

**Serge Ferrari**

**Soltis**  
Safe SK 20

An indoor, non-combustible  
screen for demanding  
environments



### Interior applications

Roller shades, skylight shades

Tensioned ceilings, acoustic panels and baffles



### ■ Optimum fire safety

Soltis Safe SK 20 complies with the most stringent fire safety standards, including those applicable to public buildings.

Rated:

- A2-s1,d0: non-flammable material,
- Class A: minimal flame spread/smoke material
- F0: it will release low non-toxic smoke in a fire.

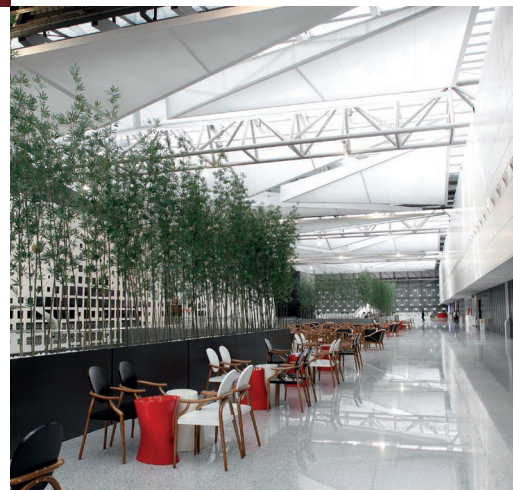
### ■ A comprehensive solution for optimum comfort

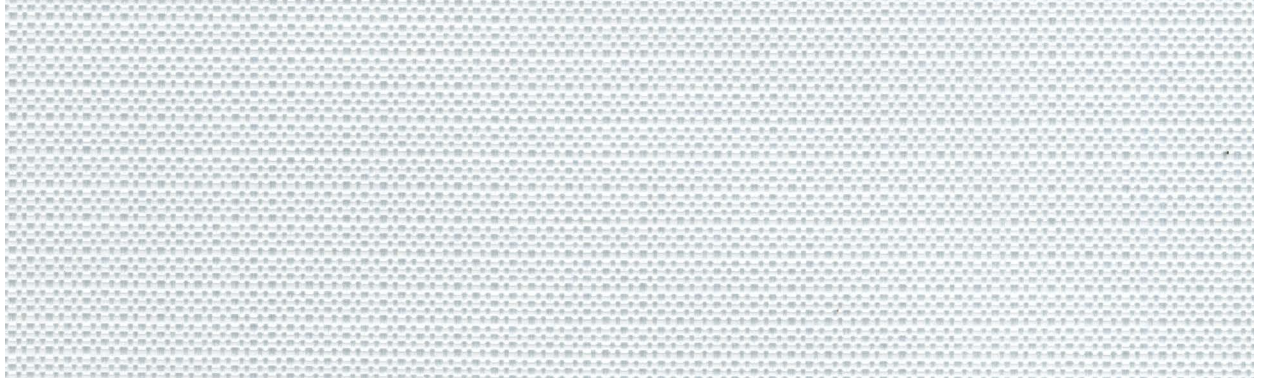
- thermal comfort (SK 20-1294E)  
Up to 25% reduction in air conditioning energy requirements for an office building in Barcelona
- visual comfort (SK 20-1294):  
preserves daylighting to reduce the use of artificial light
- acoustic comfort: significant reduction in reverberation time (see acoustic properties table).

### ■ Inconspicuous integration

Soltis Safe SK 20 is made to naturally withstand elevated temperatures while maintaining its original properties. It is lightweight and thin so long shades do not take up much space when rolled up, making Soltis Safe SK 20 an ideal solution for shades between glass panes.

