

Serge Ferrari

Soltis
Opaque

Blackout, comfort
and durability



Applications

Indoor shades, facade shades (Soltis Opaque B92 and B702), conservatory and skylight shades, drop-arm awnings



■ Choice of darkening level

A solution suited to your needs:

- Total blackout: Soltis Opaque B92
 - maximum opacity level above 100,000 lux
 - ideal for the most light-sensitive areas: artwork conservation, radiology or photography laboratories and more. . .
- Darkening: Soltis Opaque B99, B990 and B702
 - black out up to 30,000 lux
 - suitable for theaters, meeting rooms, relaxation rooms and more.

■ High-performance screens

- Soltis Opaque B92
 - no detectable transmission of visible light, infrared or UV rays
 - resistant to weather damage when used outdoors
- Soltis Opaque B702
 - thermal comfort and darkening: white face reflects heat, black face darkens room
- Soltis Opaque B99 and B990
 - indoor applications only
 - lightweight and thin for easy, discreet integration.

■ Color coordination

- Colors coordinated with other Soltis ranges
- Perfect building harmony
- New white/white version: Soltis Opaque B990 (combining thermal comfort and design).

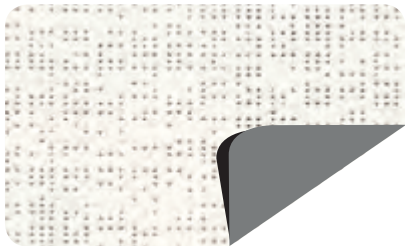
Choose the blackout level that suits your projects





