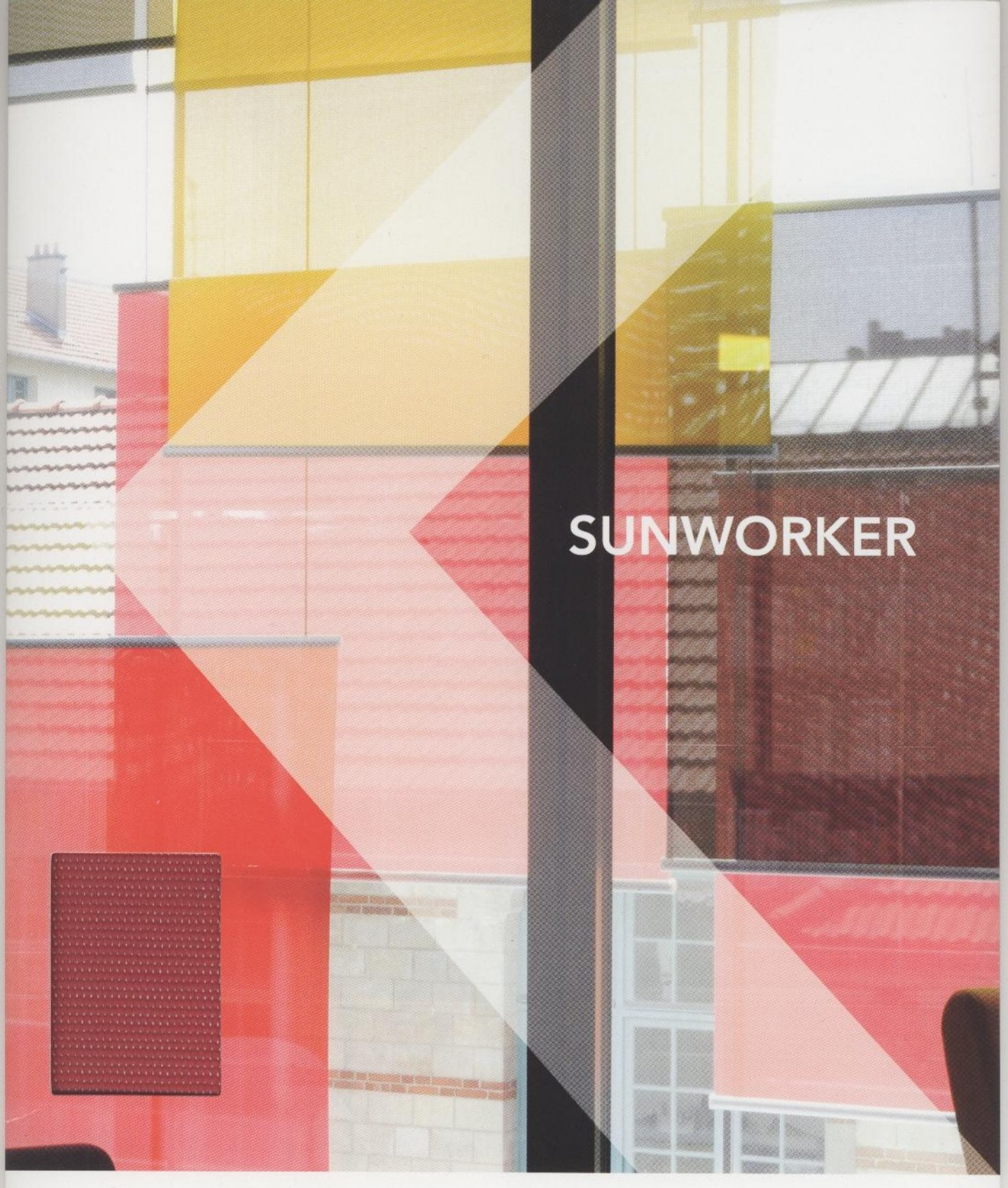


# SUNWORKER

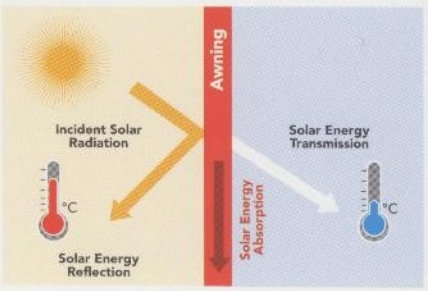
TECHNICAL TEXTILES
for solar protection

DICKSON®
solar protection

# SUNWORKER:
# An ultra high-tech fabric

## Absolute Heat Shield

SUNWORKER fabrics are fully in line with the drive towards sustainable development and energy savings. Thanks to its highly regular, perforated micro-structure, the fabric acts as a genuine heat filter. It repels up to 92% of the warmth of the sun's rays, thus avoiding any greenhouse effect and preventing buildings from overheating in summer. In winter, the process is reversed, thus maintaining heat within the building.




