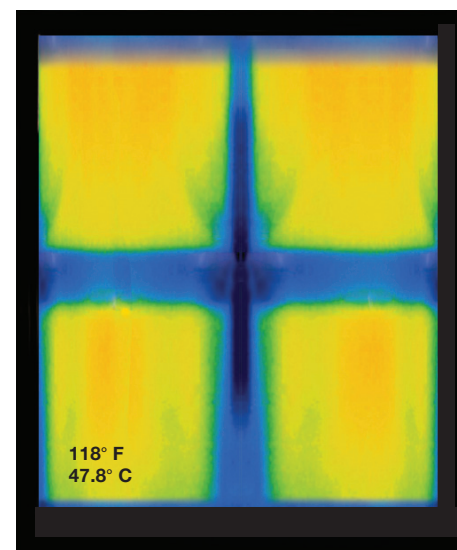
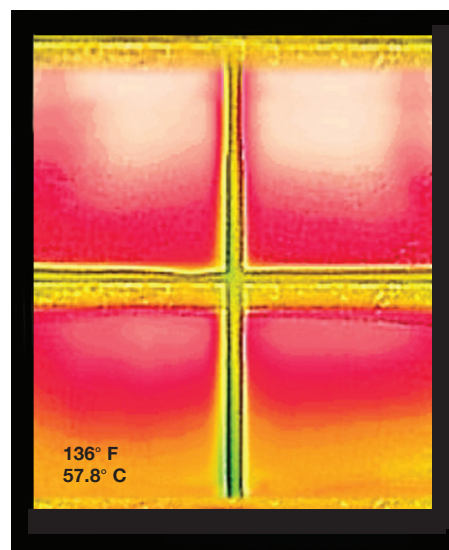


Reduced Cooling Costs & Improved Comfort

With the glare control and view-through benefits of dark fabrics

KOOLBLACK® Technology eliminates the trade-offs between aesthetics and performance by incorporating near-infrared, heat reflective properties into dark color screen fabrics. This feature, coupled with the other benefits of dark colored fabrics, provides excellent contrast for a clear view through, uniformed exterior building design, maximized energy savings and optimized occupant comfort.



Standard Dark Screen Fabrics

- high contrast for clear & sharp view through
- coordinated exterior building design
- exceptional glare control

E Screen™ with KOOLBLACK® Technology

- same great features as standard dark screen fabrics
- improved near-infrared reflectance of 64% in comparison to 3% for conventional charcoal/charcoal fabric
- excellent acoustic absorption with an NRC up to 0.45
- improved heat control and energy savings

Total Screen Benefits

Only E Screen™ with KOOLBLACK® Technology can achieve all screen benefits

- increased IR reflectance = less re-radiated heat = lower cooling costs & enhanced occupant comfort
- superior view through and glare control
- coordinated exterior building design and aesthetics when incorporated with glazing



Sun Control Textiles™

More information on Mermet's full line of KOOLBLACK® Technology fabrics, E Screen™ with KOOLBLACK® Technology and T Screen with KOOLBLACK® Technology, can be found at www.mermetusa.com.



E Screen™

High Performance | 1% 3% 5% openness

WITH KOOLBLACK™ TECHNOLOGY

Specifications

Item Number	E Screen™ with KOOLBLACK	E Screen™ Original
Product Category	High Performance	Conventional
Fabric Style	Basketweave	Basketweave
Openness Factor	1%, 3%, & 5%	1%, 3%, & 5%
Composition	36% Fiberglass 64% Vinyl	36% Fiberglass 64% Vinyl
UV Blockage	Approximately 95% - 99%	Approximately 95% - 99%
Standard Packaging	Rolls of 30 ly (27 lm)	Rolls of 30 ly (27 lm)
Width	98 in (250 cm), 122 in (310 cm)	78 in (200 cm), 98 in (250 cm), 122 in (310 cm)
Weight	1%: 12.95 oz/yd² (439 g/m²) ±5% 3%: 11.3 oz/yd² (382 g/m²) ±5% 5%: 10.6 oz/yd² (358 g/m²) ±5%	1%: 13.3 oz/yd² (452 g/m²) ±5% 3%: 11.6 oz/yd² (393 g/m²) ±5% 5%: 10.7 oz/yd² (363 g/m²) ±5%
Thickness	1%: 0.021 in (0.53 mm) ±5% 3%: 0.020 in (0.51 mm) ±5% 5%: 0.019 in (0.47 mm) ±5%	1%: 0.020 in (0.52 mm) ±5% 3%: 0.017 in (0.43 mm) ±5% 5%: 0.016 in (0.41 mm) ±5%

