



MechoShade ThermoVeil®, EuroVeil®, Equinox™ and EuroTwill™ shade cloths are offered with the broadest Limited Lifetime Warranty available\*; assuring the end-user a product that will provide many years of trouble-free performance.

## ThermoVeil® 3000 Satin & Diamond Twill Weave

### Available Colours

	Front	Back
Pebble 3310		
Alabaster 3010		
Bone 3211		
Parchment 3011		
Stone 3312		
Pewter 3014		
Smoke 3015		
Mushroom 3016		
Charcoal 3017		
Graphite 3018		

### Fabric Specifications

<b>Stock Widths</b>	72, 96"
<b>Openness Factor</b>	1-2%
<b>Composition</b>	15% Polyester Core 85% Vinyl on Polyester
<b>Thickness</b>	.024"
<b>Weight</b>	13.6 oz/sq yrd
<b>Fire Rating</b>	CAN/ULC-S109-M87
<b>Cleaning Instructions</b>	Soap & Water
<b>Spline</b>	Snap Lock
<b>Railroaded</b>	Yes



**Fire Rated**

The 3000, 3200 and 3300 Series are a reversible texture weaves with alternating predominant colour in the warp and fill (front & back). All of the standard 3000, 3200 and 3300 weaves are available in either the satin weave or the diamond weave.

#### Flame Resistant:

ThermoVeil®, EuroVeil®, EuroTwill™ solar shade cloths comply with the NFPA 701-99 Small Scale and Large Scale Vertical Burn Test / California US Title 19 The NY State Combustible Toxicity Performance as measured by the UPITT test for Combustion Product Toxicity (LC50 22.5g) / Complies with the D.O.E. / The Crown Suppliers Specification FR7 using ignition sources 0, 1, 5, and 7 as defined in BS.5852: Parts 1 and 2. — UK. Equinox™ shade cloths comply with the P-NDS04 - 168 Test, Germany / The 2756 - 2000 dated September 22, 2000 NPA 1521/2000 Test, Italy.

#### Bacterial Fungal Resistance (All):

ASTM G-22-76 (reapproved 1996) and ASTM G-21-96 Staphylococcus aureus - Zone of inhibition (mm) / Growth: 8/NGCA. Pseudomonas aeruginosa - ASTM G-22-80 Bacterial Growth: No Growth.

\* If you require additional fabric samples please send an e-mail to: [samples@frasershading.com](mailto:samples@frasershading.com)

\* Actual fabric colours may vary from pictures, Fabric stock levels may vary

\* Openness factors are approximate. Mockups recommended. Specification subject to change without notice. ©Copyright 2008, MechoShade Systems, Inc., Long Island City, NY. All rights reserved. MechoShade, ElectroShade, DualShade, ThermoVeil and EuroVeil are registered trademarks of MechoShade Systems, Inc. EuroTwill; Equinox are trademarks of MechoShade Systems, Inc. Fraser Shading Systems Inc. is an approved Canadian fabricator for MechoShade.



