



aluzion®

# EMERALD

GLARE & HEAT CONTROL | SHADING | OUTSIDE VIEW

Suitable for:



# EMERALD

## FABRIC SPECIFICATION

Emerald is a high performance fabric dedicated to comfort and design.

### Combatting glare

The aluminum side offers maximum visual comfort to people working on computers through:

- uniform light diffusion
- natural light preserved without glare

### Optimizing comfort

- Emerald's white side meets both visual and thermal comfort requirements
- Its dark side provides excellent outward visibility
- Its highly reflective white side protects users from heat

### The importance of design

Emerald is also available with both sides in the same colour for a look that seamlessly integrates into environments where design and simplicity are paramount.



<b>Thickness</b>	0.32mm - 320 microns
<b>Weight</b>	290g/m <sup>2</sup> - 8.6 oz/yd <sup>2</sup> (EN ISO 2286-2)
<b>Openness factor</b>	3%
<b>Widths</b>	177cm - 267cm / 69.7" - 105.1"
<b>Standard format length in 177cm</b>	50lm - 54.68 yd
<b>Standard format length in 267cm</b>	40lm - 43.74 yd
<b>Tensile strength (warp/weft)</b>	160/170 daN/5cm (EN ISO 1421)
<b>Tear strength (warp/weft)</b>	11/13 daN (DIN 53.363)
<b>Flame retardancy:</b>	
<b>B1/DIN 4102-1 - BS 7837 - BS 5867 - Schwerbrennbar-Q1-Tr1/ONORM A 3800-1 MI/UNE 23.727-90 - VKF 5.2/SN 198898 - 1530.3/AS/NZS - G1/GOST 30244-94 <b>Classe 1</b> / UNI 9177-87 - CAN ULCS109 - <b>Method 1 and 2/NFPA 701 - CSFM T19 <b>Class A</b>/ASTM E84</b></b>	
<b>Euroclass</b>	B-s2,d0 (EN 13501-1)
<b>Quality</b>	ISO 9001

*The technical data above are average values with a +/-5% tolerance.*

EPD and FDES (Health and Environmental Datasheet) available on request.

Personalised service for simulating your project's thermal performance and related Aluzion® solar protection systems: please contact your Aluzion® representative.

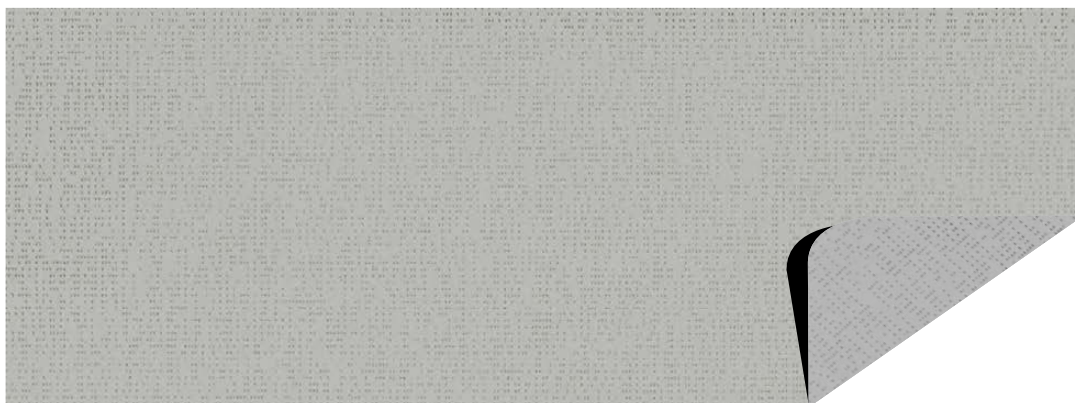
If you need advice in specifying or have a particular query that we may be able to help with, call the Aluzion® sales office on 0845 382 2000 or email your requirements to [info@aluzion.co.uk](mailto:info@aluzion.co.uk).