Classifications

Fire Classifications	E Screen™ with KOOLBLACK	E Screen™ Original
Bacterial Resistance	ASTM E2180, ASTM G21	ASTM E2180, ASTM G21
Environment	RoHS - Lead Free, GREENGUARD Gold	RoHS - Lead Free, GREENGUARD Gold
Acoustic	1%: NRC 0.45, SAA: 0.46 3%: NRC 0.15, SAA: 0.17 5%: NRC 0.10, SAA: 0.12	1%: NRC 0.50, SAA: 0.50 3%: NRC 0.15, SAA: 0.17 5%: NRC 0.10, SAA: 0.12

Fabrication

Cutting: Cold, Ultrasonic or Crush | **Welding:** Radio Frequency, High Frequency, Impulse, Hot Air or Wedge
We recommend testing all cutting and welding methods prior to use to confirm they meet your individual fabric specifications.

E Screen™ WITH KOOLBLACK™ TECHNOLOGY

ITEM	COLOR
035035	Charcoal/Charcoal
00K122	Charcoal/Grey-Stone
035131	Charcoal/Grey
035032	Charcoal/Cocoa
035071	Charcoal/Apricot

E Screen™ Original

ITEM	COLOR
030030	Charcoal/Charcoal
00M122	Charcoal/Grey-Stone
030001	Charcoal/Grey
030061	Charcoal/Cocoa
030071	Charcoal/Apricot

Warranty

Care & Handling

Mermet Corporation
5970 N. Main Street ■ Cowpens, SC 29330
Ph 1.866.902.9647 ■ info@mermetusa.com

mermetusa.com

Rs IR %	FABRIC						FABRIC + GLASS					
	thermal			optical			SHGC % Improvement					
	Rs %	As %	Ts %	Rv %	Tv %							
1 3 5	1 3 5	1 3 5	1 3 5	1 3 5	1 3 5	1 3 5	1 3 5	1 3 5	1 3 5	1 3 5	1 3 5	
64 61 60	35 34 33	53 49 49	12 17 18	9 10 10	2 6 6	18 16 16						
63 60 58	38 38 36	50 46 45	12 16 19	17 19 18	3 7 9	24 24 21						
67 65 62	40 40 38	49 46 45	11 14 17	16 18 17	2 5 7	24 24 21						
64 61 57	36 35 32	52 48 49	12 17 19	11 12 11	2 6 7	21 16 16						
62 58 59	39 38 37	47 44 42	14 18 21	19 22 19	3 6 9	24 21 18						
3 5 6	4 5 6	95 91 90	1 4 4	4 5 5	1 4 4	13 13 13						
11 13 11	11 13 12	87 80 79	2 7 9	11 13 12	2 6 9	18 18 18						
9 11 11	9 10 10	88 85 83	3 5 7	8 10 10	2 5 7	16 16 16						
5 7 6	5 7 6	93 89 87	2 4 7	5 7 6	2 3 7	16 13 13						
13 18 15	13 18 15	86 75 78	1 7 7	14 18 16	1 7 6	18 18 18						

5 Year Exterior & 10 Year Interior

Remove dust with vacuum cleaner or compressed air. Do not scrub. Do not use solvents or any abrasive substance which might damage the coating of the fabric. Clean with a sponge or a soft brush dipped in soapy water using mild detergent. Rinse with clean water. Leave the blind down until completely dry. You can also very gently rub the fabric with a clean white pencil eraser to remove small stains.