**ThermoVeil® 3000 Series - Approximate Openness Factor: 1-2%**

**Fenestration Properties**

Description	Colour	Ts	Rs	As	Tv	S/C (Blue/Green Glass)			S/C (Clear Glass)			S/C (Bronze Glass)		
						1/4" Single	1/4" Double	1/4" Double Low-E(3)	1/4" Single	1/4" Double	1/4" Double Low-E(3)	1/4" Single	1/4" Double	1/4" Double Low-E(3)
3010 Front	Alabaster	11	63	26	5	0.33	0.27	0.26	0.35	0.33	0.32	0.33	0.27	0.26
3010 Back	Alabaster	11	59	30	5	0.35	0.28	0.27	0.37	0.35	0.33	0.35	0.28	0.27
3011 Front	Parchment	9	58	33	5	0.35	0.28	0.27	0.38	0.35	0.34	0.35	0.28	0.27
3011 Back	Parchment	9	45	46	5	0.40	0.33	0.30	0.47	0.42	0.39	0.40	0.33	0.30
3014 Front	Pewter	2	38	60	1	0.42	0.35	0.31	0.50	0.45	0.41	0.42	0.34	0.31
3014 Back	Pewter	2	31	67	1	0.45	0.37	0.33	0.55	0.48	0.44	0.45	0.36	0.32
3015 Front	Smoke	1	25	74	1	0.47	0.39	0.34	0.59	0.51	0.46	0.47	0.38	0.33
3015 Back	Smoke	1	34	65	1	0.44	0.36	0.32	0.43	0.47	0.42	0.43	0.35	0.31
3016 Front	Mushroom	1	20	79	1	0.49	0.40	0.35	0.62	0.54	0.48	0.49	0.40	0.35
3016 Back	Mushroom	1	17	82	1	0.51	0.41	0.36	0.64	0.56	0.49	0.50	0.41	0.35
3017 Front	Charcoal	1	15	84	1	0.51	0.42	0.36	0.66	0.57	0.50	0.51	0.42	0.36
3017 Back	Charcoal	1	22	77	1	0.48	0.40	0.35	0.61	0.53	0.47	0.48	0.39	0.34
3018 Front	Graphite	1	11	88	1	0.53	0.43	0.37	0.69	0.59	0.51	0.52	0.43	0.36
3018 Back	Graphite	1	10	89	1	0.43	0.44	0.37	0.69	0.59	0.52	0.53	0.43	0.37
3211 Front	Bone	12	71	17	6	0.30	0.24	0.24	0.29	0.28	0.29	0.30	0.24	0.24
3211 Back	Bone	12	71	17	6	0.30	0.24	0.24	0.29	0.28	0.29	0.30	0.24	0.24
3310 Front	Pebble	10	66	24	5	0.32	0.26	0.25	0.32	0.31	0.30	0.32	0.26	0.25
3310 Back	Pebble	10	60	30	5	0.34	0.28	0.26	0.37	0.34	0.33	0.34	0.28	0.26
3312 Front	Stone	4	41	55	2	0.41	0.34	0.30	0.48	0.43	0.40	0.41	0.33	0.30
3312 Back	Stone	4	38	58	2	0.42	0.35	0.31	0.50	0.45	0.41	0.42	0.34	0.31

**KEY:** TS = Solar Transmittance RS = Solar Reflectance AS = Solar Absorption TV = Visible Transmittance S/C = Shading Coefficient

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 the shading system. Darker colours provide maximum glare reduction and visibility. For complete technical information, current test results, performance specifications and larger samples, contact FSS.

**Specifications:**

Composition: 25% Polyester, 75% Polyester on Vinyl

Openness factor: Average 1-2%

Weight: 16.8 oz/sq yrd +/- 5%

Thickness: .03 inches +/- 5%



*MechoShade Systems, Inc.*

ThermoVeil® Satin and Diamond Weave Shadecloth 3000, 3200, and 3300 Series

This product has been GREENGUARD Indoor Air Quality Certified® by the GREENGUARD Environmental Institute under the GREENGUARD for Children & Schools<sup>SM</sup> product certification program.

Certification Details:	
Certification No:	90153-01S
Certification Status:	Certified
Certification Period(s):	06/2009- 06/2009
Certification Restrictions:	NONE

**GREENGUARD Product Emission Standard for Children & Schools**

GREENGUARD Indoor Air Quality Certified Products meet the following minimum emission requirements:

Product Category: Window Treatments	Product Sub Category: Shades
Individual VOCs <sup>1</sup>	< 1/100 TLV and < ½ CA chronic REL
Formaldehyde <sup>2</sup>	< 0.0135 ppm/13.5 ppb
Total VOCs <sup>3</sup>	< 0.22 mg/m <sup>3</sup>
Total Aldehydes <sup>4</sup>	< 0.043 ppm/43 ppb
Total Phthalates <sup>5</sup>	< 0.01 mg/m <sup>3</sup>
Total Particles (< 10µm) <sup>6</sup>	< 0.02 mg/m <sup>3</sup>

