

# Clear Vision™

## CV External

Normal screen white

Clear Vision External white



Refuse Vague Attitude, Bring New High-Definition Attitude.

HANDE Launched Clear Vision™ Series Sunscreen.



*By HanDe*



# Product Certificate

<b>Fire, Smoke Classification</b>	FR (US) - NFPA 701 TM#1 B1 (CN) - GB17591	BS (GB) - 5867 Part2 TypeB B1 (DE) - DIN4102	M1 (F) - NF P 92-507
<b>Health &amp; Safety</b>	Oeko-tex Standard 100 class IV RoHS Directive (EU)2015/863 AATCC112-2014	Greenguard® Gold EN71 Part 3:1994 GB18586 - 2001	MIF Certificate
<b>Bacterial &amp; Fungal Resistance</b>	ASTM G21-15 ASTM E 2180-07	0 Grade Reduce more than 99.9% of bacteria	None fungi growth
<b>Colour fastness to light</b>	Grade 8 ≥4.0	ISO105 B02:2014 AATCC TM 16.3-2014; Option 3; Xenon Arc Lamp	
<b>Warranty</b>	5 Years		



## Technical Data

### STYLE

### CVE05

<b>Composition</b>	25% Polyester – 75% PVC	
<b>Openness Factor</b>	≈ 5%	
<b>UV Screen</b>	Up to 95%	
<b>Width</b>	inch	98" – 118"
	cm	250 – 300
<b>Weight</b>	oz/yd <sup>2</sup>	17.64 ± 5%
(ISO 2286–2)	g/m <sup>2</sup>	600 ± 5%
<b>Thickness</b>	inch	0.030 ± 5%
(ISO 2286–3)	mm	0.76 ± 5%

### MECHANICAL RESISTANCE

<b>Breaking</b>	Warp	≥ 2640 N/5cm
(ISO 13934–1)	Weft	≥ 2060 N/5cm
<b>Tear</b>	Warp	≥ 230 N
(ISO 4674)	Weft	≥ 210 N
<b>Packing</b>	32.8 yards	
(Roll Length)	30 lm	

## Thermal and Optical Factors

Color	Fabric Properties					Fabric & Glass		Recommended Comfort Classification				
	Thermal			Optical		SHGC % Improvement	SHGC	Thermal Control	Visual			
	Ts	Rs	As	Rv	Tv				Daylight Utilization	Glare Control	Night Privacy	Outward Visibility
0101 White*White	7	74	19	82	7	68%	0.14	3	1	2	1	3
0104 White*Black	7	36	57	40	7	48%	0.27	2	1	2	1	3
0105 White*Grey	7	50	43	55	7	55%	0.23	2	1	2	1	3
0107 White*Sand	7	52	41	56	7	56%	0.22	2	1	2	1	3
0207 Stucco	7	60	33	65	7	60%	0.20	2	1	2	1	3
0403 Black*Pearl	8	16	76	18	8	20%	0.35	1	1	1	1	3
0404 Black*Black	7	3	90	3	7	13%	0.38	1	1	1	1	3
0405 Black*Grey	6	11	83	10	6	16%	0.36	1	1	1	1	3
0406 Black*Bronze	7	6	87	6	7	14%	0.37	1	1	1	1	3

Ts (Solar transmittance): Proportion of solar energy transmitted through the fabric.

Rs (Solar reflectance): Proportion of solar radiation reflected by the fabric.

As (Solar absorptance): Proportion of solar radiation absorbed by the fabric.

Tv (Visible light transmittance): Total percentage of light radiation through the fabric over a wavelength of 380 to 780 nm.

Rv (visible light reflectance): Total percentage of light radiation reflected by the fabric over a wavelength of 380 to 780 nm.