## Optimal Visual Comfort

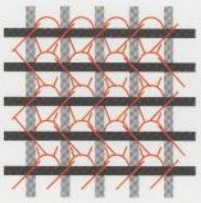
By choosing a SUNWORKER fabric, you can control the sun's glare while maintaining a clear view* towards the outside and still preserve your privacy... So you can see without being seen!

*except Sunworker Opaque and Cristal

## Mechanical Strength

RACHEL TRAMEUR HIGH RESISTANCE WEAVE by DICKSON

The "heart" of Sunworker is made up of a high-strength polyester core, while the distinctive Rachel Trameur-style weaving method used in its manufacture gives it outstanding resistance to bad weather. This technique allows the threads to move in relation to each other in order to spread, transmit and absorb mechanical energy in the event of tearing.



Behaviour under normal conditions

Behaviour under tearing

## Stay-true Colours & Easy Maintenance

The Lowick System blocks the capillarity effect so the fabric's absorption of water is very limited. Sunworker fabrics are therefore more durable and stand up to even the most extreme weather conditions. The pigments used allow the colours to keep all their brilliance under the effects of the sun's rays.

SYSTEM LOWICK

## Maximum Safety

All SUNWORKER fabric is guaranteed fire-retardant. As a result, it suits all types of projects: restaurants, hotels, shops, housing, commercial and public buildings, etc.

FIRE RETARDANT

Marguerite Yourcenar library - Paris

# SUNWORKER:
## Brilliant colours

To enable you to fully express your creativity, all Sunworker fabrics can be printed on

SWK
M525 Mint

SWK
M567 Green

SWK
M238 Blue

SWK
M228 Marine

SWK
M711 Champagne SWO SWC

SWK
M713 Sand

SWK
M709 Corn SWO SWC

SWK
M309 Yellow

SWK
M927 Red

SWK
M005 White SWO SWC

SWK
M710 Creme SWO SWC

SWK
M712 Beige SWO SWC

SWK
M654 Grey SWO SWM SWC

SWK
M653 Iron

SWK
M652 Silver SWO SWM SWC

SWK
M838 Burgundy

SWK
M392 Charcoal

SWK
M393 Bronze

SWK
M391 Black

Colours also available in Sunworker Metal

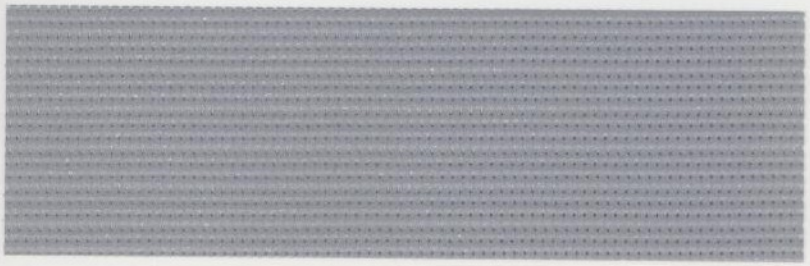
Colours also available in Sunworker Opaque

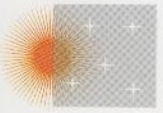
Colours also available in Sunworker Cristal

DICKSON®

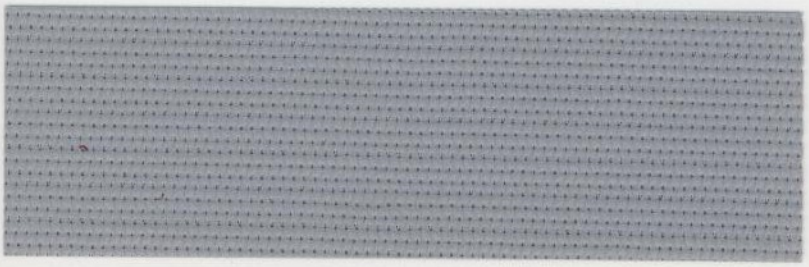
# SUNWORKER:
## Fabric for all types of needs

