

Combine indoor thermal  
and visual comfort



**Internal Applications**  
Interior shades and sliding panels



■ **Optimized thermal comfort**

Soltis Feel LowE solar protection screens act as thermal barrier. Under the effect of solar radiation, they heat up but do not re-emit their heat towards the building interior in summer (screen effect). Internal temperature is thus better controlled and user comfort is enhanced.

■ **Energy performance**

The LowE treatment reflects cool air in summer and heat in winter to keep them inside the building: this is the mirror effect.

Heating and air conditioning equipment is used less often, reducing building energy expenditures. Soltis Feel LowE screens reduce air conditioning use by up to 40%\*!

\* Serge Ferrari SoltisSim® simulation: comparison of a Barcelona office building's southern facade without shades and with Soltis Feel LowE 99-2061E shades (type "C" glazing).

■ **Visual comfort**

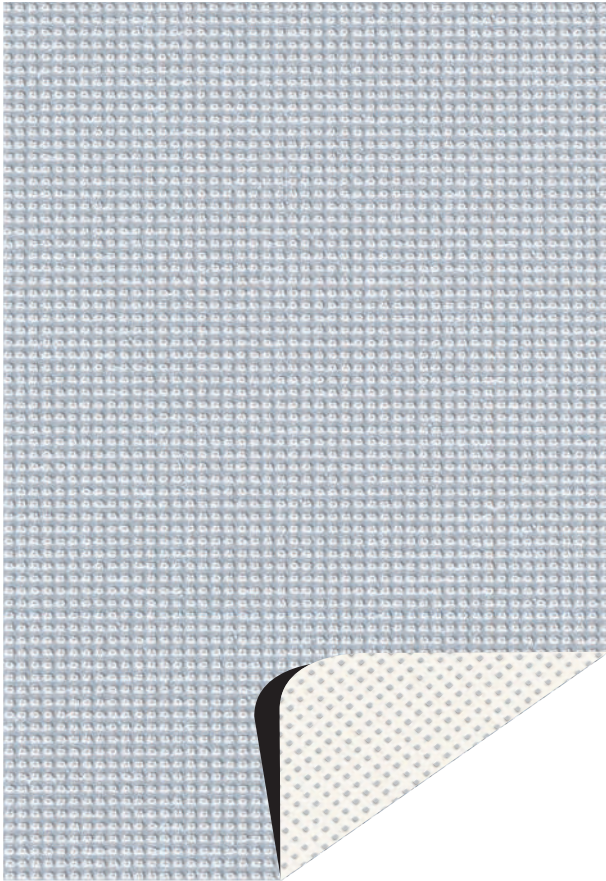
Soltis Feel LowE screens contribute to the occupant's visual comfort by maintaining:

- a view to the outdoors
- natural light without glare.

You'll feel  
the difference!

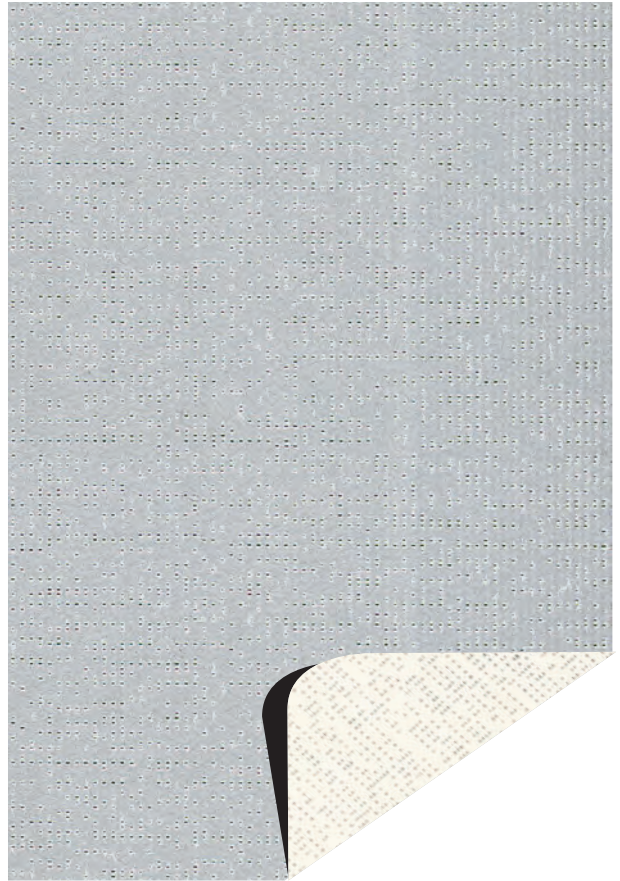


The colours and textures represented in this document are provided as a reference only.



