MERMET
Sun Control Textiles™

Product Specifications Sheet

GreenScreen® Evolve™ 1%

Specifications

Product Category:	Sustainable	**Composition:**	100% polyester / 78% recycled content
Openness Factor:	1%	**Standard Packaging:**	Rolls of 50 ly (46 lm)
UV Blockage:	Approximately 99%	**Width:**	118" (300 cm)
Fabric Style:	Warp Knit	**Weight:**	8.97 oz / yd2 (304 g / m2) ± 5%
Item #:	003501	**Thickness:**	.029" (0.73 mm) ± 5%

Fenestration Data

		Fabric Properties					Fabric & Glass	
		Thermal			*Optical*		*Commercial*	*Residential*
Color#	Color Name	Total Solar			Rv (%)	Tv (%)	SHGC % Improvement	SHGC
		Rs (%)	As (%)	Ts (%)				
00QS39	Cloud	66	8	26	68	25	50	0.33
00QS23	Light	65	9	26	67	25	50	0.34
00QS38	Natural	63	14	23	63	21	47	0.34
00QS35	Haze	62	17	21	59	17	45	0.35
00QS22	Shale	56	25	19	49	19	37	0.39
00QS21	Shadow	52	30	18	41	10	34	0.41
00QS37	Wind	62	16	22	61	19	45	0.35
00QS19	Rain	52	31	17	40	10	34	0.41
00QS26	Storm	42	43	15	21	5	24	0.47

The fabric performance tests were conducted in accordance with ASTM E891 & ASTM E903-96: Total Solar Transmittance (Ts), Total Solar Reflectance (Rs), Total Solar Absorptance (As), Visible Reflectance (Rv), and Visible Transmission (Tv). Glass performance tests for Solar Heat Gain Coefficient (SHGC) were conducted using the Lawrence Berkeley National Laboratory Window 7.3 NFRC certified software. SHGC % improvement for commercial applications is based on a standard commercial glass makeup of Double Glazing 6 mm / ½" air / 6 mm with low E on surface #2. SHGC for residential applications is based on a default residential glass makeup of 3mm clear glass / 1/2" air / 3mm clear glass. Results for SHGC were obtained using the center of glass. Acoustical performance was tested in accordance with ASTM C423-09a: NRC is Noise Reduction Coefficient, SAA is Sound Absorption Average. For up-to-date test results, performance specifications and larger samples, contact the Mermet Technical Department at: www.mermetusa.com.

Fabrication Methods:
Cutting: cold, ultrasonic or crush
Welding: radio frequency, high frequency, impulse, hot air, wedge. May require the use of welding tape. Please contact Mermet for more information regarding our welding tape product line.

Fire Classifications:
NFPA 701-10 TM#1, California U.S. Title 19

Bacterial and Fungal Resistance:
ASTM E2180, ASTM G21

Environmental Benefits:
RoHS - Lead Free

Acoustical Performance:
NRC: 0.20, SAA: 0.20

We recommend testing all cutting and welding methods prior to use to confirm they meet your individual fabrication specifications.

Care & Handling

Regular light dusting with a feather duster is suggested. A hand-held vacuum with low suction may also be used. When vacuuming, avoid pulling or stretching the fabric. Rigorous vacuuming is not recommended since this could distort the fabric. Alternatively, dirt and debris can be blown away using compressed air or hand-held air dryer on the cool setting. Alternatively, a dry chemical sponge may also be used for spot cleaning.

5970 N. Main Street • Cowpens, SC 29330
Sales Department: Ph (866) 902-9647
info@mermetusa.com

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Sun Control Textiles™

Product Specifications Sheet

GreenScreen® Evolve™ 3%

Specifications

Product Category:	Sustainable	**Composition:**	100% polyester / 67% recycled content
Openness Factor:	3%	**Standard Packaging:**	Rolls of 50 ly (46 lm)
UV Blockage:	Approximately 97%	**Width:**	118" (300 cm)
Fabric Style:	Warp Knit	**Weight:**	8.41 oz / yd2 (285 g / m2) ± 5%
Item #:	003503	**Thickness:**	.027" (0.68 mm) ± 5%