<sup>1</sup>Any VOC not listed must produce an air concentration level no greater than 1/100 the Threshold Limit Value (TLV) industrial work place standard (Reference: American Conference of Government Industrial Hygienists, 6500 Glenway, Building D-7, Cincinnati, Ohio 45211-4438) and no greater than 1/2 the CA Chronic Reference Exposure Level (CREL) [http://www.oehha.ca.gov/air/chronic\\_rels/AllChrels.html](http://www.oehha.ca.gov/air/chronic_rels/AllChrels.html) - (CRELs) Adopted by the State of California Office of Environmental Health Hazard Assessment (OEHHA), February 2005).

<sup>2</sup>Formaldehyde criteria established so that emission levels reach 0.014ppm (13.5 ppb) within 14 days of installation (meeting CA 1350 requirements).

<sup>3</sup>Defined to be the total response of measured VOCs falling within the C<sub>6</sub> – C<sub>16</sub> range, with responses calibrated to a toluene surrogate.

<sup>4</sup>Defined to be the total response of a specific target list of aldehydes (2-butenal; acetaldehyde; benzaldehyde; 2, 5-dimethylbenzaldehyde, 2-methylbenzaldehyde; 3-and/or 4-methylbenzaldehyde; butanal; 3-methylbutanal; formaldehyde; hexanal; pentanal; propanal), with each individually calibrated to a compound specific standard.

<sup>5</sup>Total phthalates include dibutyl (DBP), diethylhexyl (DEHD), diethyl (DEP), butylbenzyl (BBP), di-octyl (DOP), and dimethyl (DMP) phthalates.

<sup>6</sup>Particles applicable to fibrous, particle releasing products with exposed surface area.

Complies with California Department of Health Services' "Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers" 2004 (CA section 01350)

GREENGUARD Certification affirms that a product's emissions fall within the limits selected by GREENGUARD from reputable third-party risk based criteria, as identified above. GREENGUARD program testing is conducted consistent with a defined protocol and does not measure emissions under usage conditions other than those defined in the protocol and does not address potential environmental impact other than chemical emissions.

For further product details, visit the product listing at [www.greenguard.org](http://www.greenguard.org). If you have any questions, contact the GREENGUARD Environmental Institute at 1.800.427.9681.



MechoShade Systems, Inc.

ThermoVeil® Satin and Diamond Weave Shadecloth 3000, 3200, and 3300 Series

This product has been GREENGUARD Indoor Air Quality Certified® by the GREENGUARD Environmental Institute under the GREENGUARD Standard for Low Emitting Products.

**Certification Details:**

**Certification No:** 90153-01S  
**Certification Status:** Certified  
**Certification Period(s):** 06/2009- 06/2009  
**Certification Restrictions:**  
NONE

**GREENGUARD Indoor Air Quality Standard for Low Emitting Products**

GREENGUARD Indoor Air Quality Certified Products meet the following minimum emission requirements:

**Category:** Window Treatments

Emission Types	Measure
Individual VOCs	< 01. TLV
Formaldehyde	< 0.05 ppm (< 0.06 mg/m <sup>3</sup> )
Styrene	< 0.07 mg/m <sup>3</sup>
Total VOCs	< 0.5 mg/m <sup>3</sup>
Total aldehydes	< 0.1 ppm

Listing of measured carcinogens and reproductive toxins as identified by California Proposition 65, the U.S. National Toxicology Program (NTP), and the International Agency on Research on Cancer (IARC) must be provided.

Any pollutant not listed must produce an air concentration level no greater than 1/10 the Threshold Limit Value (TLV) industrial work place standard (Reference: American Conference of Government Industrial Hygienists, 6500 Glenway, Building D-7, Cincinnati, Ohio 45211-4438.

Any pollutant regulated as a primary or secondary outdoor air pollutant must meet a concentration that will not generate an air concentration greater than that promulgated by the National Ambient Air Quality Standard (U.S. EPA, code of Federal Regulations, Title 40, Part 50).

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