Technical Properties

Soltis B92
- Weight: 650 g/m²
- Thickness: 0.60 mm
- Width: 170 cm
- Length of rolls: 40 lm

Soltis B99
- Weight: 540 g/m²
- Thickness: 0.47 mm
- Width: 170 cm
- Length of rolls: 40 lm

Soltis B990
- Weight: 650 g/m²
- Thickness: 0.53 mm
- Width: 170 cm
- Length of rolls: 40 lm

Soltis B702
- Weight: 750 g/m²
- Thickness: 0.60 mm
- Width: 180 cm
- Length of rolls: 40 lm

Standards
- EN ISO 2286-2
- EN ISO 1421
- DIN 53.363
- UNI 9177-87
- BS 5867
- Method 1 and 2
- NFPA 701
- B1/DIN 4102-1
- Schwerbrennbar-Q1-Tr1/ONORM A 3800-1
- Classe 1/UNI 9177-87
- VKF 5.2/SN 198898
- BS 7837
- CAN ULCS109
- M2/UNE 23.727-90
- VKF 5.3/SN 198898
- 1530.3/AS/NZS
- G1/GOST 30244-94
- Method 2/NFPA 701
- CSFM T19
- Euroclass B-s2,d0/B-s2,d0/B-s2,d0/B-s2,d0/EN 13501-1

Management Systems
- ISO 9001

Certifications, Labels, Guarantees, Recycling
- The technical data above are averaged values with a +/- 5% tolerance.
- The buyer of our products is fully responsible for their application and transformation with respect to 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 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.

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

High-performance screens
- Soltis B92
  - No detectable transmission of visible light, infrared or UV rays
  - Resistance to climatic damage
- Soltis B702
  - Thermal comfort and darkening
  - White face reflects heat
  - Black face darkens room
- Soltis B99 and B990
  - Interior applications only
  - Lightweight and thin for easy, discreet integration

Colour synergy
- Colours coordinated with other Serge Ferrari Building ranges
- Perfect building harmony
- New white/white version: Soltis B990
  - Combining thermal comfort and design

Choice of darkening level
- A solution suited to your needs:
  - Total black-out: Soltis B92
    - Opaque up to 100 000 lux
    - Conservation of works of art, X-ray work, photography, etc...
  - Darkening: Soltis B99, B990 and B702
    - Opaque up to 1000 lux
    - Projection or meeting areas, rest rooms, laboratories, etc...

Solar energy
- Darkened area
- Window
- AS: Absorption
- RS: Reflection
- AS + RS = 100% of incident solar energy
**Technical properties**

<table>
<thead>
<tr>
<th>Brand</th>
<th>Weight (g/m²)</th>
<th>Thickness (mm)</th>
<th>Width (cm)</th>
<th>Length of rolls</th>
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<tr>
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<td>Soltis B99</td>
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<td>40</td>
</tr>
<tr>
<td>Soltis B990</td>
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<td>170</td>
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<td>Soltis B702</td>
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<td>180</td>
<td>40</td>
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</table>

**Standards**

- EN ISO 2286-2
- EN ISO 1421
- DIN 53.363
- DIN 4102-1
- UNI 9177-87
- VKF 5.2
- BS 7837
- CAN ULCS109
- UNI 9177-87
- VKF 5.2
- SN 198898
- BS 5867
- NFPA 701
- ASTM E84
- DIN 4102-1
- NFPA 701
- DIN 4102-1
- NFPA 701
- BS 7837
- UNI 9177-87
- VKF 5.2
- SN 198898
- 1530.3
- AS/NZS
- G1
- GOST 30244-94
- NFPA 701
- ASTM E84
- DIN 4102-1
- NFPA 701
- BS 7837
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- UNI 9177-87
- VKF 5.2
- SN 198898
- 1530.3
- AS/NZS
- G1
- GOST 30244-94
- NFPA 701

**Main features**

- Dim out or opaque
- Efficient thermal protection
- High strength
- Lightweight, durable and 100% recyclable
- New 2-face white version (B990)

**Applications**

- Facade blinds (B92, B702)
- Indoor blinds

**Choice of darkening level**

A solution suited to your needs:

- **Total black-out:** Soltis B92
  - opaque up to 100,000 lux
  - conservation of works of art, X-ray work, photography, etc.
- **Darkening:** Soltis B99, B990 and B702
  - opaque up to 1000 lux
  - projection or meeting areas, rest rooms, laboratories, etc.