### HANDY TIP!

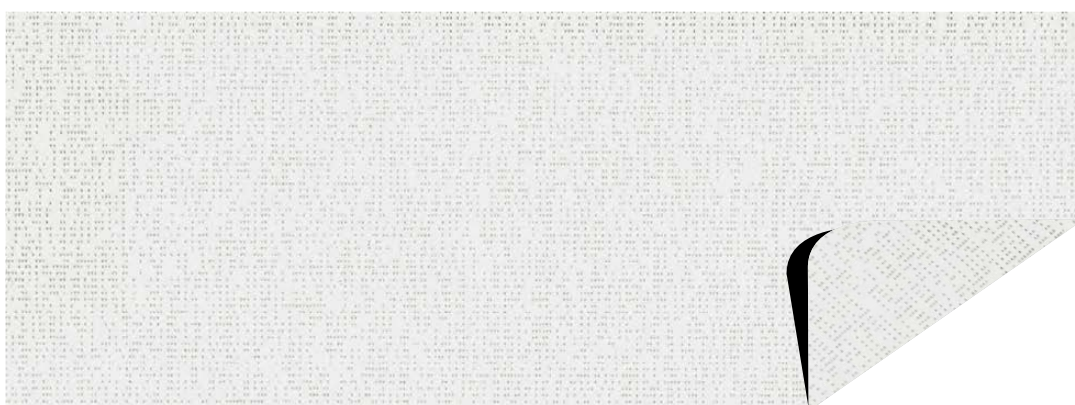
Due to the nature of a screen-type fabric, a view is created through to the strongest source of light (typically from inside to outside). This means the orb of the sun will often be visible, particularly in the winter months at low sun angles. When dark outside, and lights are on inside there will also be some view through in the opposite direction. This does not mean an issue with the fabric but is due to the inherent nature of it.