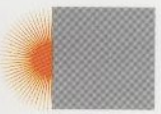
### SUNWORKER
Ordering code:
SWK + colour ref + width



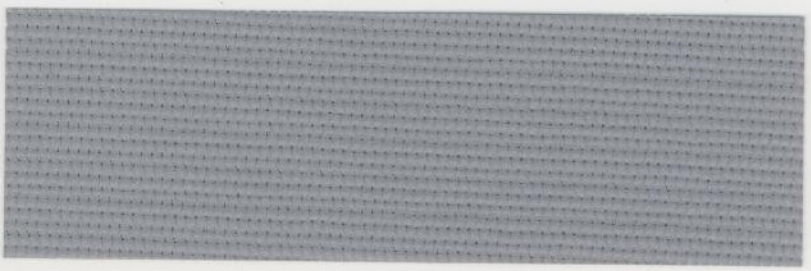


### SUNWORKER METAL
Ordering code:
SWM + colour ref + width

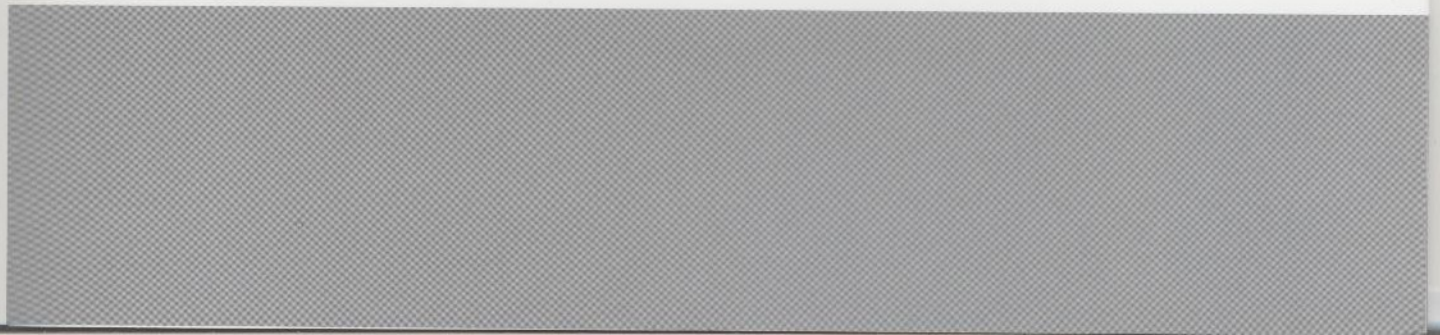




### SUNWORKER OPAQUE
**For a total darkness**
Ordering code: SWO + colour ref



### SUNWORKER CRISTAL
**A translucent fabric with maximum waterproof protection**
Ordering code: SWC + colour ref



# SUNWORKER:
## For all types of uses

| | Vertical roll-down awnings | Folding-arm awnings | Window and veranda awnings | Projection awnings | Shade sails & tensile structures | Pergolas | Vertical strips |
|---|---|---|---|---|---|---|---|
| **SUNWORKER and SUNWORKER METAL** | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| **SUNWORKER OPAQUE** | ✓ | | ✓ | ✓ | | | ✓ |
| **SUNWORKER CRISTAL** | ✓ | | ✓ | ✓ | ✓ | ✓ | |

## Technical Features

Conform to the RT 2012 requirements

| | Weight<br>NF EN ISO 2286-1 | Thickness<br>NF EN ISO 2286-3 | Tearing Strength In daN/5cm<br>DIN 53363 | Tensile Strength In daN/5cm<br>NF EN ISO 13934-1 | Acoustic Absorption<br>NF EN ISO 354 | Width / Roll length |
|---|---|---|---|---|---|---|
| **SUNWORKER and SUNWORKER METAL** | 330g/sqm | 0,40mm | Warp 43 – Weft 22 | Warp 220 – Weft 150 | Class E | 150cm/60m<br>300cm/30m |
| **SUNWORKER OPAQUE** | 470g/sqm | 0,45mm | Warp 50 – Weft 40 | Warp 250 – Weft 160 | Not rated | 145cm/30m |
| **SUNWORKER CRISTAL** | 455g/sqm | 0,50mm | Warp 58 – Weft 30 | Warp 265 – Weft 172 | Not rated | 137cm/30m |