**Alu LowE/White 177 cm**

88-2061E

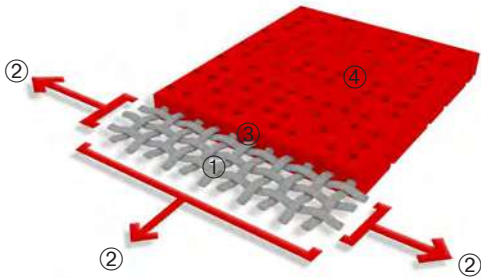


**Alu LowE/White 177 cm**

99-2061E

## ■ Exclusive Précontraint® technology

Patented worldwide, the Précontraint® technology by Serge Ferrari 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

## ■ Solar and light properties (EN 14501)

Soltis Feel 88 LowE		TS	RS	AS	TV n-h	EN13363-1* Type C glazing $g_{tot}$	EN13363-2** Type D glazing $g_{tot}$	Emissivity
88-2061E	A	13	68	19	12	0.35	0.12	0.45
88-2061E	B	13	68	19	12	0.35	0.11	0.90

Soltis Feel 99 LowE		TS	RS	AS	TV n-h	EN13363-1* Type C glazing $g_{tot}$	EN13363-2** Type D glazing $g_{tot}$	Emissivity
99-2061E	A	8	71	21	7	0.34	0.10	0.35
99-2061E	B	8	70	22	7	0.34	0.11	0.90

<b>TS:</b> Solar Transmission (%)
<b>RS:</b> Solar Reflection (%)
<b>AS:</b> Solar Absorption (%)
<b>TS + RS + AS = 100%</b> of incident energy
<b>TV n-h:</b> Normal-hemispherical visible light transmission (%)
<b><math>g_{tot}</math>:</b> Internal solar factor
<b>A:</b> Aluminium face exposed to the sun
<b>B:</b> Coloured face exposed to the sun

### \*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)  $g = 0.59 - U = 1.2$ .

### \*\*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)  $g = 0.32 - U = 1.1$ .

# Soltis

## Feel LowE



### Soltis Feel 88 LowE

### Soltis Feel 99 LowE

	■ <b>Technical properties</b>		<b>Standards</b>
Weight	360 g/m <sup>2</sup> — 10.6 oz/yd <sup>2</sup>	290 g/m <sup>2</sup> — 8.6 oz/yd <sup>2</sup>	EN ISO 2286-2
Thickness	0.45 mm — 450 microns	0.32 mm — 320 microns	
Width	177 cm — 69.7 in.	177 cm — 69.7 in.	
	■ <b>Length of rolls</b>		
Standard format length	50 lm — 54.68 yd	50 lm — 54.68 yd	
	■ <b>Physical properties</b>		
Tensile strength (warp/weft)	145/145 daN/5 cm	160/170 daN/5 cm	EN ISO 1421
Tear strength (warp/weft)	14/14 daN	11/13 daN	DIN 53.363
	■ <b>Flame retardancy</b>		
Rating	<b>B1</b> /DIN 4102-1 — BS 7837 BS 5867 — <b>Schwerbrennbar-Q1-Tr1</b> /ONORM A 3800-1 <b>CLASSE 1</b> /UNI 9177-87 <b>M1</b> /UNE 23.727-90 <b>VKF 5.2</b> /SN 198898 1530.3/ <b>AS/NZS</b> <b>G1</b> /GOST 30244-94 <b>METHOD 1</b> /NFPA 701 CSFMT19 — <b>CLASS A</b> /ASTM E84	<b>B1</b> /DIN 4102-1 — BS 7837 BS 5867 — <b>Schwerbrennbar-Q1-Tr1</b> /ONORM A 3800-1 <b>M1</b> /UNE 23.727-90 <b>VKF 5.2</b> /SN 198898 1530.3/ <b>AS/NZS</b> <b>G1</b> /GOST 30244-94 <b>METHOD 1 AND 2</b> /NFPA 701 CSFMT19 — <b>CLASS A</b> /ASTM E84 <b>CLASSE 1</b> /UNI 9177-87 CAN ULCS 109	
Euroclass	<b>B-s2, d0</b>	<b>B-s2, d0</b>	EN13501-1
	■ <b>Management systems</b>		
Quality			ISO 9001
	■ <b>Certifications, labels, warranties, recycling</b>		



With **S+** Serge Ferrari goes further than the standards...  
(consult us for further information)

### ■ **Recommendations**

- No high-frequency welding: Use of binding strips recommended (cf. Soltis technical guide).
- Consult us for further information.

### ■ **Tools and services**

- Personalised service for simulating your project's thermal performance and related Soltis solar protection systems: Please contact your Serge Ferrari representative
- Tool for evaluating energy savings generated by Soltis solar protection systems: [www.textinergie.org](http://www.textinergie.org)
- Document and photo libraries: [www.sergeferrari.com](http://www.sergeferrari.com)

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

The buyer of our products is fully responsible for their application and their transformation with regard to any possible third party. The buyer of our products is responsible for their implementation and installation according to the standards, workmanship and safety regulations in force in destination countries. For information on our contractual warranty, please refer to the relevant terms and conditions.

The values quoted above represent results of tests performed in compliance with common design practices and are provided for information only to enable customers to make the best use of our products. Our products are subject to changes based on technical advances and we reserve the right to modify their characteristics at any time. The buyer of our products is responsible for checking the validity of the above data.