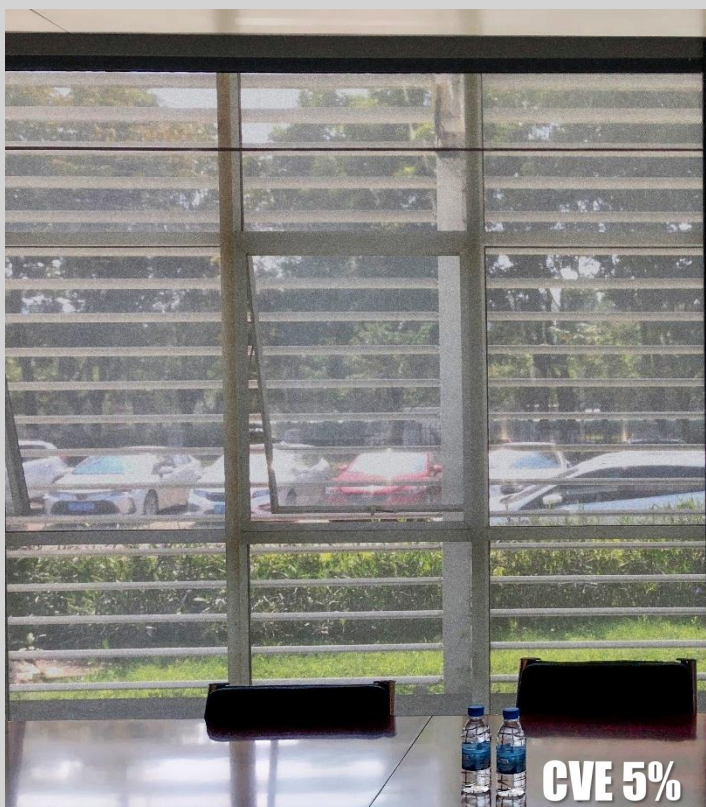
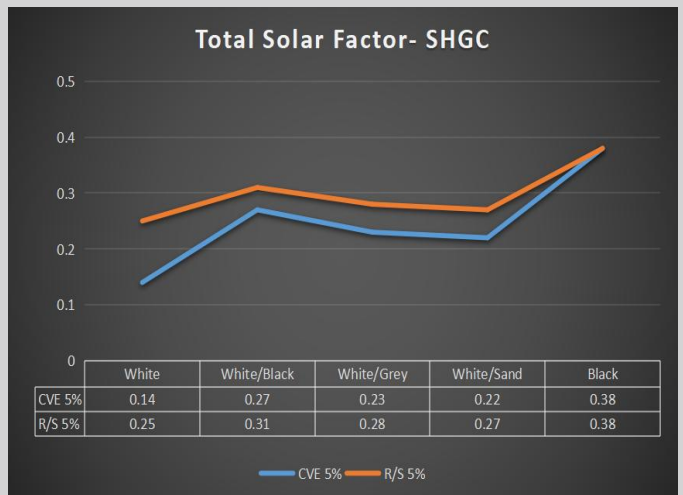
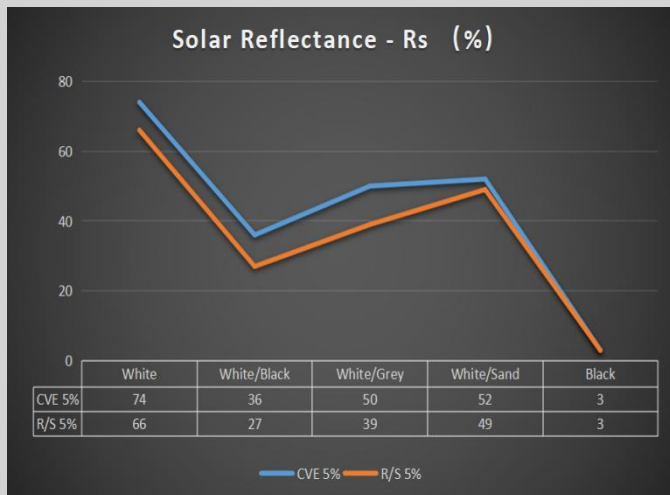
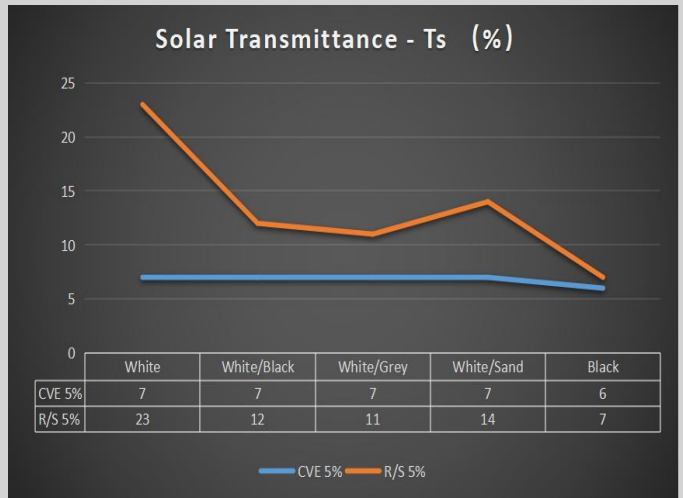
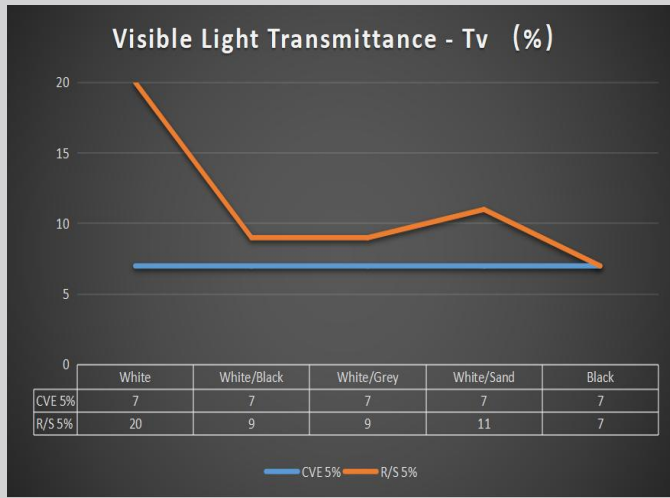
SHGC (Total solar factor): Solar energy which actually penetrates into a room through the blind and glazing. A low value means good thermal performance.