The fabric performance tests were conducted in accordance with ASTM E891 & ASTM E903-96: Total Solar Transmittance (Ts), Total Solar Reflectance (Rt), Solar Reflectance in Infrared (Ris IR), Total Solar Absorbance (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 / 1/8" air / 6 mm with low E on surface #2. 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 residential SHGC data and the most up-to-date test results, performance specifications, and larger samples, contact the Mermet Technical Department: www.mermetusa.com



Sun Control Textiles™



Perfect Commercial Solution

A combination of E Screen™ with KOOLBLACK® Technology & E Screen™ Original

where	Southern & Western Exposures	where	Northern & Eastern Exposures
what	E Screen™ with KOOLBLACK® Technology	what	E Screen™ Original
why	Improved Comfort & Energy Savings	why	Value Offering & Seamless Coordination

The combination of E Screen™ with KOOLBLACK® Technology and E Screen™ Original, in coordinating colors, achieves a seamless exterior design appearance and cost savings solution for commercial applications.

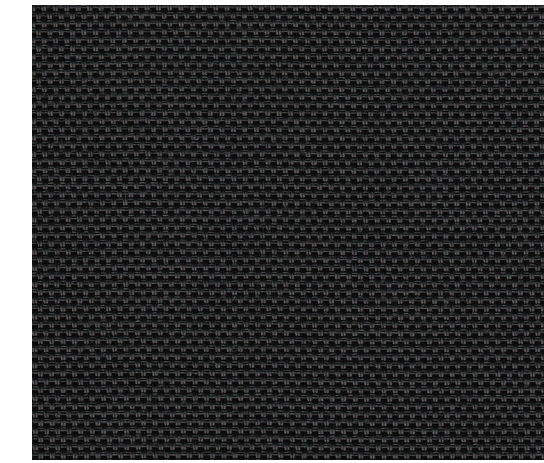
Benefits of dark screens with KOOLBLACK® Technology

- excellent glare control
- crisp, clear view to the outside
- coordinated exterior building design
- reflects NIR solar energy
- improved comfort
- energy savings

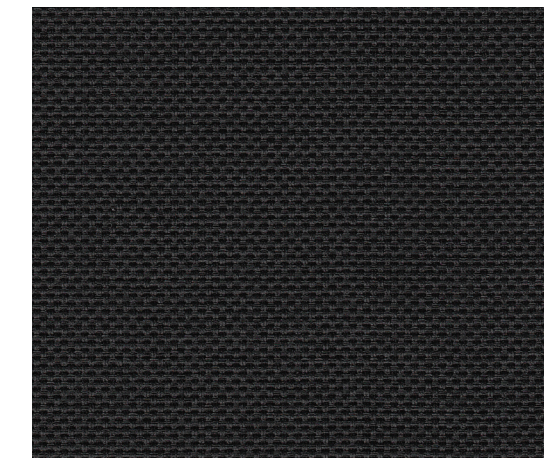


Benefits of standard dark screen fabrics

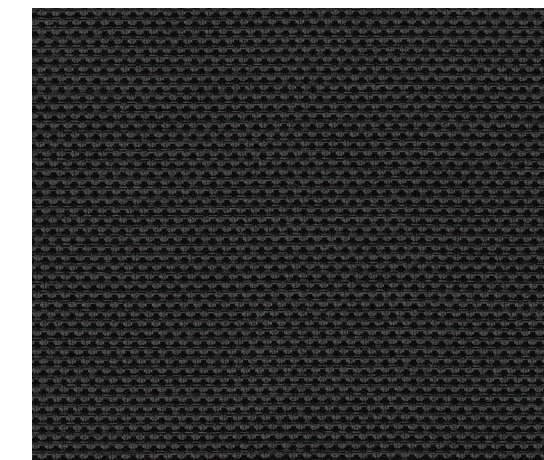
- excellent glare control
- crisp, clear view to the outside
- coordinated exterior building design