Fenestration Data

		Fabric Properties					Fabric & Glass	
		Thermal			*Optical*		*Commercial*	*Residential*
Color#	Color Name	Total Solar			Rv (%)	Tv (%)	SHGC % Improvement	SHGC
		Rs (%)	As (%)	Ts (%)				
00QS39	Cloud	65	7	28	67	28	47	0.35
00QS23	Light	62	9	29	64	28	45	0.37
00QS38	Natural	60	12	28	60	26	42	0.38
00QS35	Haze	59	15	26	57	23	42	0.39
00QS22	Shale	53	22	25	47	19	34	0.42
00QS21	Shadow	51	30	19	41	12	32	0.43
00QS37	Wind	60	14	26	60	23	42	0.38
00QS19	Rain	50	29	21	40	13	32	0.43
00QS26	Storm	40	42	18	20	8	21	0.49

The fabric performance tests were conducted in accordance with ASTM E891 & ASTM E903-96: Total Solar Transmittance (Ts), Total Solar Reflectance (Rs), Total Solar Absorptance (As), Visible Reflectance (Rv), and Visible Transmission (Tv). Glass performance tests for Solar Heat Gain Coefficient (SHGC) were conducted using the Lawrence Berkeley National Laboratory Window 7.3 NFRC certified software. SHGC % improvement for commercial applications is based on a standard commercial glass makeup of Double Glazing 6 mm / ½" air / 6 mm with low E on surface #2. SHGC for residential applications is based on a default residential glass makeup of 3mm clear glass / 1/2" air / 3mm clear glass. Results for SHGC were obtained using the center of glass. Acoustical performance was tested in accordance with ASTM C423-09a: NRC is Noise Reduction Coefficient, SAA is Sound Absorption Average. For up-to-date test results, performance specifications and larger samples, contact the Mermet Technical Department at: www.mermetusa.com.

Fabrication Methods:

Cutting: cold, ultrasonic or crush

Welding: radio frequency, high frequency, impulse, hot air, wedge. May require the use of welding tape. Please contact Mermet for more information regarding our welding tape product line.

Fire Classifications:

NFPA 701-10 TM#1, California U.S. Title 19

Bacterial and Fungal Resistance:

ASTM E2180, ASTM G21

Environmental Benefits:

RoHS - Lead Free

Acoustical Performance:

NRC: 0.15, SAA: 0.16

We recommend testing all cutting and welding methods prior to use to confirm they meet your individual fabrication specifications.

Care & Handling

Regular light dusting with a feather duster is suggested. A hand-held vacuum with low suction may also be used. When vacuuming, avoid pulling or stretching the fabric. Rigorous vacuuming is not recommended since this could distort the fabric. Alternatively, dirt and debris can be blown away using compressed air or hand-held air dryer on the cool setting. Alternatively, a dry chemical sponge may also be used for spot cleaning.

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Product Specifications Sheet

GreenScreen® Evolve™ 5%

Specifications

Product Category:	Sustainable	**Composition:**	100% polyester / 70% recycled content
Openness Factor:	5%	**Standard Packaging:**	Rolls of 50 ly (46 lm)
UV Blockage:	Approximately 95%	**Width:**	118" (300 cm)
Fabric Style:	Warp Knit	**Weight:**	7.93 oz / yd2 (269 g / m2) ± 5%
Item #:	003505	**Thickness:**	.026" (0.67 mm) ± 5%

Fenestration Data

		Fabric Properties					Fabric & Glass	
		Thermal			*Optical*		*Commercial*	*Residential*
Color#	Color Name	Total Solar			Rv (%)	Tv (%)	SHGC % Improvement	SHGC
		Rs (%)	As (%)	Ts (%)				
00QS39	Cloud	60	8	32	63	32	45	0.39
00QS23	Light	59	10	31	62	30	42	0.39
00QS38	Natural	57	13	30	58	28	39	0.40
00QS35	Haze	56	15	29	54	26	39	0.41
00QS22	Shale	51	22	27	46	22	34	0.44
00QS21	Shadow	46	29	25	36	18	29	0.47
00QS37	Wind	56	13	31	55	28	39	0.41
00QS19	Rain	48	28	24	38	16	29	0.45
00QS26	Storm	38	41	21	38	11	29	0.48

The fabric performance tests were conducted in accordance with ASTM E891 & ASTM E903-96: Total Solar Transmittance (Ts), Total Solar Reflectance (Rs), Total Solar Absorptance (As), Visible Reflectance (Rv), and Visible Transmission (Tv). Glass performance tests for Solar Heat Gain Coefficient (SHGC) were conducted using the Lawrence Berkeley National Laboratory Window 7.3 NFRC certified software. SHGC % improvement for commercial applications is based on a standard commercial glass makeup of Double Glazing 6 mm / ½" air / 6 mm with low E on surface #2. SHGC for residential applications is based on a default residential glass makeup of 3mm clear glass / 1/2" air / 3mm clear glass. Results for SHGC were obtained using the center of glass. For up-to-date test results, performance specifications and larger samples, contact the Mermet Technical Department at: www.mermetusa.com.