# EMERALD COLOUR CHART



**Light grey** 177 cm—267cm

99-2058



**Spume** 177 cm—267cm

99-50301

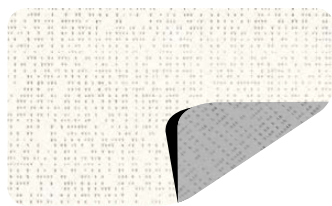


**Black** 177 cm

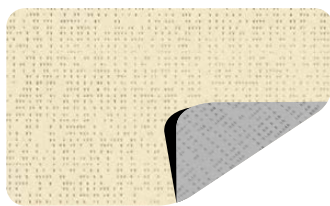
99-2115



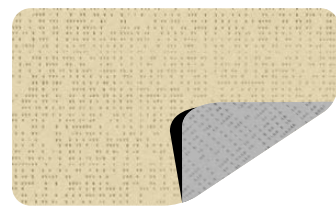
# EMERALD COLOUR CHART



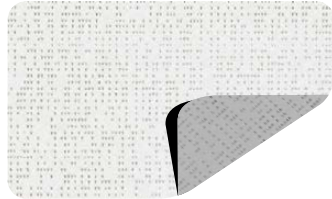
**White** 177 cm—267cm 99-2055



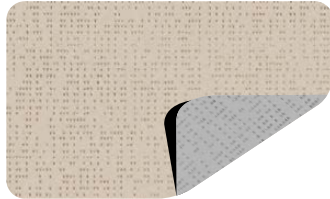
**Quartz** 177 cm—267cm 99-50285



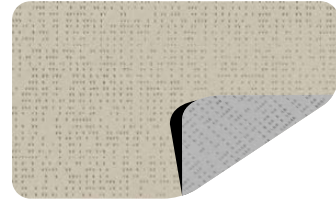
**Hemp** 177 cm 99-50287



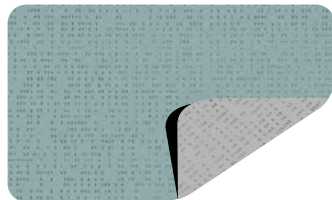
**Spume** 177 cm 99-50284



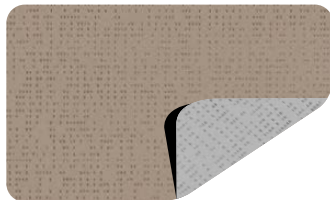
**Sandy beige** 177 cm—267cm 99-50286



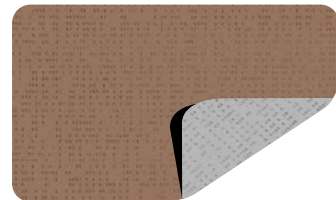
**Clay** 177 cm 99-50288



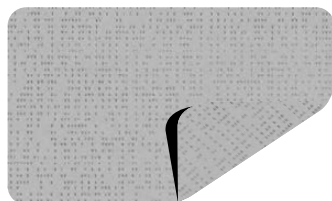
**Fjord** 177 cm 99-50299



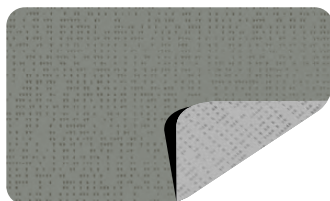
**Ash-brown** 177 cm 99-50289



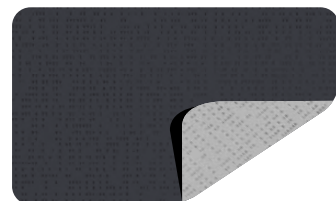
**Chestnut** 177 cm 99-50290



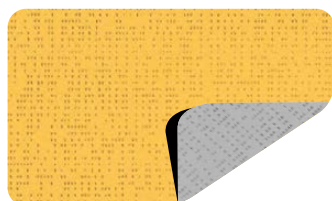
**Alu** 177 cm—267cm 99-2059



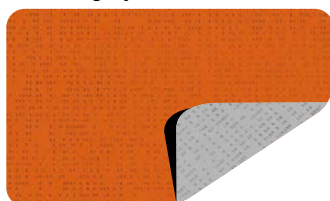
**Medium grey** 177 cm 99-2073



**Anthracite** 177 cm—267cm 99-2068



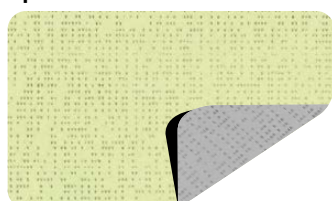
**Apricot** 177 cm 99-50292



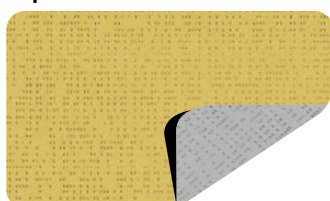
**Paprika** 177 cm 99-50293



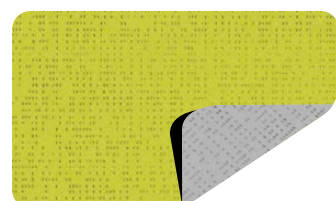
**Bermuda** 177 cm 99-50300



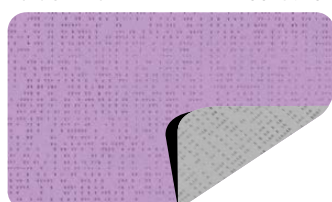
