

SOLTIS[®] Advanced

SOLTIS 99-1 - SOLTIS 99-AS - SOLTIS 99-Activ

Micro-ventilated textiles for indoor solar protection in sensitive environments

Main applications: Internal blinds
Internal sunshades for conservatories

Unique technical properties



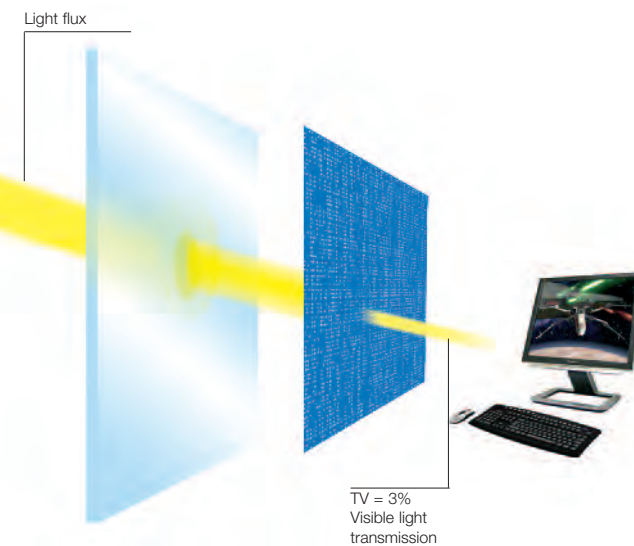
Meeting room

Fabrics in the new Soltis[®] Advanced range take full advantage of latest innovations developed by Ferrari's R&D department. They have specific characteristics for responding to the specific problems of the most demanding environments.

- **Soltis[®] 99-1**: an openness of only 1% for areas requiring enhanced visual comfort,
- **Soltis[®] 99-AS**: antistatic treatment for industries using sensitive equipment,
- **Soltis[®] 99-Activ**: bactericide treatment for health and other facilities, where health safety is a priority.

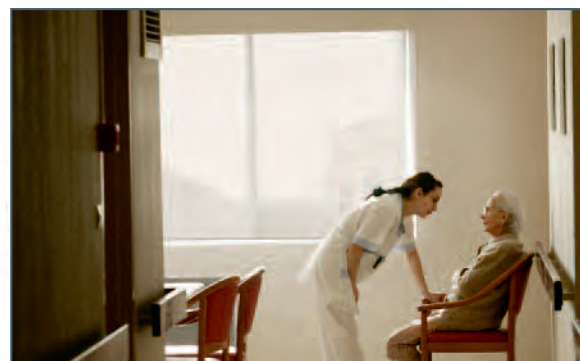
Controlled brightness, enhanced visual comfort

Example of data values for colour 99-1-2115 (as per Standard EN 14501 with type C insulating double-glazing)



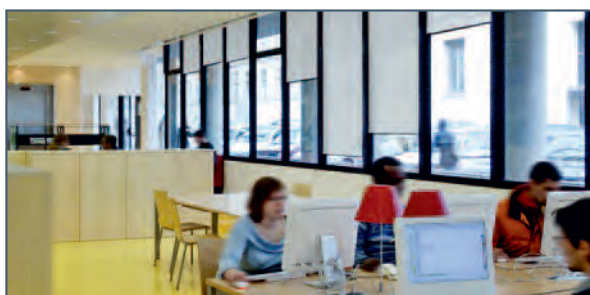
The carefully balanced weave openings in the Soltis[®] Advanced range fabrics provide optimum visual comfort inside buildings by skilfully controlling the light flux.

Yet, these fabrics continue to ensure natural light transmittance and outward visibility.



Medical healthcare centre

Exceptional thermal protection



Media library

Internally installed conventional textiles provide solar factors that often exceed 40%.

Combined with type C double-glazing, Soltis[®] Advanced textiles can obtain a solar factor of only 35%.

