

**SOLTIS**

SK 20



**Serge Ferrari** 

## MAIN FEATURES

- Micro-aerated, flexible, composite material
- Non combustible - Non flammable
- Low emission of non-toxic fumes
- LowE low emissivity treatment
- Light management

## APPLICATIONS

- Indoor blinds
- Interior sunshades for glass roofs
- Light diffusers and reflectors
- Sound absorbers
- Low emissivity tensioned ceilings

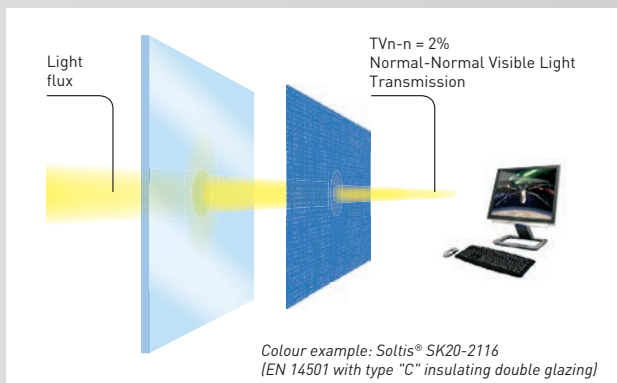


Unmatched fire and smoke behaviour

## Optimum fire safety

Soltis SK 20 complies with the most stringent safety standards, including those applicable to buildings receiving the public. Rated:

- A2-s1,d0: non-flammable material,
- F0: highest possible rating based on smoke toxicity and opaqueness testing.



Optimum control of light contributions

## Visual comfort and natural light control

Soltis SK 20's composition, micro-aerated texture and metallised finish all guaranteed:

- permanent visual contact with the exterior due to the material's translucence,
- harmonious light diffusion or reflection,
- limited dazzle discomfort.



LowE: comfort and energy performance

## LowE treatment contributes to greater thermal protection

Soltis SK 20's low emissivity treatment ( $LowE \leq 0.55$ ) contributes to:

- greater well-being of residents by maintaining a steady and comfortable perceived temperature.
- the building's energy balance by reducing air-conditioning demands.

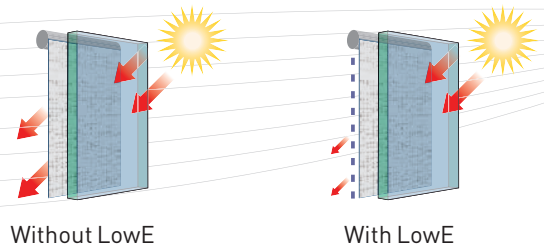
# LowE Advantages

LowE treatment ..... Heat → Air-conditioning →

## • Screen effect in summer

In bright sunlight, the material heats up, but re-emits only a little heat inward.

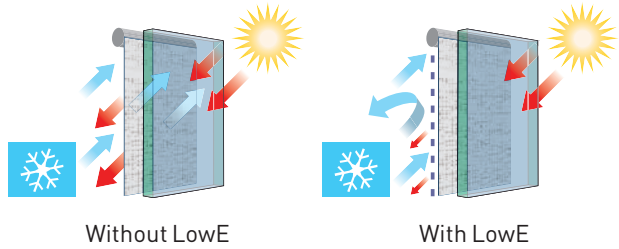
- > solar contributions reduced, thermal comfort significantly improved,
- > "hot-wall" sensations are eliminated, residents no longer feel this diffuse heat effect near windows.



## • Mirror effect in both winter and summer

The LowE treatment boosts the effective power of air conditioning by reflection and by keeping cool air inside.

- > less demand for heating and air conditioning equipment,
- > reduced building operating costs and environmental impact.



# Acoustic Comfort

Characterised by their micro-perforated structure, Soltis SK 20 materials produce a very significant acoustic absorption effect.

EN ISO 20354 / ISO 354	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
Soltis SK 20 + 100 mm air gap	0.05	0.05	0.25	0.45	0.35	0.40

# Solar and light properties (EN 14501)

	Reference	TS	RS	AS	TV <sub>n-h</sub>	TV <sub>n-n</sub>	RV	g <sub>tot</sub> <sup>1</sup>
A	SK 20-2116 E	10	58	32	9	2	58	0.38
B	SK 20-2116 E	10	44	46	9	2	40	0.43
A	SK 20-2119 E	10	59	31	9	2	59	0.38
B	SK 20-2119 E	10	45	45	9	2	42	0.42
A	SK 20-2122 E	7	58	35	4	2	56	0.38
B	SK 20-2122 E	7	33	60	4	2	14	0.46
A	SK 20-2123 E	10	56	34	8	3	54	0.39
B	SK 20-2123 E	10	31	59	8	3	26	0.47
A	SK 20-1294 E	10	60	30	10	2	60	0.37
B	SK 20-1294 E	10	55	35	10	2	55	0.39
A/B	SK 20-1294	47	49	4	47	3	50	0.42

**TS:** Solar Transmission (%)

**RS:** Solar Reflection (%)

**AS:** Solar Absorption (%)

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

**TVn-n:** TVn-n: Normal-normal Visible Light Transmission (%)

**TVn-h:** Normal-hemispherical Visible Light Transmission (%)

**RV:** Visible light reflection (%)

**g<sub>tot</sub><sup>1</sup>:** Internal Solar Factor

Type "C" glazing: insulating, slightly emissive double glazing in position 3 (4 + 16 + 4; argon-filled).

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

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

Technical properties	Soltis SK 20	Standards
Weight	220 g/m <sup>2</sup>	EN ISO 2286-2
Thickness	0.22 mm	
Width	267 cm	
<b>Length of rolls</b>		
Standard format length	40 lm	
<b>Physical properties</b>		
Tensile strength (warp/weft)	250/200 daN/ 5 cm	EN ISO 1421
Tear strength (warp/weft)	25/20 daN	DIN 53353
Emissivity	≤ 0.55	ASTM 1585
Acoustic absorption (α <sub>w</sub> ) 100 mm air gap	0.40	EN ISO 20354 / ISO 354 Echo chamber
<b>Flame retardancy</b>		
Rating	<b>M1/NFP 92-507 • A2/DIN 4102-1 • FO/NF F 16-101</b>	
Euroclass	<b>A2-s1,d0/EN 13501-1</b>	
<b>Management systems</b>		
Quality	ISO 9001	
<b>Certifications, labels, guarantees, recycling</b>		



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

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## RECOMMENDATIONS

- Making up by sewing or vulcanisation with **BASIL** strips (refer to our making up guide)
- Handling and upkeep: Soltis SK 20 must be **kept flat or rolled** and not folded during handling, preparation and transportation. Protective measures should be taken on the cutting tables and assembly equipment. Clean with rubbing alcohol and a white-coloured soft cloth. Do not expose the material to water.

## TOOLS AND SERVICES

- Making up guide available on request
- 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)

### → Contact us

- Tel. +33 (0)4 74 97 41 33
- Contact and project forms available at: [www.sergeferrari.com](http://www.sergeferrari.com)

### → Specification department

- Contact your Serge Ferrari representative
- To detail your project, fill in a form under: [www.sergeferrari.com](http://www.sergeferrari.com)

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