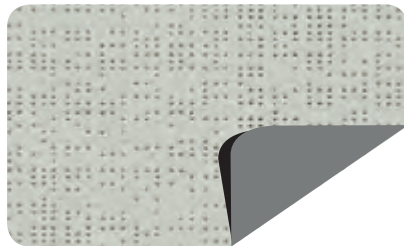
Bronze 170 cm

B92-1043



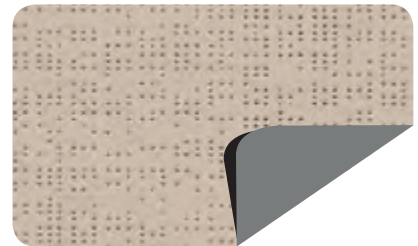
White 170 cm

B92-1044



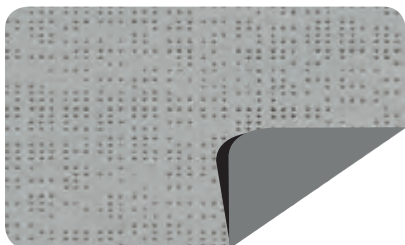
Boulder 170 cm

B92-2171



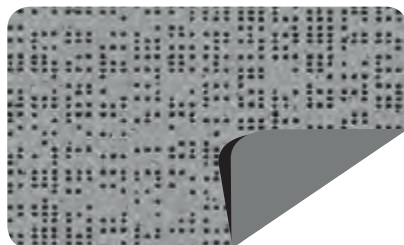
Sandy beige 170 cm

B92-2135



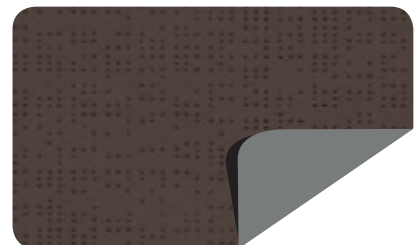
Alu 170 cm

B92-1046



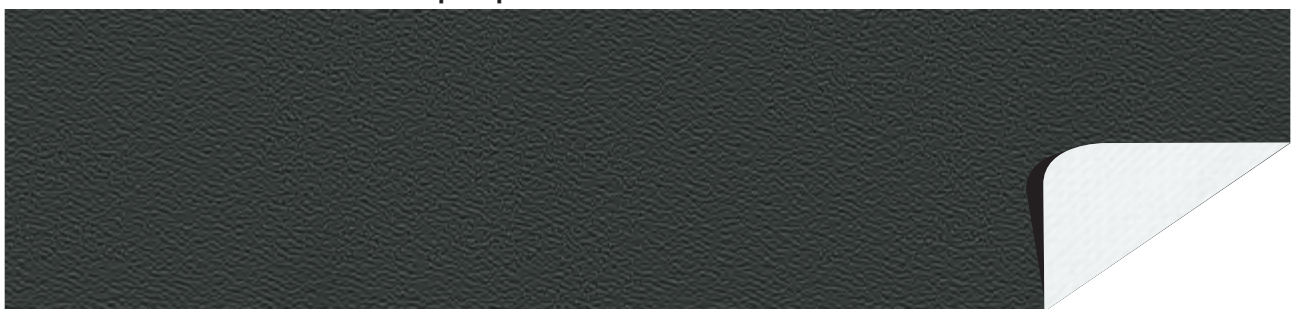
Beaten metal 170 cm

B92-1045



Bronze 170 cm

B92-1043



Black 177 cm

B702-455



White 170 cm

B990-50360



White 170 cm

B99-50348



White 170 cm

B99-50348



Quartz 170 cm

B99-50285



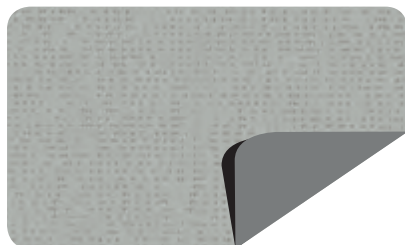
Hemp 170 cm

B99-50287



Spume 170 cm

B99-50284



Light grey 170 cm

B99-50613



Clay 170 cm

B99-50288



Alu 170 cm

B99-50358



Medium grey 170 cm

B99-50354

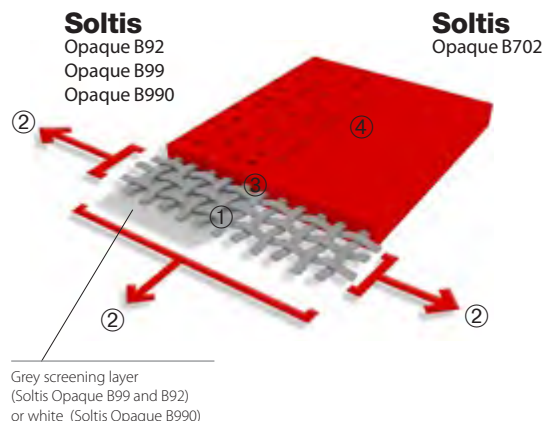


Anthracite 170 cm

B99-50614

■ Exclusive Précontraint® technology

Patented worldwide, the Précontraint® technology by Serge Ferrari keeps the composite material under tension throughout the manufacturing process. This gives our materials exceptional performance characteristics 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
Thicker 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

Grey screening layer
(Soltis Opaque B99 and B92)
or white (Soltis Opaque B990)

■ Solar and light properties (EN 14501)

Soltis Opaque B92	RS	AS	EN 13363-1* Type "C" glazing		EN 13363-2** Type "D" glazing	
			g_{tot}^e	g_{tot}^i	g_{tot}^e	g_{tot}^i
B92-1043	14	86	0.08	0.52	0.03	0.1
B92-1044	70	30	0.03	0.34	0.01	0.27
B92-1045	38	62	0.05	0.44	0.02	0.19
B92-1046	49	51	0.05	0.41	0.02	0.17
B92-2135	47	53	0.05	0.41	0.02	0.18
B92-2171	45	55	0.05	0.42	0.02	0.18
B92-VERSO	29	71	0.06	0.47	0.03	0.22

