Technical properties Soltis 86 Standards

Weight 380 g/m² EN ISO 2286-2
Thickness 0.43 mm
Width 177 cm - 267 cm
Length of rolls
Standard format length in 177 cm 50 lm
Standard format length in 267 cm 40 lm

Physical properties
Tensile strength (warp/weft) 230/160 daN/5 cm EN ISO 1421
Tear strength (warp/weft) 45/20 daN DIN 53.363
Fungistatic treatment Degree 0, excellent EN ISO 846-A

Flame retardancy
Rating
B1/ DIN 4102-1 • BS 7837 • BS 5867 • SCHWERBRENNBAR -Q1-TR1
CLASSE1/ UNI 9177-87 • M1/ UNE 23.727-90 • VKF 5.2 • SN 198898 • 1530.3/ AS/NZS • G1/ GOST 30244-94 • METHOD 1/NFPA 701 • CSFM • CLASSA/ ASTM E84
Euroclass
B-s2,d0/ EN 13501-1

Management systems
for Quality ISO 9001
for the Environment ISO 14001

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 their transformation with regard to any possible third party. The buyer of our products is responsible for their implementation and installation according to the standards, workmanship 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
• ACV and FDES (Health and Environmental Datasheet) 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
• Document and photo libraries: www.sergeferrari.com

Matchless transparency
Soltis 86's micro-ventilated texture ensures:
• excellent visual contact with the exterior: the view is not hidden,
• visual comfort appreciated in many architectural situations.

Harmonised ranges
All Soltis 86 colours are coordinated with Soltis 92 to:
• coordinate all facades of a building,
• satisfy visual comfort requirements for each facade orientation,
• regulate thermal protection to provide energy savings.

Thermal protection and light control
Soltis 86 offers a mesh opening, ideal for combining:
• efficient solar protection,
• sufficient natural light contribution to ensure occupier well-being.
Soltis 86 therefore plays a full part in:
• building thermal control,
• creating pleasant, appropriate light environments.

Installed externally, Soltis 86 blocks up to 88% of the solar radiation

Seamless large dimensions possible

Colour harmony for combining blinds, textile facades and permanent awnings

Solar energy
AS = 78%
Solar Absorption
RS = 10%
Solar Reflection
TS = 12%
Solar Transmission
g tot = \frac{TV}{0.12}
External Solar Factor
TV = 11%
Visible light transmission

Given values for colour shade 86-2043 (according to EN 14501 with type “C” double glazing insulating materials)

APPLICATIONS
• Facade blinds
• Conservatory and glassroof blinds
• Shadesails

MAIN FEATURES
• Perfect compromise between thermal protection and visual comfort
• Excellent outward visibility
• Weather and UV resistance
• Lightweight, durable and 100% recyclable
**Technical properties**

**Soltis 86 Standards**

- Weight: 380 g/m² - EN ISO 2286-2
- Thickness: 0.43 mm
- Width: 177 cm - 267 cm
- Length of rolls:
  - Standard format length in 177 cm: 50 lm
  - Standard format length in 267 cm: 40 lm

**Physical properties**

- Tensile strength (warp/weft): 230/160 daN/5 cm - EN ISO 1421
- Tear strength (warp/weft): 45/20 daN - DIN 53.363
- Fungistatic treatment: Degree 0, excellent - EN ISO 846-A

**Flame retardancy**

- Rating:
  - B1 - DIN 4102-1 • BS 7837 • BS 5867 • SCHWERBRENNBAR - Q1 - TR1
  - CLASSE1 - UNI 9177-87 • M1 - UNE 23.727-90 • VKF 5.2 • SN 198898 • 1530.3/AS • NZS • G1 - GOST 30244-94 • METHOD 1 - NFPA 701 • CSFM T19 • CLASSA - ASTM E84

- Euroclass:
  - B-s2,d0 - EN 13501-1

**Management systems**

- ISO 9001 for Quality
- ISO 14001 for the Environment

**Certifications, labels, guarantees, recycling**

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**Main features**

- Perfect compromise between thermal protection and visual comfort
- Excellent outward visibility
- Weather and UV resistance
- Lightweight, durable and 100% recyclable

**Applications**

- Facade blinds
- Conservatory and glassroof blinds
- Shadesails

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**Harmonised ranges**

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- satisfy visual comfort requirements for each facade orientation,
- regulate thermal protection to provide energy savings.

**Installed externally,** Soltis 86 blocks up to 88% of the solar radiation.

Seamless large dimensions possible.