**High-performance screens**

- **Soltis B92**
  - no detectable transmission of visible light, infrared or UV rays
  - resistance to climatic damage
- **Soltis B702**
  - thermal comfort and darkening
  - white face reflects heat
  - black face darkens room
- **Soltis B99 and B990**
  - interior applications only
  - lightweight and thin for easy, discreet integration

**Colour synergy**

- Colours coordinated with other Serge Ferrari Building ranges
- Perfect building harmony
- **New white / white version:** Soltis B990
  - Combining thermal comfort and design
**Benefits**

- No material deformation during installation or usage
- No elongation, tear resistant
- Long-term strength and aesthetic quality
- Thinness
- Guaranteed aesthetics
- Compactness, easy rolling

**Strength characteristics**

- Exceptional dimensional stability
- Long-term strength
- Greater coating thickness on top of yarns
- Exceptional flatness

**Exclusive Précontraint Serge Ferrari® technology**

Patented worldwide, Précontraint Serge Ferrari® technology involves keeping the composite under tension throughout the manufacturing cycle.

**High-tenacity polyester base cloth**

**Grey screening layer** (Soltis B99, B92) or **white** (Soltis B990)

**Two-way tensioning** keeps yarns completely straight

**Micro-ventilation**

- The French “NF Toiles” label guarantees that Soltis B92 conserves a high level of quality and uniformity.
- Certified references meet thermo-optical, strength and durability requirements stipulated for the “NF Toiles” label.

**Soltis B92 materials carry the “NF Toiles” label**

**Internal applications**

- CSTB TOILES

**Solar and light properties (EN 14501)**

<table>
<thead>
<tr>
<th>Reference</th>
<th>RS AS g tot</th>
<th>i</th>
<th>g tot</th>
<th>e</th>
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<td>B990-50360</td>
<td>69 31 0.34</td>
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<td>B92-1043</td>
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<tr>
<td>B92-VERSO</td>
<td>29 71 0.46</td>
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</tbody>
</table>

**Reference RS AS g tot**

<table>
<thead>
<tr>
<th>Reference</th>
<th>i</th>
<th>g tot</th>
<th>e gtot</th>
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<tbody>
<tr>
<td>B702-455</td>
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<tr>
<td>B702-455</td>
<td>6 94 0.05</td>
<td>B*</td>
<td></td>
</tr>
</tbody>
</table>

**Type «C» glazing: insulating, slightly emissive double glazing** in position 3 (4 + 16 + 4; argon-filled - g=0.59 - U=1.2)

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

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

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

**B**: Screening layer exposed to the sun

**Soltis B92’s ECO Identity profile**

**RENEWABLE CONTENTS**

**R**: no bio-sourced constituent

**R+1**: substance of very high concern (SVHC *) < 0.1%

(substances authorised by REACH but listed by the European agency)

**R+2**: A+ health labelling classification

**INDOOR AIR QUALITY**

**ENVIRONMENTAL FOOTPRINT**

**R**: no assessment

**CIRCULAR ECONOMY**

**R+2**: effective recycling through Texyloop

Serge Ferrari assesses the health and environmental performance of its composite materials using 5 indicators.

Level

“R” represents the regulations or the basic offer without regulatory requirements. Higher levels represent voluntary advances that exceed regulations.

For more information: please ask for details.

*SVHC (Substance of Very High Concern)*
Benefits:
- No material deformation during installation or usage
- No elongation, tear resistant
- Long-term strength and aesthetic quality
- Thinness
- Guaranteed aesthetics
- Compactness, easy rolling

Strength characteristics:
- Exceptional dimensional stability
- Long-term strength
- Greater coating thickness on top of yarns
- Exceptional flatness

Exclusive Précontraint Serge Ferrari® technology:
- Patented worldwide, Précontraint Serge Ferrari® technology involves keeping the composite under tension throughout the manufacturing cycle.