Comfort Classification According to EN14501 : 0. Very little effect    1. Little effect    2. Moderate effect    3. Good effect    4. Very good effect

# Solar Comparison Data

From comparison of Optical and thermal factor, Clear Vision External White will reflect more solar heat (Rs=74, Black Rs=3), and also can achieve the same effect of glare control as black fabric (Tv=7, Black Tv=7), it solves the problem of combining solar reflection and glare control.

Clear Vision External 5% (CVE 5%) AND Regular Screen 5% (R/S 5%)





# CLEAR VISION EXTERNAL

## INNOVATIVE SUNSCREEN FABRICS

### WITH INTEGRATED TRANSPARENCY, THERMAL COMFORT AND GLARE CONTROL

With the special technology developed by Hande, the light color fabric can improve the heat reflection performance, while still can control more visible light into the room, effectively and efficiently reduce glare, increase the transparency clarity, and bring excellent visual comfort effect. And helps to improve the energy efficiency of buildings.

- Excellent Glare control, Up to 93% of visible light blocked (Tv=7%)
- Excellent solar protection, Up to 74% of solar reflection (RS=74%,SHGC=0.14)
- Basket Weave 2X2, The classic and popular style of weaving
- 9 COLORS, Available In 2 Standard Widths: 250cm and 300cm
- The customizable Maximum Width is 410cm
- Excellent MECHANICAL RESISTANCE And Dimensional Stability For Large Roller Blinds
- Health & Safty: Conforms To Standard Requirements For Buildings Open To The Public
- Excellent digital printing medium for custom designs