**Fire Resistance**
M1 (NF P92503), B1 (DIN 4102), C1 (UNI 9176),
Classe 1 (UNE-EN 13773 :2003)
**Euroclass**
B s2 d0 (EN 13501-1)
**Guarantee** 5 years
**Temperature for use**
-30°C to +70°C / -22°F to 158°F
**Cleaning** soapy water

## THERMAL AND LIGHT PERFORMANCES

| Colour N° | | According to ISO9050 norm | | | | | | According to EN14501 norm | | | | | | Colour equivalents | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | gtot ext* | gtot int* | ST | SR | SA | VT | gtot ext* | gtot int* | Glare control | Night privacy | Visual contact with the outside | Daylight utilisation | NCS | RAL |
| SWK | M525 | 0,21 | 0,41 | 0,29 | 0,49 | 0,22 | 0,25 | 2 | 1 | 1 | 1 | 0 | 2 | S1020-G20Y | 6019 |
| | M567 | 0.10 | 0.53 | 0,09 | 0,09 | 0,82 | 0,07 | 3 | 0 | 1 | 1 | 2 | 1 | S6030-B50G | 6004 |
| | M238 | 0,15 | 0,44 | 0,20 | 0,38 | 0,42 | 0,08 | 2 | 1 | 3 | 2 | 2 | 1 | +/- S2050-R80B | +/- 5024 |
| | M228 | 0,14 | 0,50 | 0,13 | 0,21 | 0,66 | 0,05 | 3 | 0 | 3 | 2 | 2 | 1 | S6020-R60B | 5013 |
| | M711 | 0,15 | 0,41 | 0,21 | 0,50 | 0,29 | 0,18 | 2 | 1 | 1 | 2 | 1 | 2 | 1005-Y20R | +/- 1015 |
| | M713 | 0,15 | 0,42 | 0,21 | 0,38 | 0,41 | 0,18 | 3 | 1 | 1 | 1 | 2 | 2 | S2020-Y30R | 1001 |
| | M709 | 0,16 | 0,39 | 0,22 | 0,56 | 0,22 | 0,16 | 2 | 1 | 1 | 2 | 1 | 2 | S030-Y20R | +/- 1017 |
| | M309 | 0,22 | 0,42 | 0,31 | 0,45 | 0,24 | 0,27 | 2 | 1 | 1 | 2 | 0 | 2 | S0580-Y10R | 1018 |
| | M005 | 0,16 | 0,36 | 0,23 | 0,66 | 0,11 | 0,21 | 2 | 1 | 1 | 2 | 0 | 2 | S052-Y | +/- 9010 |
| | M710 | 0,17 | 0,38 | 0,25 | 0,57 | 0,18 | 0,23 | 2 | 1 | 1 | 2 | 1 | 2 | S1005-Y | +/- 1013 |
| | M712 | 0,15 | 0,42 | 0,20 | 0,47 | 0,33 | 0,16 | 2 | 1 | 0 | 1 | 1 | 2 | S2010-Y | +/- 7032 |
| | M654 | 0,11 | 0,41 | 0,14 | 0,47 | 0,39 | 0,11 | 3 | 1 | 1 | 2 | 1 | 1 | S1002-G | +/- 7047 |
| | M653 | 0,10 | 0,46 | 0,12 | 0,35 | 0,53 | 0,10 | 4 | 1 | 1 | 2 | 1 | 1 | S3005-R50B | 7045 |
| | M652 | 0,09 | 0,48 | 0,08 | 0,24 | 0,68 | 0,07 | 4 | 1 | 3 | 2 | 2 | 1 | S4502-B | +/- 7046 |
| | M927 | 0,20 | 0,47 | 0,27 | 0,31 | 0,42 | 0,09 | 3 | 1 | 3 | 2 | 2 | 1 | S2060-R | +/- 3027 |
| | M838 | 0,13 | 0,53 | 0,09 | 0,13 | 0,78 | 0,06 | 3 | 0 | 3 | 2 | 2 | 1 | S5030-R | 3004 |
| | M392 | 0,08 | 0,53 | 0,06 | 0,07 | 0,87 | 0,05 | 4 | 0 | 3 | 2 | 2 | 1 | S7502-B | +/- 7016 |
| | M393 | 0,09 | 0,53 | 0,07 | 0,08 | 0,85 | 0,06 | 4 | 0 | 3 | 2 | 2 | 1 | S6502-N | 8019 |
| | M391 | 0,09 | 0,54 | 0,06 | 0,05 | 0,89 | 0,06 | 4 | 0 | 3 | 2 | 2 | 1 | S8500-N | 7021 |
| SWM | M654** | 0,09 | 0,46 | 0,05 | 0,35 | 0,60 | 0,05 | 4 | 1 | 3 | 2 | 2 | 1 | S3502-B | 9022 |
| | M652** | 0,09 | 0,46 | 0,05 | 0,35 | 0,60 | 0,05 | 4 | 1 | 3 | 2 | 2 | 1 | S3502-B | 9022 |
| SWC | M711 | 0,14 | 0,41 | 0,17 | 0,50 | 0,34 | 0,14 | 3 | 1 | 1 | 2 | 1 | 2 | 1005-Y20R | +/- 1015 |
| | M709 | 0,16 | 0,40 | 0,22 | 0,54 | 0,24 | 0,15 | 2 | 1 | 1 | 2 | 1 | 2 | S030-Y20R | +/- 1017 |
| | M005 | 0,17 | 0,37 | 0,24 | 0,63 | 0,14 | 0,22 | 2 | 1 | 1 | 2 | 0 | 2 | S052-Y | +/- 9010 |
| | M710 | 0,17 | 0,39 | 0,23 | 0,57 | 0,20 | 0,22 | 2 | 1 | 1 | 2 | 0 | 2 | S1005-Y | +/- 1013 |
| | M712 | 0,13 | 0,42 | 0,14 | 0,47 | 0,39 | 0,11 | 3 | 1 | 1 | 2 | 1 | 2 | S2010-Y | +/- 7032 |
| | M654 | 0,13 | 0,43 | 0,15 | 0,44 | 0,42 | 0,12 | 3 | 1 | 1 | 2 | 1 | 2 | S1002-G | +/- 7047 |
| | M652 | 0,10 | 0,49 | 0,07 | 0,25 | 0,68 | 0,06 | 3 | 1 | 2 | 2 | 2 | 1 | S4502-B | +/- 7046 |
| SWO | M711 | 0,02 | 0,38 | 0,00 | 0,56 | 0,44 | 0,00 | | | | | | | | |
| | M709 | 0,02 | 0,36 | 0,00 | 0,62 | 0,38 | 0,00 | | | | | | | | |
| | M005 | 0,02 | 0,34 | 0,00 | 0,70 | 0,30 | 0,00 | | | | | | | | |
| | M710 | 0,02 | 0,35 | 0,00 | 0,66 | 0,34 | 0,00 | | | | | | | | |
| | M712 | 0,03 | 0,39 | 0,00 | 0,52 | 0,48 | 0,00 | | | | | | | | |
| | M654 | 0,03 | 0,40 | 0,00 | 0,50 | 0,50 | 0,00 | | | | | | | | |
| | M652 | 0,04 | 0,48 | 0,00 | 0,25 | 0,75 | 0,00 | | | | | | | | |