**Lotus** 177 cm 99-50294



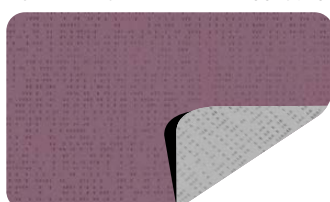
**Zenith** 177 cm 99-50291



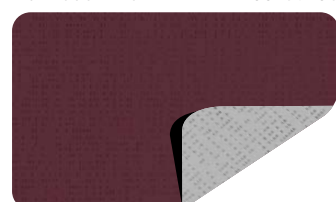
**Bamboo** 177 cm 99-50295



**Lilac** 177 cm 99-50296

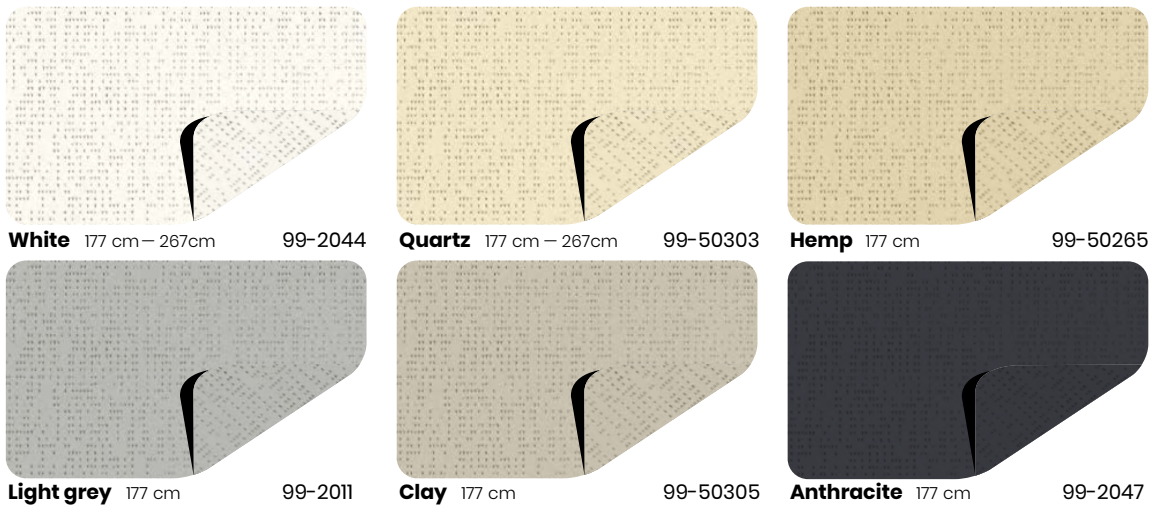


**Fig** 177 cm 99-50297



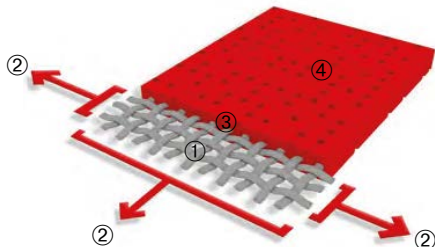
**Plum** 177 cm 99-50298

# EMERALD COLOUR CHART



## Exclusive Précontraint® technology

Patented worldwide, the Précontraint® technology involves keeping the composite under tension throughout the manufacturing cycle. It gives our materials exceptional performance that enable them to surpass market standards in terms of dimensional stability, mechanical strength, coating thickness and flatness.



High-tenacity polyester micro-yarn base cloth	①	Superior elongation and tear resistance
A coating with fabrics under bi-axial constant tension in both warp and weft directions	②	No deformation during processing and use
Greater coating at the top of the yarns and a dirt resistant surface treatment	③	Superior aesthetic and mechanical durability
Exceptional flatness and thinness	④	Smooth finish easy to clean, space saving, easy rolling



### HANDY TIP!

Horizontal fabric joints will be introduced where both dimensions of a blind exceed the maximum usable width of the fabric. The joints will normally be situated as near to the top of the blind as possible. Joints are visible and are either stitched or heat welded.