Fabrication Methods:

Cutting: cold, ultrasonic or crush

Welding: radio frequency, high frequency, impulse, hot air, wedge. May require the use of welding tape. Please contact Mermet for more information regarding our welding tape product line.

Fire Classifications:

NFPA 701-10 TM#1, California U.S. Title 19

Bacterial and Fungal Resistance:

ASTM E2180, ASTM G21

Environmental Benefits:

RoHS - Lead Free

We recommend testing all cutting and welding methods prior to use to confirm they meet your individual fabrication specifications.

Care & Handling

Regular light dusting with a feather duster is suggested. A hand-held vacuum with low suction may also be used. When vacuuming, avoid pulling or stretching the fabric. Rigorous vacuuming is not recommended since this could distort the fabric. Alternatively, dirt and debris can be blown away using compressed air or hand-held air dryer on the cool setting. Alternatively, a dry chemical sponge may also be used for spot cleaning.

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MERMET
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Product Specifications Sheet

GreenScreen® Evolve™ 10%

Specifications

Product Category:	Sustainable	**Composition:**	100% polyester / 72% recycled content
Openness Factor:	10%	**Standard Packaging:**	Rolls of 50 ly (46 lm)
UV Blockage:	Approximately 90%	**Width:**	118" (300 cm)
Fabric Style:	Warp Knit	**Weight:**	5.69 oz / yd2 (193 g / m2) ± 5%
Item #:	003510	**Thickness:**	.023" (0.59 mm) ± 5%

Fenestration Data

		Fabric Properties					Fabric & Glass	
		Thermal			*Optical*		*Commercial*	*Residential*
Color#	Color Name	Total Solar			Rv (%)	Tv (%)	SHGC % Improvement	SHGC
		Rs (%)	As (%)	Ts (%)				
00QS39	Cloud	57	5	38	58	38	39	0.42
00QS23	Light	55	7	38	56	38	37	0.43
00QS38	Natural	54	9	37	54	35	37	0.44
00QS35	Haze	52	12	36	51	34	34	0.45
00QS22	Shale	49	17	34	45	29	32	0.47
00QS21	Shadow	44	24	32	36	25	26	0.49
00QS37	Wind	53	11	36	52	33	34	0.44
00QS19	Rain	45	24	31	45	25	32	0.47
00QS26	Storm	35	37	28	18	17	16	0.55

The fabric performance tests were conducted in accordance with ASTM E891 & ASTM E903-96: Total Solar Transmittance (Ts), Total Solar Reflectance (Rs), Total Solar Absorptance (As), Visible Reflectance (Rv), and Visible Transmission (Tv). Glass performance tests for Solar Heat Gain Coefficient (SHGC) were conducted using the Lawrence Berkeley National Laboratory Window 7.3 NFRC certified software. SHGC % improvement for commercial applications is based on a standard commercial glass makeup of Double Glazing 6 mm / ½" air / 6 mm with low E on surface #2. SHGC for residential applications is based on a default residential glass makeup of 3mm clear glass / 1/2" air / 3mm clear glass. Results for SHGC were obtained using the center of glass. For up-to-date test results, performance specifications and larger samples, contact the Mermet Technical Department at: www.mermetusa.com.

Fabrication Methods:

Cutting: cold, ultrasonic or crush

Welding: radio frequency, high frequency, impulse, hot air, wedge. May require the use of welding tape. Please contact Mermet for more information regarding our welding tape product line.

Fire Classifications:

NFPA 701-10 TM#1, California U.S. Title 19

Bacterial and Fungal Resistance:

ASTM E2180, ASTM G21

Environmental Benefits:

RoHS - Lead Free

We recommend testing all cutting and welding methods prior to use to confirm they meet your individual fabrication specifications.

Care & Handling

Regular light dusting with a feather duster is suggested. A hand-held vacuum with low suction may also be used. When vacuuming, avoid pulling or stretching the fabric. Rigorous vacuuming is not recommended since this could distort the fabric. Alternatively, dirt and debris can be blown away using compressed air or hand-held air dryer on the cool setting. Alternatively, a dry chemical sponge may also be used for spot cleaning.

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