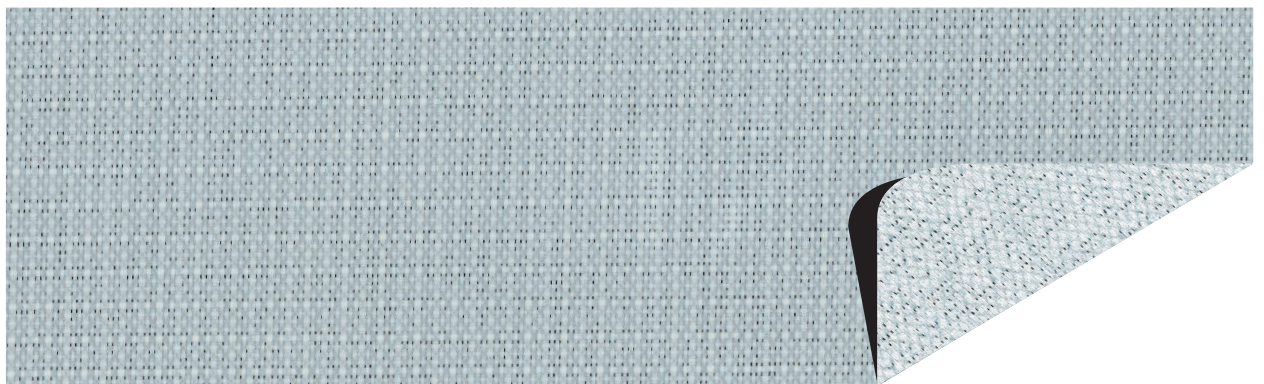
Thermal,  
visual and acoustic:  
three times more comfort





**Translucent** 262 cm

SK 20-1294



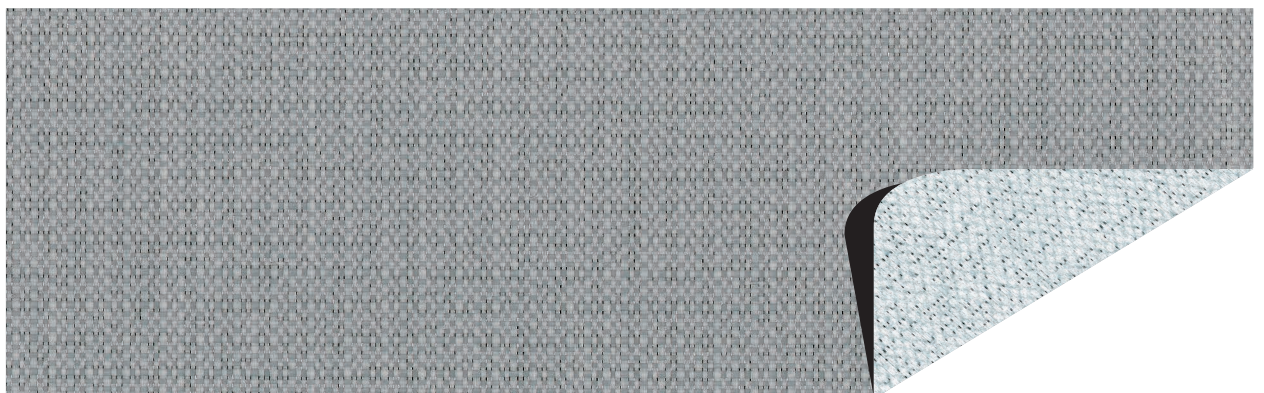
**Translucent/Alu** 262 cm

SK 20-1294 E



**Dark grey/Alu** 262 cm

SK 20-2123 E



**Beige/Alu** 262 cm

SK 20-2119 E

## LowE advantages (except SK 20-1294)

### Screen effect

In bright sunlight, the material heats up, but re-emits only a little heat inward. It acts as a thermal barrier, reducing:

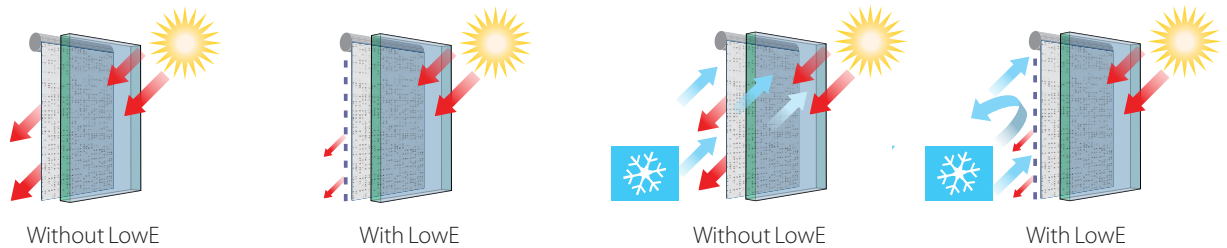
- > solar heat in summer,
- > the sensation of warm in summer or cold in winter felt near the glass wall.