**7% vs 20%**

CVE VS REGULAR SCREEN 5% WHITE

**OF VISIBLE LIGHT**

TRANSMITTANCE

**74%** UP TO

SOLAR REFLECTANCE

**410 cm**

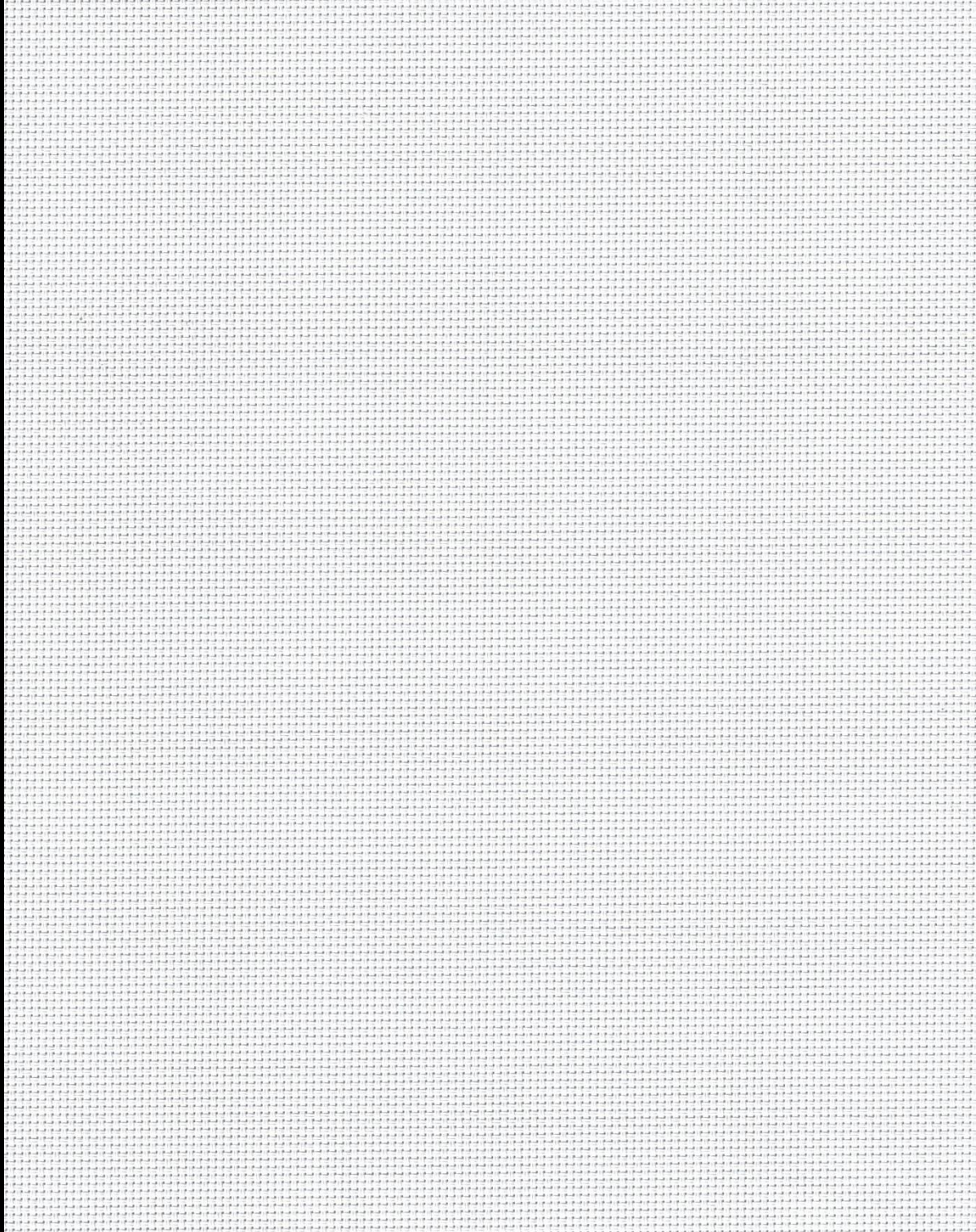
MAXIMUM WIDTH





## Openness Factor

0101 White \* White

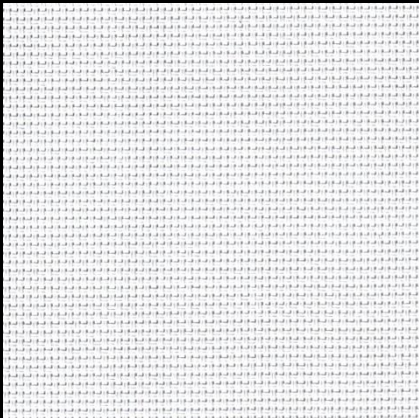


Openness Factor may be slightly different from the actual ones

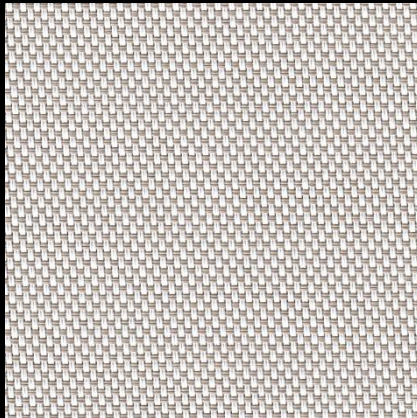


## Colours

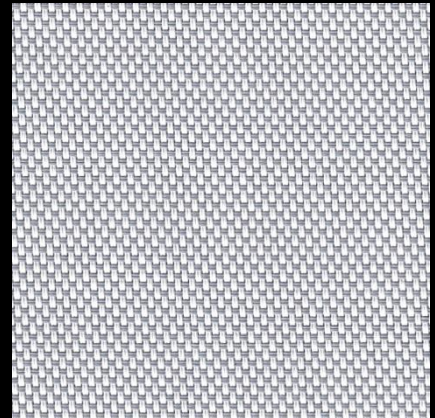
**CVE 5%**



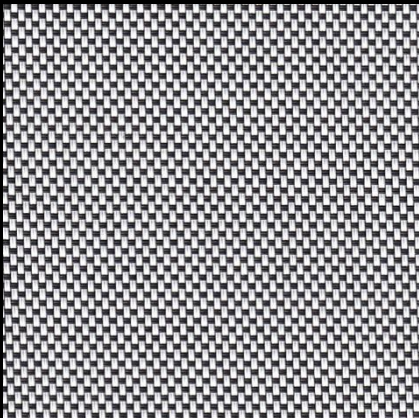
0101 White \* White



