

# GREENSCREEN EVOLVE® 3%

Professional Architectural Specification

## AVAILABLE COLORWAYS

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Cloud

Haze

Light

Natural

Rain

Shadow

Shale

Storm

Wind

## TECHNICAL SPECIFICATIONS

### DESCRIPTION

The **GreenScreen Evolve® 3%** is a next-generation sustainable solar screen fabric engineered for interior roller shade applications where environmental responsibility and solar performance go hand in hand. Made from **100% polyester with 78% recycled content**, it is one of the most sustainable options in the Mermet portfolio — carrying both a **Cradle to Cradle Bronze** certification and a **Declare Label**, making it ideal for LEED, Living Building Challenge, and other green building specifications.

The **warp knit construction** at **3% openness** delivers approximately **97% UV blockage** while maintaining meaningful outward visibility. Available in 9 nature-inspired colorways — from deep Storm and Rain to soft Natural, Light, and Cloud — the palette is designed to complement a wide range of interior environments.

GreenScreen Evolve® meets **NFPA 701 TM#1, California U.S. Title 19, and CAN/ULC-S109** fire classifications. It is **GREENGUARD Gold** certified, **RoHS compliant (Lead-Free), Antimony-Free FR, and Halogen-Free FR**. Bacterial and fungal resistance tested per **ASTM E2180 and ASTM G21**. Backed by a **5-Year Interior Warranty**.

### Fenestration Data — GreenScreen Evolve® 3%

All testing conducted per **ASTM G173 & ASTM E903**. SHGC values derived using Lawrence Berkeley National Laboratory WINDOW NFRC certified software.

Color Name	Thermal – Total Solar			Rv (%)	Tv (%)	SHGC % Improvement (Commercial)	SHGC (Residential)
	Rs (%)	As (%)	Ts (%)				
Wind	62	17	21	61	19	47	0.34
Storm	41	45	14	19	5	24	0.46
Rain	51	31	18	38	11	34	0.41
Shadow	47	32	21	35	14	32	0.43
Shale	54	25	21	46	16	37	0.39
Haze	61	17	22	58	19	45	0.35
Natural	63	14	23	63	22	47	0.34
Light	66	11	23	68	23	50	0.32
Cloud	69	8	23	71	23	53	0.30

Fabric properties may vary due to standard manufacturing variations. Testing conducted per ASTM G173 & ASTM E903. SHGC commercial basis: Double Glazing 6mm / ½" air / 6mm with low-E on surface #2. SHGC residential basis: 3mm clear / ½" air / 3mm clear glass (center of glass). Acoustical performance per ASTM C423.

### KEY CHARACTERISTICS

- **3% Openness** – High solar control with meaningful outward visibility
- **~97% UV Blockage** – Strong protection for interiors and occupants
- **78% Recycled Content** – One of the most sustainable fabrics in the portfolio
- **Cradle to Cradle Bronze** – Lifecycle sustainability certification
- **Declare Label** – Full material transparency; supports Living Building Challenge
- **GREENGUARD Gold Certified** – Suitable for schools and healthcare
- **Antimony-Free & Halogen-Free FR** – Healthier flame-retardant chemistry
- **Warp Knit Construction** – Lightweight at 8.85 oz/yd<sup>2</sup> with excellent dimensional stability
- **9 Nature-Inspired Colorways** – From Storm and Rain to Natural, Light, and Cloud

- ? **Wide Format** – Available in 118" (300 cm) width
- ? **5-Year Interior Warranty**

## TECHNICAL DATA

Test / Standard	Result / Classification
Fire Classification (USA)	NFPA 701 TM#1; California U.S. Title 19
Fire Classification (Canada)	CAN/ULC-S109
Bacterial & Fungal Resistance	ASTM E2180; ASTM G21
Indoor Air Quality	GREENGUARD Gold Certified
Environmental	RoHS Compliant (Lead-Free); Antimony-Free FR; Halogen-Free FR
Sustainability	Cradle to Cradle Certified – Bronze; Declare Label
Recycled Content	78% Recycled Content (100% Polyester)
Acoustical Performance (NRC)	0.20
Acoustical Performance (SAA)	0.21
Cutting Methods	Crush, Cold, or Ultrasonic
Welding Methods	Radio Frequency, Impulse, Hot Air, Wedge
Welding	Mermet 103218 Tape recommended; 250–275°F; 5–10 sec
Solar Fenestration Testing	ASTM G173 & ASTM E903

## TECHNICAL SPECS

*Information for this section is coming soon. Please contact us to request this data.*

## CARE & HANDLING

- Regular light dusting with a feather duster is recommended.
- A hand-held vacuum with low suction may also be used. When vacuuming, avoid pulling or stretching the fabric — rigorous vacuuming is not recommended as it may distort the weave.
- Alternatively, dirt and debris can be removed using compressed air or a hand-held air dryer on the cool setting.
- A dry chemical sponge may be used for spot cleaning.
- For tougher stains and disinfecting instructions, visit [MermetUSA.com](https://www.MermetUSA.com).
- **Handling:** Support the full width of the roll to prevent uneven weight distribution and fabric deformation.