# EMERALD SOLAR AND LIGHT PROPERTIES (EN 14501)

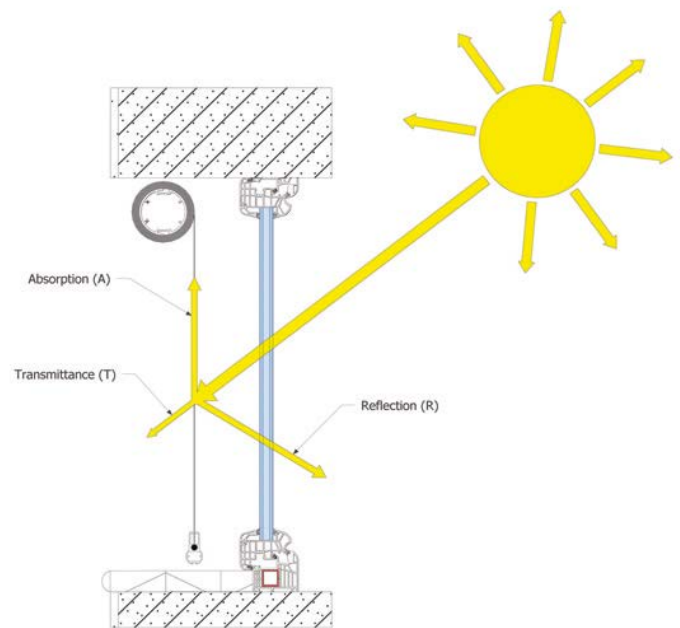
	Width (cm)		TS	RS	AS	TV n-h	EN 13363-1*	EN 13363-2**
	177	267					Type "C" glazing	Type "D" glazing
							$g_{tot}^i$	$g_{tot}^i$
99-2055 A	•	•	14	47	39	13	0.42	0.18
99-2055 B	•	•	14	63	23	13	0.37	0.12
99-2058 A	•	•	8	44	48	6	0.43	0.19
99-2058 B	•	•	8	43	49	6	0.43	0.19
99-2059 A/B	•	•	6	43	51	5	0.43	0.19
99-2068 A	•	•	3	33	64	3	0.46	0.22
99-2068 B	•	•	3	8	89	3	0.54	0.28
99-2073 A	•		4	39	57	3	0.44	0.20
99-2073 B	•		4	25	71	3	0.49	0.24
99-50284 A	•		12	47	41	9	0.42	0.18
99-50284 B	•		12	60	28	9	0.37	0.14
99-50285 A	•	•	11	47	42	9	0.42	0.18
99-50285 B	•	•	11	60	29	9	0.37	0.15
99-50286 A	•	•	10	43	47	7	0.43	0.19
99-50286 B	•	•	10	44	46	7	0.43	0.19
99-50287 A	•		8	45	47	6	0.42	0.19
99-50287 B	•		8	47	45	6	0.42	0.19
99-50288 A	•		6	44	50	5	0.43	0.19
99-50288 B	•		6	39	55	5	0.44	0.21
99-50289 A	•		6	42	52	4	0.43	0.19
99-50289 B	•		6	30	64	4	0.47	0.23
99-50290 A	•		5	40	55	4	0.44	0.25
99-50290 B	•		5	25	70	4	0.49	0.25
99-50291 A	•		10	45	45	9	0.42	0.19
99-50291 B	•		10	49	41	9	0.41	0.19
99-50292 A	•		12	44	44	10	0.43	0.19
99-50292 B	•		12	51	37	10	0.40	0.19
99-50293 A	•		8	43	49	5	0.43	0.19
99-50293 B	•		8	36	56	5	0.45	0.24
99-50294 A	•		12	45	43	10	0.42	0.19
99-50294 B	•		12	52	36	10	0.40	0.18
99-50295 A	•		8	42	50	6	0.43	0.19
99-50295 B	•		8	36	56	6	0.45	0.23
99-50296 A	•		7	45	48	4	0.42	0.18
99-50296 B	•		7	47	46	4	0.42	0.19
99-50297 A	•		5	42	53	4	0.43	0.20
99-50297 B	•		5	20	75	4	0.50	0.26
99-50298 A	•		6	40	54	4	0.44	0.20
99-50298 B	•		6	17	77	4	0.51	0.28
99-50299 A	•		7	44	49	5	0.43	0.18
99-50299 B	•		7	48	45	5	0.41	0.18
99-50300 A	•		6	44	50	5	0.43	0.19
99-50300 B	•		6	39	55	5	0.44	0.21

## Colour / Colour

99-2011	•		12	44	44	8	0.43	0.19	
99-2044	•	•	23	66	11	21	0.36	0.12	
99-2047	•		3	8	89	3	0.54	0.28	
99-50265	•		15	47	38	11	0.42	0.19	
99-50301	•	•	20	61	19	15	0.37	0.14	
99-50303	•	•	21	59	20	15	0.38	0.16	
99-50305	•		10	38	52	6	0.45	0.21	

## Colour / White

99-2115 A*	•		8	62	30	7	0.37	0.12
99-2115 B*	•		8	10	82	7	0.54	0.28



\*Simplified method  
EN 13363-1

The transmission and reflection values above are based on the integrated values of the glass combined with the screen. These are used to calculate the  $g_{tot}$  value. Type "C" glazing is double glazing and insulated with low emissivity in position 3 (4 + 16 + 4; Argon-filled)  $g = 0.59 - U = 12$ .

\*\*Detailed method  
EN 13363-2

The transmission and reflection values above are based on the integrated values of the glass combined with the screen. These are used to calculate the  $g_{tot}$  value. Type "D" glazing is double glazing and insulated with low emissivity in position 2 (4 + 16 + 4; Argon-filled)  $g = 0.32 - U = 11$ .

**TS:** Solar Transmission (%)

**RS:** Solar Reflection (%)

**AS:** Solar Absorption (%)

**TS + RS + AS = 100%** of incident energy

**TV n-h:** Normal-hemispherical visible light transmission (%)

**A:** Aluminium face exposed to the sun

**B:** Coloured face exposed to the sun

**A\*:** White face exposed to the sun

**B\*:** Black face exposed to the sun

**$g_{tot}^i$ :** Internal solar factor



Aluzion® reserve the right to change colours without notice as colours may become obsolete, discontinued or only compatible with particular blind systems.

If in doubt, please request stock cuttings of fabrics before production.

Please note that colours viewed on screen will appear different to the actual product.