Soltis Opaque B99	RS	AS	EN 13363-1* Type "C" glazing	EN 13363-2** Type "D" glazing
			g_{tot}^i	g_{tot}^i
B99-50284	62	38	0.37	0.13
B99-50285	61	39	0.37	0.14
B99-50287	47	53	0.41	0.18
B99-50288	40	60	0.44	0.2
B99-50348	66	34	0.35	0.1
B99-50354	25	75	0.49	0.18
B99-50358	45	55	0.42	0.23
B99-50613	45	55	0.42	0.18
B99-50614	8	92	0.54	0.27
B99-VERSO	29	71	0.47	0.22

Soltis Opaque B702	RS	AS	EN 13363-1* Type "C" glazing		EN 13363-2** Type "D" glazing	
			g_{tot}^e	g_{tot}^i	g_{tot}^e	g_{tot}^i
B702-455 A*	72	28	0.02	0.33	0.01	0.15
B702-455 B*	6	94	0.08	0.55	0.04	0.29

Soltis Opaque B990	RS	AS	EN 13363-1* Type "C" glazing	EN 13363-2** Type "D" glazing
			g_{tot}^i	g_{tot}^i
B990-50360 A	66	34	0.35	0.11
B990-50360 B	76	24	0.32	0.07

RS: Solar Reflection (%)

AS: Solar Absorption (%)

A*: White face exposed to the sun

B*: Black face exposed to the sun

A: Aluminium face exposed to the sun

B: Coloured face exposed to the sun

g_{tot}^e : External solar factor

g_{tot}^i : 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}^i 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}^i 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

Opaque

Soltis Opaque B92	Soltis Opaque B99	Soltis Opaque B990	Soltis Opaque B702
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■ Technical properties

	Soltis Opaque B92	Soltis Opaque B99	Soltis Opaque B990	Soltis Opaque B702	Standards
Weight	650g/m ² – 19.1 oz/yd ²	540g/m ² – 15.9 oz/yd ²	650g/m ² – 19.1 oz/yd ²	750g/m ² – 22.1 oz/yd ²	EN ISO 2286-2
Thickness	0.60 mm	0.47 mm	0.53 mm	0.60 mm	
Width	170 cm – 66.9 in.	170 cm – 66.9 in.	170 cm – 66.9 in.	177 cm – 69.6 in.	

■ Length of rolls

Standard format length	40 lm – 43.7 yds	40 lm – 43.7 yds	40 lm – 43.7 yds	40 lm – 43.7 yds	
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■ Physical properties

Tensile strength (warp/weft)	330/220 daN/5 cm	160/170 daN/5 cm	160/170 daN/5 cm	280/280 daN/5 cm	EN ISO 1421
Tear strength (warp/weft)	45/25 daN	11/13 daN	11/13 daN	30/28 daN	DIN 53.363

■ Flame retardancy

Rating	B1 /DIN 4102-1 Schwerbrennbar-Q1-Tr1 /ONORM A3800-1 Class 2 /UNI 9177-87 VKF 5.2 /SN 198898 BS 5867 Method 1 and 2 /NFPA 701 Class A /ASTME 84	B1 /DIN 4102-1 Method 2 /NFPA 701	B1 /DIN 4102-1 Method 2 /NFPA 701	B1 /DIN 4102-1 BS 7837 CAN ULCS109 Schwerbrennbar-Q1-Tr1 /ONORM A3800-1 Classe 1 /UNI 9177-87 M2 /UNE 23.727-90 VKF 5.3 /SN 198898 1530.3 /AS/NZS G1 /GOST 30244-94 Method 2 /NFPA 701 CSFMT19	EN 13501-1
Euroclass	B-s2,d0	B-s2,d0	B-s2,d0	B-s2,d0	EN 13501-1

■ Management systems

Quality					ISO 9001
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■ Certifications, labels, warranties, recycling



With **S+** Serge Ferrari goes further than the standards...
(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
- Document and photo libraries: www.sergeferrari.com

The above technical data represent average values subject to 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.