The EN14501 norm specifies classifications about the performances of solar protection devices to quantify thermal comfort on the one hand and visual comfort on the other hand. It is the document of reference for the evaluation of the solar protection devices at the european level.

Legend EN14501 norm

| Class | gtot* | Influence |
|---|---|---|
| 4 | gtot < 0,1 | Very good effect |
| 3 | 0,10 ≤ gtot < 0,15 | Good effect |
| 2 | 0,15 ≤ gtot < 0,35 | Mild effect |
| 1 | 0,35 ≤ gtot < 0,50 | Poor effect |
| 0 | gtot ≥ 0,50 | Very poor effect |

ST: Solar Transmission / SR: Solar Reflection
SA: Solar Absorption / VT: Visual Transmission

* gtot: solar factor of the combination of fabric + reference glazing C (double glazing 4 + 16 + 4 with a low emission on side 3, Argon filling ; U=1,2 W/m2K ; g=0,59)

** Values for the metal face exposed towards the exterior

DICKSON CONSTANT - RCS Rx Tg 381 347 970 - Crédit Photos : Atmosphère Photo - Edition Février 2011 SWK PLE GB11

10 rue des Châteaux
BP 109 - Z.I. La Pilaterie
59443 Wasquehal Cedex - France
www.dickson-constant.com
Tél. +33 (0)3 20 45 59 59
Fax +33 (0)3 20 45 59 00

Performance fabrics for
solar protection
outdoor furniture
indoor furniture
marine furnishing
flooring

DICKSON®
innovative textiles for your world

A GLEN RAVEN Company