Reference RS AS g \(_{tot}\) \(g_{em}\)
B99-50348 A 69 31 0.34
B99-50348 B 78 22 0.31

A*: White face exposed to the sun
B*: Black face exposed to the sun
A: Microperforated face exposed to the sun
B: Screening layer exposed to the sun

Solar and light properties (EN 14501)

<table>
<thead>
<tr>
<th>Reference</th>
<th>RS</th>
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<th>(g_{em})</th>
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<td>0.34</td>
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<td>75</td>
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<tr>
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</table>

RS: Solar Reflection (%)
AS: Solar Absorption (%)
\(g_{em}\): External Solar Factor
\(g_{tot}\): Internal Solar Factor
Type «C» glazing: insulating, slightly emissive double glazing in position 3 (4 + 16 + 4; argon-filled - \(g=0.59 - U=1.2\))
**Exclusive Précontraint Serge Ferrari® technology**

Patented worldwide, Précontraint Serge Ferrari® technology involves keeping the composite under tension throughout the manufacturing cycle.

**Benefits**

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- Long-term strength and aesthetic quality
- Thinness
- Guaranteed aesthetics
- Compactness, easy rolling

**Strength characteristics**

- Exceptional dimensional stability
- Long-term strength
- Greater coating thickness on top of yarns
- Exceptional flatness

*Benefits observed for normal product usage.*

**Soltis B92 materials carry the “NF Toiles” label**

- The French "NF Toiles" label guarantees that Soltis B92 conserves a high level of quality and uniformity.
- Certified references meet thermo-optical, strength and durability requirements stipulated for the “NF Toiles” label.

**ECO IDentity, health and environmental performance**

Serge Ferrari assesses the health and environmental performance of its composite materials using 5 indicators. Level "R" represents the regulations or the basic offer without regulatory requirements. Higher levels represent voluntary advances that exceed regulations.

For more information: please ask for details.

**Soltis B92’s ECO Identity profile**

- **RENEWABLE CONTENTS**
  - R: no bio-sourced constituent
  - R+1: substance of very high concern (SVHC *) < 0.1%
    (substances authorised by REACH but listed by the European agency)
  - R+2: A+ health labelling classification
  - R+3: effective recycling through Texyloop

- **HEALTH PRECAUTION**
  - R: no assessment

- **INDOOR AIR QUALITY**
  - R+2: A+ health labelling classification

- **ENVIRONMENTAL FOOTPRINT**
  - R: no assessment

- **CIRCULAR ECONOMY**
  - R+2: effective recycling through Texyloop

SVHC (Substance of Very High Concern)

ECO IDentity complies with ISO 14021 environmental communication standard:

- exact
- verifiable
- pertinent
- not misleading

The colours and textures represented in this document are provided as a reference only.
<table>
<thead>
<tr>
<th>Technical properties</th>
<th>Soltis B92</th>
<th>Soltis B99</th>
<th>Soltis B990</th>
<th>Soltis B702</th>
<th>Standards</th>
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<td><strong>Length of rolls</strong></td>
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</tbody>
</table>

Motorized retractable exterior screen absorb heat, reduce glare and block the sun, provide rain protection, reduce wind speed to create your ideal ambiance. Motorized retractable screen provide a comfortable interior by blocking solar rays, which protects your furnishings, reduces glare and also saves money on cooling costs. Motorized exterior screens can also be used in places such as windows, doors, and especially larger openings in porch to create a pleasant and pest-free outdoor area to enjoy.

We use the best material available with quality fabrication using High Frequency (HF) Radio Frequency (RF) welding is the joining of Ferrari textile materials by supplying HF energy in the form of an electromagnetic field (27.12 MHz) and pressure to the material surfaces to be joined. A generator produces the energy. The tool used to supply the energy is called an electrode. The electrical energy causes the molecules within the material to start moving, which generates heat that causes the material to soften and thereby fuse together. No outside heat is applied. It is instead generated within the material. After cooling the welded surface under maintained pressure, the material is fused and a weld has been created. The weld seam can be at least as strong as the surrounding material – or even stronger. Contact us at [http://flshutters.com/](http://flshutters.com/)

Retractable solar screen, exterior screen and exterior shade.