Colour harmony for combining blinds, textile facades and permanent awnings.

Custom fabricated Soltis retractable screen.

**Solar energy**

- Solar Absorption (AS) = 78%
- Solar Transmission (TS) = 12%
- Solar Reflection (RS) = 10%
- Solar Transmission (TV) = 11%
- External Solar Factor (\( g_e \)) = 0.12

**Given values for colour shade 86-2043 (according to EN 14501 with type “C” double glazing insulating materials)**

- g_e,TV = 0.12
- g_e,TS = 0.12

**Applications**

- Facade blinds
- Conservatory and glassroof blinds
- Shadesails

**Main features**

- Perfect compromise between thermal protection and visual comfort
- Excellent outward visibility
- Weather and UV resistance
- Lightweight, durable and 100% recyclable
Solar and light properties (EN 14501)

**Benefits**
- No material deformation during installation or usage
- No elongation, tear resistant
- Long-term strength and aesthetic quality
- Thinness
- Smooth finish, easy maintenance
- Compactness, easy rolling

**Strength characteristics**
- Exceptional dimensional stability
- Long-term strength
- Greater coating thickness at the top of the yarns
- Exceptional flatness
- Two-way tensioning keeps yarns completely straight
- Micro-ventilation
- Base cloth made of high tenacity polyester thread

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

**NF Toiles certification**
- The French “NF Toiles” label guarantees that Soltis 86 maintain a high level of quality and homogeneity.
- Certified references meet thermo-optical, strength and durability requirements stipulated for the “NF Toiles” label.
- Certification application pending for new colours (solar and light properties quoted provisionally).

**Colours**

- Intense turquoise 86-50271
- Moss green 86-2158
- Caramel 86-50261
- Body language
  - Champagne 86-2175
  - Sandy beige 86-2135*
- Emerging colours
  - Concrete 86-2167
  - Boulder 86-2171*
  - White 86-2044*
  - Alu/Alu 86-2048
  - Alu/Oat 86-2046*
- Design illusion
  - Bamboo 86-50333
  - Buttercup 86-2166
  - Orange 86-8204
  - Plum 86-50336

* Also available in 267 cm width

The colours and textures represented in this document are provided as a reference only.
Evolving with time

Bronze 86-2043*
Intense turquoise 86-50271
Caramel 86-50261

Body language

Cocoa 86-2148
Sandy beige 86-2135*
Pepper 86-2012*
Champagne 86-2175

Distinction

Navy 86-50342
Midnight blue 86-2161
Dark teal 86-50264

Red 86-8255
Black 86-2053*
Anthracite 86-2047*

Beaten-metal 86-2045*
Alu/Anthracite 86-2068

---

TS: Solar Transmission (%)
RS: Solar Reflection (%)
AS: Solar Absorption (%)
TS +/ RS +/ AS = 100% of incident energy

gtot: External solar factor

gtot i: Internal Solar Factor

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

TV n-h: Normal-hemispherical visible light transmission (%)
TV n-n: Normal-normal visible light transmission (%)

A: Aluminium face exposed to the sun
B: Coloured face exposed to the sun

Solar and light properties (EN 14501)

Benefits
• No material deformation during installation or usage
• No elongation, tear resistant
• Long-term strength and aesthetic quality
• Thinness
• Smooth finish, easy maintenance
• Compactness, easy rolling

Strength characteristics
• Exceptional dimensional stability
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### Strength characteristics
- Exceptional dimensional stability
- Long-term strength
- Greater coating thickness at the top of the yarns
- Exceptional flatness

### Benefits
- No material deformation during installation or usage
- No elongation, tear resistant
- Long-term strength and aesthetic quality
- Thinness
- Smooth finish, easy maintenance
- Compactness, easy rolling

### NF Toiles certification
- The French "NF Toiles" label guarantees that Soltis 86 maintain a high level of quality and homogeneity.
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### Solar and light properties (EN 14501)

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</table>

A: Aluminium face exposed to the sun
B: Coloured face exposed to the sun

- **TS**: Solar Transmission [%]
- **RS**: Solar Reflection [%]
- **AS**: Solar Absorption [%]
- **TV**: External solar factor
- **AS**: Internal Solar Factor
- **\(g_{TV}^{n}\)**: Double glassing in position 3 (4 + 16 + 4: argon-filled)
- **TV n-h**: Normal-hemispherical visible light transmission [%]
- **TV n-n**: Normal-normal visible light transmission [%]

The colours and textures represented in this document are provided as a reference only.
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/

Retractable solar screen, exterior screen and exterior shade.