### Mirror effect

LowE treatment strengthens the effective power of air conditioning or heating equipment. Hot air in winter or cold in summer is reflected and therefore maintained inside. Outward losses are limited.

**LowE treatment improves occupants comfort and the energy performance of the building. Operating costs and environmental impact are reduced.**

LowE Treatment    Heat    Air-conditioning



## Solar and light properties (EN 14501)

References	Face	TS	RS	AS	TV n-h	RV	EN13363-1* Type "C" glazing $g_{tot}$	EN13363-2** Type "D" glazing $g_{tot}$
SK 20-1294 E	A	17	54	29	17	54	0,40	0,15
SK 20-1294 E	B	17	54	29	17	55	0,40	0,15
SK 20-1294	A/B	45	53	2	45	53	0,41	0,18
SK 20-2119 E	A	9	59	32	8	58	0,38	0,15
SK 20-2119 E	B	9	47	44	8	45	0,42	0,19
SK 20-2123 E	A	10	57	33	8	56	0,38	0,16
SK 20-2123 E	B	10	34	56	8	28	0,46	0,23

<b>A:</b> Aluminium face exposed to the sun
<b>B:</b> Coloured face exposed to the sun
<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>RV:</b> Visible light reflection (%)
<b><math>g_{tot}</math>:</b> Internal solar factor

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

## Acoustic properties (EN ISO 20354 / ISO 354)

EN ISO 20354 / ISO 354	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	Alpha w	NRC (Noise Reduction Coefficient)
Soltis Safe SK 20 + 100 mm air gap	0.05	0.10	0.20	0.35	0.40	0.40	0.30	0.25
Soltis Safe SK 20 + 45 mm Rockwool	0.15	0.60	1	1	1	1	0.90	0.90



# Soltis

## Safe SK 20

	■ Technical properties	Standards
Openness factor	2%	
Weight	220 g/m <sup>2</sup> — 6.5 oz/sq.yd	EN ISO 2286-2
Thickness	0.22 mm — 220 microns	
Width	262 cm — 103.1 in	
■ Length of rolls		
Standard format length	40 lm — 43.74 yds	
■ Physical properties		
Tensile strength (warp/weft)	250/200 daN/5 cm	EN ISO 1421
Tear strength (warp/weft)	25/20 daN	DIN 53353
Emissivity SK 20 (alu face)	≤ 0.55	ASTM 1585
Acoustic absorption (aw) 100 mm air gap	0.30	EN ISO 20354 / ISO 354 Reverberation room
■ Flame retardancy		
Rating	<b>A2</b> /DIN 4102-1 — <b>1530.3</b> /AS/NZS — <b>Class A</b> /ASTM E84 — AS NZS 3837 BS 476 — Smoke class <b>FO</b> /NF F 16-101	
Euroclass	<b>A2-s1,d0</b>	EN 13501-1
■ Management systems		
Quality		ISO 9001
■ Certifications, labels, warranties, recycling		
	 	With <b>S+</b> Serge Ferrari goes further than the standards... (consult us for further information)
■ Recommendations		
<ul style="list-style-type: none"> <li>— Fabricate by sewing or welding with binding strips (refer to our fabrication guide)</li> <li>— Care and Handling: Soltis Safe SK 20 must be kept flat or rolled and not folded during the various stages of handling, preparation and transportation. Protective measures should be taken on cutting tables and with assembly equipment. Clean with rubbing alcohol and a white-colored soft cloth. Do not expose the material to water.</li> <li>— Consult our Material Use Guideline for further recommendations on the handling and fabrication of Soltis Safe SK 20.</li> </ul>		
■ Tools and services		
<ul style="list-style-type: none"> <li>— Making up guide available</li> <li>— Personalised service for simulating your project's thermal performance and related Soltis solar protection systems: please contact your Serge Ferrari representative</li> <li>— Tool for evaluating energy savings generated by Soltis solar protection systems: SoltisSim'</li> <li>— Document and photo libraries: <a href="http://www.sergeferrari.com">www.sergeferrari.com</a></li> </ul>		

The technical data above are average values with a +/- 5% tolerance.  
 The buyer of our products is fully responsible for their application or their transformation concerning any possible third party. The buyer of our products is responsible for their implementation and installation in compliance with standards, codes of practice 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 subjects to evolutions due to technical progress, we remain entitled to modify the characteristics of our products at any time. The buyer of our products is responsible for checking the validity of the above data.