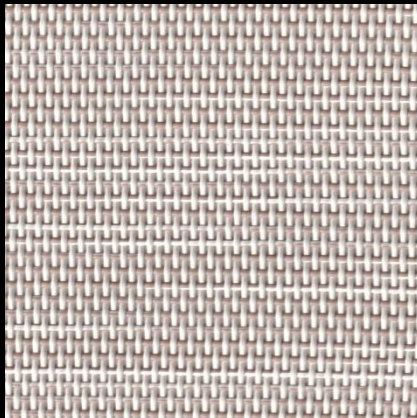
0107 White \* Sand



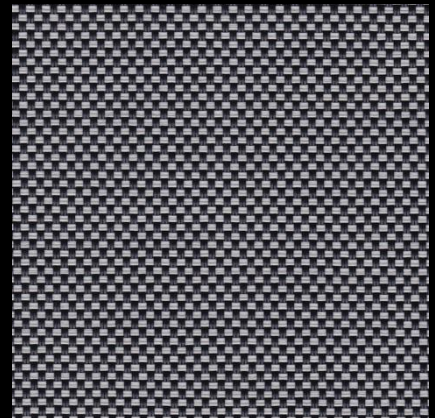
0105 White \* Grey



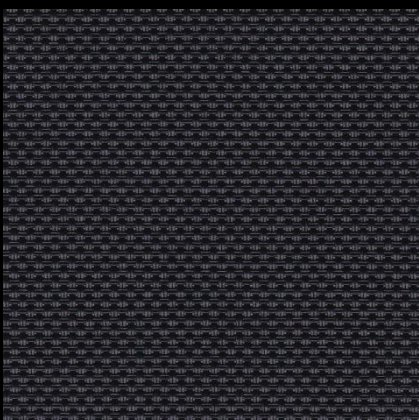
0104 White \* Black



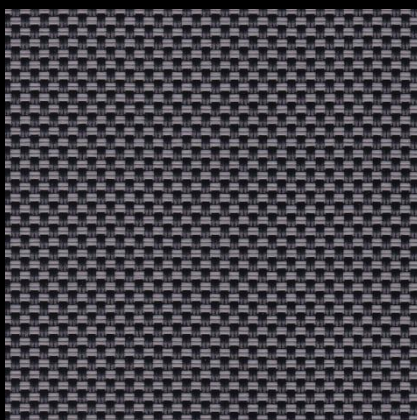
0207 Stucco



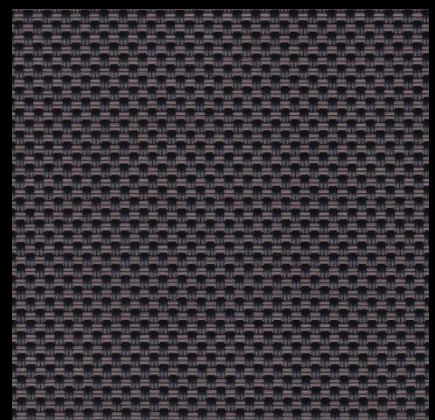
0403 Black\*Pearl



0404 Black \* Black



0405 Black \* Grey



0406 Black \* Bronze

\* Colours may be slightly different from the actual ones



**HanDe<sup>®</sup>**

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