Matrix, Inc. at its Mesa, Arizona, USA, solar laboratory obtained fenestration data for the shade fabrics. The testing was completed on October 1, 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 (T_s), solar reflectance (R_s), solar absorptance (A_s), visible light transmittance (T_v), ultra-violet transmittance (T_{uv}) 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 T_s , R_s , A_s , T_v , T_{uv} 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.

October 3, 2009

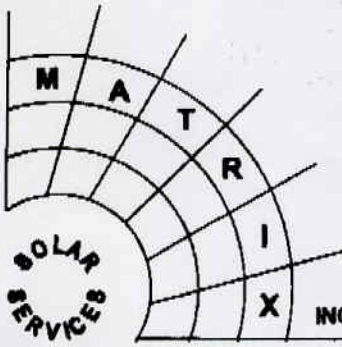
FENESTRATION PROPERTIES FOR TUNG FONG TEXTILES SHADE FABRICS
INTERNAL USE ZERO DEGREE PROFILE ANGLE

<u>Description</u>	<u>Ts</u>	<u>Rs</u>	<u>As</u>	<u>Tv</u>	<u>Tuv</u>	<u>Q-F</u>	<u>SC</u>		
							<u>1/8" Cl.</u>	<u>1/4" Cl.</u>	<u>1/4" H.A.</u>
40X25/250DX250D									
F70-155 White	34	54	12	37	15	15	0.46	0.45	0.38
F70-156 Ivory	34	55	11	34	14	15	0.46	0.45	0.38
F70-157 Stone	27	41	32	28	15	13	0.54	0.52	0.42
F70-160 Pewter	20	7	73	25	15	15	0.75	0.71	0.52
F70-161 Ebony	16	4	80	22	15	15	0.76	0.72	0.52
F70-229 Charcoal/ Bronze	15	4	81	23	14	16	0.76	0.72	0.52
F70-285 Silver	33	15	52	36	14	16	0.73	0.69	0.51

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APPENDIX A

Each Shading Coefficient (S.C.) was determined at the center of the sample, without considering how it is supported on its edges (Center Glass Values). The S.C. is calculated using Pennington and Moore equations and all resulting values must be considered approximate and used for comparison purposes only. If a more exact value is needed, it is recommended that a solar calorimeter test be conducted on each sample at each profile angle.

In making the calculation, it is assumed that the sun strikes the glass at the same profile angle as the profile angle used when the solar transmittance and reflectance of the sample are measured.