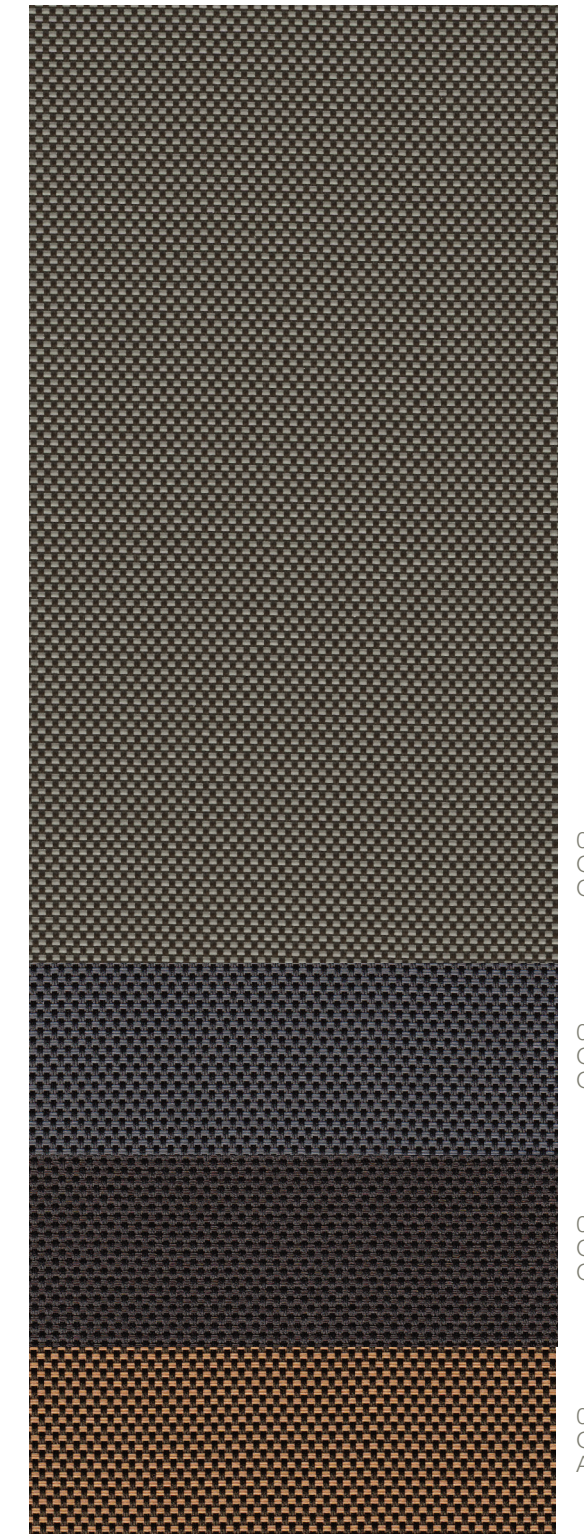
1% 030030 | Charcoal/Charcoal



3% 030030 | Charcoal/Charcoal



5% 030030 | Charcoal/Charcoal

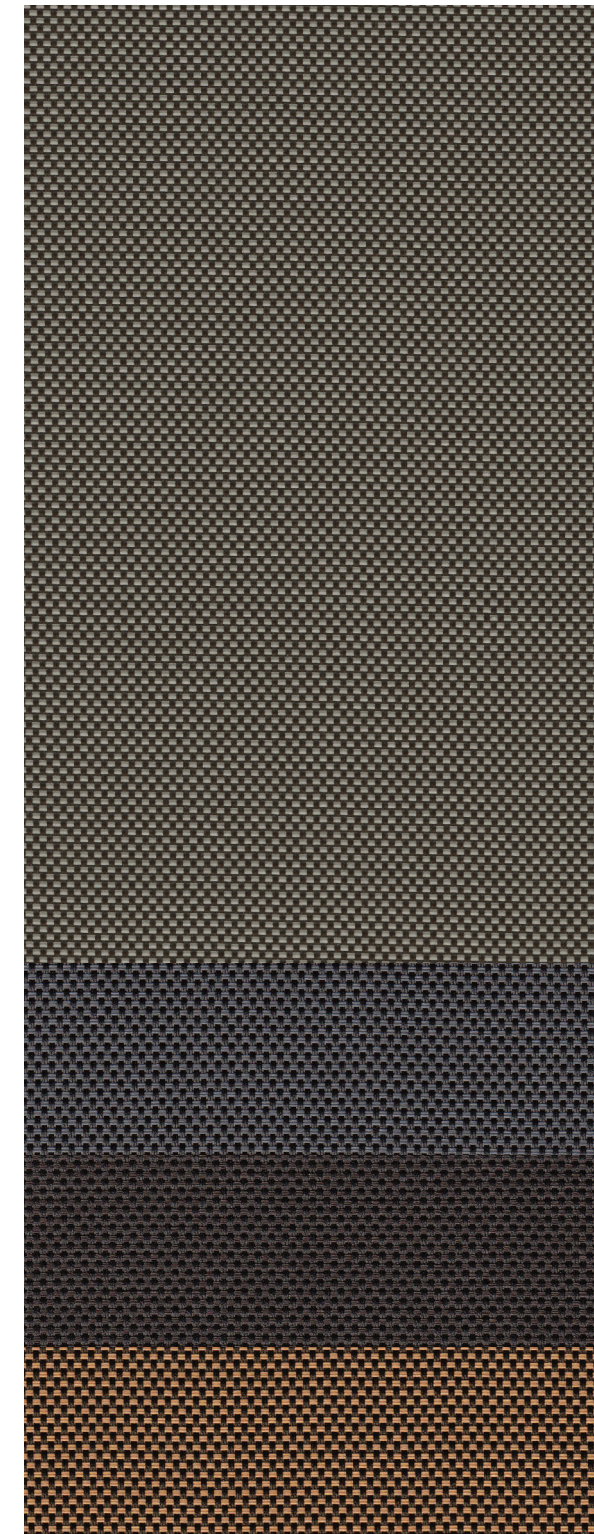


00M122 Charcoal/Grey-Stone

030001 Charcoal/Grey

030061 Charcoal/Cocoa

030071 Charcoal/Apricot