Solar Protection



Solar Protection

SOLTIS[®] Advanced

SOLTIS 99-1 - SOLTIS 99-AS - SOLTIS 99-Activ

Technical properties	Soltis [®] 99-1	Soltis [®] 99-AS	Soltis [®] 99-Activ	Standards
Weight	290 g/sqm	290 g/sqm	290 g/sqm	EN ISO 2286-2
Thickness	0.32 mm	0.32 mm	0.32 mm	
Roll width	177 cm 267 cm	177 cm	177 cm	
Tensile strength (warp/weft)	160/170 daN / 5 cm	160/170 daN / 5 cm	160/170 daN / 5 cm	EN ISO 1421
Tear strength (warp/weft)	11/13 daN	11/13 daN	11/13 daN	DIN 53.363
Surface resistivity	-	< 10 ⁸ Ω/sq	-	CEI 690043 / ASTM D 257
Bactericide treatment				
• Staphylococcus aureus (gram+ bacterium)	-	-	99% of bacteria eliminated	ASTM E2180
• Escherichia coli (gram- bacterium)	-	-		
Fungistatic treatment	degree 0, excellent	degree 0, excellent	degree 0, excellent	degree 0, excellent
Flame retardancy	B1 /DIN 4102-1	M1 /NFP 92-507 • Method 1 and 2 /NFPA 701 • CSFM T19 CLASS A /ASTM E84 • B1 /DIN 4102-1 • BS 7837 • BS 5867 B1 /ONORM A 3800-1 • M1 /UNE 23.727 • VKF 5.2 /SN 198898 AS /NZS 1530.3 • G1 /GOST 30244-94		
Euroclass	B-s2,d0	B-s2,d0	B-s2,d0	EN 13501-1
Roll lengths 177 cm wide 267 cm wide	50 ml 40 ml	50 ml -	50 ml -	
Quality management system				ISO 9001

The technical data shown here are average values, given for information only, and may be modified.

www.soltis-textiles.com

Downloading, technical data, references, photos, description of tenders, and much more. All in real time.



Sustainable development

Ferrari[®] development is based on strict adherence to good safety and environmental practices. This includes an understanding of Life Cycle Analysis (LCA), selection of the best materials, and eco-design. The Company obtained its first ISO 14001 certification in 2003.

100% recyclable

Ferrari[®] developed the Taxyloop[®] technology specifically for the recycling of composite PVC membranes and textiles. Through the management of its end-of-life products Ferrari[®] is committed to sustainable development.
www.taxyloop.com

Specification Service

The Ferrari[®] specification service is available to inform you, advise you and suggest innovative solutions for your specific requirements.

To detail your project, fill in a form under:
www.soltis-textiles.com

www.ferrari-architecture.com

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FERRARI
architecture



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Non-certified photos, considered as examples.
Photos: Ferrari SA - G. Ayraud

SOLTIS® 99-1

99-1-2048

3048*

99-1-2115

SOLTIS® 99-AS

99-1-2051

Alu/White (back)

3051*

99-AS-50008

SOLTIS® 99-Activ

99-AS-50009

99-Activ-50010

* = Laize 267 cm

SOLTIS® 99-1

■ Dual thermal and visual performance

With an opening coefficient of only 1%, Soltis® 99-1 offers greater control of the light flux (TV=3%). In addition to enhanced visual comfort, Soltis® 99-1's White/Black reference ensures excellent thermal performance:

- the highly reflective white face (RS=63%) protects occupants from heat ($g_{tot}=0.36$),
- the strong contrast of the black face guarantees excellent outward visibility.



Media centre

■ Acoustic comfort maintained



Institutional catering facility

The micro-openings in Soltis® 99-1 fabrics contribute to the acoustic comfort in buildings.

They encourage acoustic absorption, whilst preserving the aesthetics of the premises*.

* Our teams are at your disposal for further information.

SOLTIS® 99-AS

■ Unique anti-static solar protection

Static electricity causes harmful interference in many environments in the plastics, car, electronics, computer industries, airport control towers, etc. The simple friction of a moving blind can generate an additional electrostatic charge which is why we have specifically developed Soltis® 99-AS fabrics to curtail the effects of this physical phenomenon.

