Designed for use in exterior applications like awnings, shade-sails, blinds, canopies and lightweight tensile structures, Soltis® and Précontraint® 502 exceed performance criteria around the world. Specifiers and building professionals alike have come to rely on Ferrari® textiles for the following reasons:

- Innovative treatments for higher energy performance
- Greenguard® Certification: Indoor Air Quality™ and Children & School™
- Excellent long-term performance in all climates
- unsurpassed dimensional stability
- New color range coordinated with other Ferrari® products
- Lightweight and thin textiles for a longer drop from smaller cases
- 100 % recyclable
Reducing energy costs

Soltis® textiles have a micro-ventilation system that regulates the sun’s heating effects. Placed on the outside of windows they absorb and reflect back up to 97% of the heat contained in the sun’s rays.

LowE: high energy performance

Soltis® LowE references assist in increasing interior comfort in buildings by re-emitting less heat. The fabric thereby forms an additional passive cooling source, reducing air-conditioning energy consumption.

Soltis® textiles make a strong contribution to reduced energy expenditure, allowing better cost control of the building.

Soltis® - Maintain the view

Soltis® textiles preserve privacy and visual comfort inside while providing visibility to the outside. They offer natural lighting that promotes well-being for occupants, while eliminating glare.

Offering a variety of open factors - Soltis® comes in 14%, 5%, 3% & Opaque for total light control.

Précontraint® 502: a waterproof and resistant sun protection

Précontraint® 502 textiles are specifically designed for weather protection, offering a 100% waterproof finish that will protect you against the elements. New formulations ensure high-performance thermal protection systems.

Thanks to the Ferrari® Précontraint® technology, the Précontraint® 502 range offers many advantages: dimensional stability; unmatched strength; high UV resistance due to rigorous pigment and surface treatments; ease of maintenance with a consistently smooth appearance.

Coordinated color range

The new Précontraint® 502 range of colors is very closely coordinated with other Ferrari® product ranges and facilitates the harmonization of awnings to interior solar blinds, exterior canopy structures, facades and other textile coverings.

The adaptation to current and future color trends and the addition of metallic finishes and interferential colors bestow enduring individual traits to every project.
The exclusive **Précontraint® Ferrari®** technology

Made using the exclusive patented Précontraint® Ferrari® technology, Soltis® and Précontraint® 502 textiles are maintained under tension throughout the whole manufacturing cycle.

The result of that is exceptional dimensional stability • perfect tensioning and finish • shape that is retained at installation and over time • long-lasting mechanical resistance • substantially extended lifespan • exceptional flexibility that ensures architectural freedom and ease of fitting • combination of strength in a thin profile and lightweight.

### Technical features

![Thermal comfort](image)

Low emmissivity

Won’t sag

Visual comfort

Dimensional stability

U.V. resistant

Tear resistance

Flame retardant

Fungistatic treatment

Safety textile

Creative freedom

100% recyclable textile

### Technical properties

<table>
<thead>
<tr>
<th>Soltis® 86</th>
<th>Soltis® 92</th>
<th>Soltis® 93</th>
<th>Précontraint®502</th>
<th>Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>380 g/m² / 11.2 oz/sq.yd</td>
<td>420 g/m² / 12.4 oz/sq.yd</td>
<td>420 g/m² / 12.4 oz/sq.yd</td>
<td>590 g/m² / 17.4 oz/sq.yd</td>
</tr>
<tr>
<td>Width</td>
<td>177 cm - 267 cm 69.6 in - 105.1 in</td>
<td>177 cm - 267 cm 69.6 in - 105.1 in</td>
<td>267 cm / 105.1 in</td>
<td>267 cm / 105.1 in</td>
</tr>
<tr>
<td>Tensile strength (warp/weft)</td>
<td>230/160 daN/5 cm 517/360 lbs/2 in</td>
<td>310/210 daN/5 cm 697/472 lbs/2 in</td>
<td>300/240 daN/5 cm 674/539 lbs/2 in</td>
<td>250/250 daN/5 cm 562/562 lbs/2 in</td>
</tr>
<tr>
<td>Flame retardancy</td>
<td><strong>TEST 1/NFPA 701 CLASS A/ASTM E84</strong> M1/NFPA92-507 B1/DIN 4102-1 BS 7837 BS 5867 AS/NZS 1530.3</td>
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</tr>
<tr>
<td>Euroclass</td>
<td>B-s2,d0</td>
<td>B-s2,d0</td>
<td>B-s2,d0</td>
<td>EN 13501-1</td>
</tr>
</tbody>
</table>

The technical data shown here are average values, given for information only, and may be modified.
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://fshutters.com/](http://fshutters.com/)

Retractable solar screen, exterior screen and exterior shade.