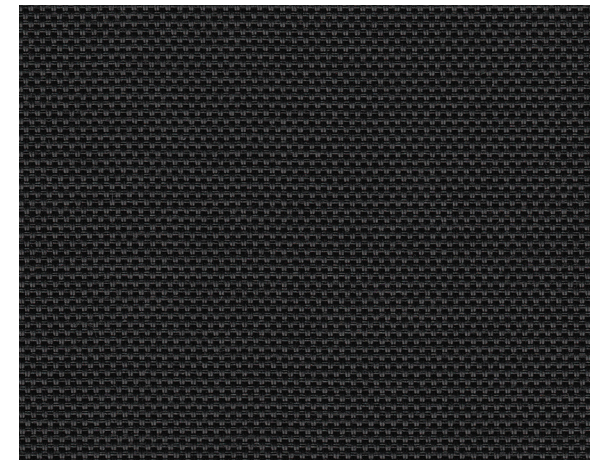


00K122 Charcoal/Grey-Stone

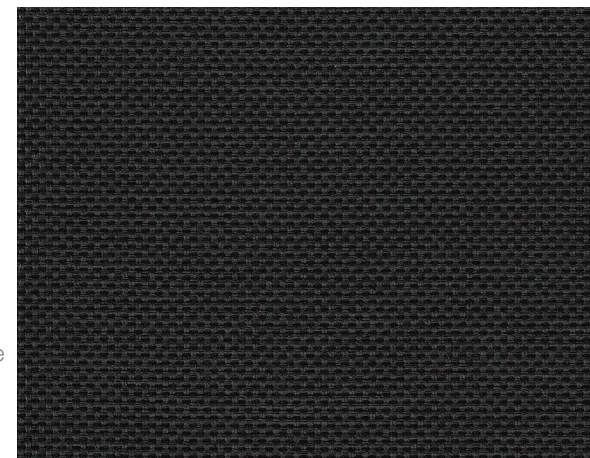
035131 Charcoal/Grey

035032 Charcoal/Cocoa

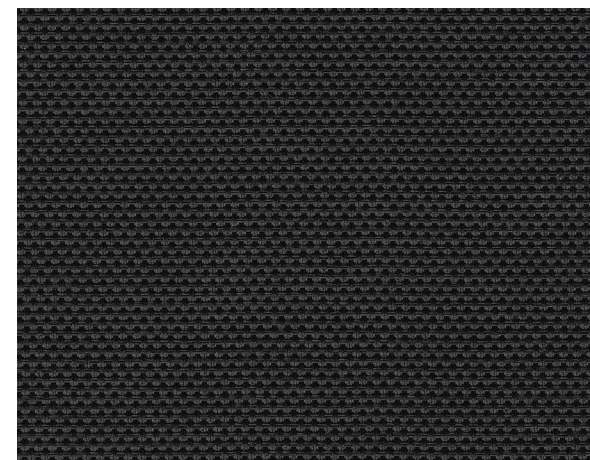
035071 Charcoal/Apricot



1% 035035 | Charcoal/Charcoal



3% 035035 | Charcoal/Charcoal



5% 035035 | Charcoal/Charcoal