Soltis® 99-AS benefits of a specific anti-static treatment, which:

- reduces significantly generation of static electricity
- contributes efficiently to its dissipation.



Research laboratory

SOLTIS® 99-Activ

■ Eliminating 99.9% of bacteria



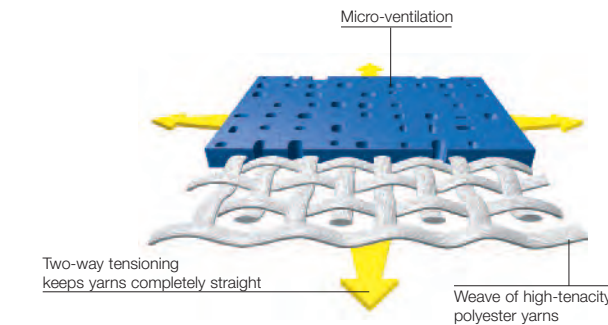
Centre hospitalier

Nosocomial infections are recognised as a major public health problem. Soltis® 99-Activ textiles have been developed to contribute significantly to maintaining healthy environments in the most sensitive facilities.

Thanks to an innovative bactericide treatment, Soltis® 99-Activ fabric prevents proliferation of bacteria, 99.9% of which can be effectively eliminated.

Soltis® 99-Activ thus plays a key part in preventing infectious diseases and meets the most stringent requirements in terms of health safety and comfort.

■ The exclusive Précontraint® Ferrari® technology



Made using the exclusive patented Précontraint® Ferrari® technology, Soltis® textiles are maintained under tension throughout the whole manufacturing cycle.

This gives very considerable dimensional stability. Textiles keep their shape, both during installation and when in use. Soltis® textiles combine strength, thinness and light weight.

■ Solar and light properties (according to EN 14501)

References	TS	RS	AS	TV n-h	TV n-n	g_{tot}^1	References	TS	RS	AS	TV n-h	TV n-n	g_{tot}^1
SOLTIS® 99-1													
A/B 99-1-2048 99-1-3048	5	46	49	4	1	0.41	A* 99-1-2115	4	63	33	3	1	0.36
A 99-1-2051 99-1-3051	8	46	46	7	1	0.41	B* 99-1-2115	4	7	89	3	1	0.53
B 99-1-2051 99-1-3051	8	66	26	7	1	0.35							

SOLTIS® 99-AS													
A 99-AS-50008	13	46	41	13	3	0.42	A 99-AS-50009	8	40	52	6	2	0.43
B 99-AS-50008	13	60	27	13	3	0.37	B 99-AS-50009	8	44	48	6	2	0.42

SOLTIS® 99-Activ													
A 99-Activ-50010	19	54	27	16	2	0.39	B 99-Activ-50010	20	63	17	16	2	0.37

TS: Solar Transmission as a %
 RS: Solar Reflection as a %
 AS: Solar Absorption as a %
 TS + RS + AS = 100% of the incident energy

TV-n-h: Normal-hemispherical Light Transmission as a %
 TV-n-n: Normal-normal Light Transmission as a %

g_{ext}^1 : External solar factor
 g_{int}^1 : Internal solar factor
 C type glazing: insulating, slightly emissive double glazing in position 3 (4 + 16 + 4; Argon filled).

A: Aluminum side exposed to the sun
 B: Colored side exposed to the sun
 A*: White side exposed to sun
 B*: Black side exposed to sun

■ SOLTIS® Advanced Technical Advantages

SOLTIS® 99-1 Opening 1%	SOLTIS® 99-AS Anti-static	SOLTIS® 99-Activ Bactericide	 Thermal comfort	 Visual comfort
 Visibility toward the outside	 Tear resistance	 Won't sag	 Fungistatic treatment	 Space-saving
 Long life	 Easy maintenance	 Flame retardant	 100% recyclable textile	 Safety textile

SOLTIS® 99-1
SOLTIS® 99-AS



TEXYLOOP