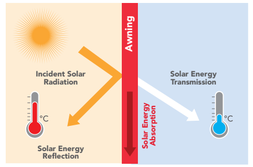
SUNWORKER:
An ultra high-tech fabric

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

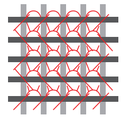
By choosing a SUNWORKER fabric, you can control the sun's glare while maintaining a clear view* towards the outside and still preserve your privacy… So you can see without being seen!

*except Sunworker Opaque and Cristal

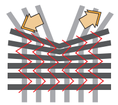
Mechanical Strength

RACHEL TRAMEUR HIGH RESISTANCE YARNS 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

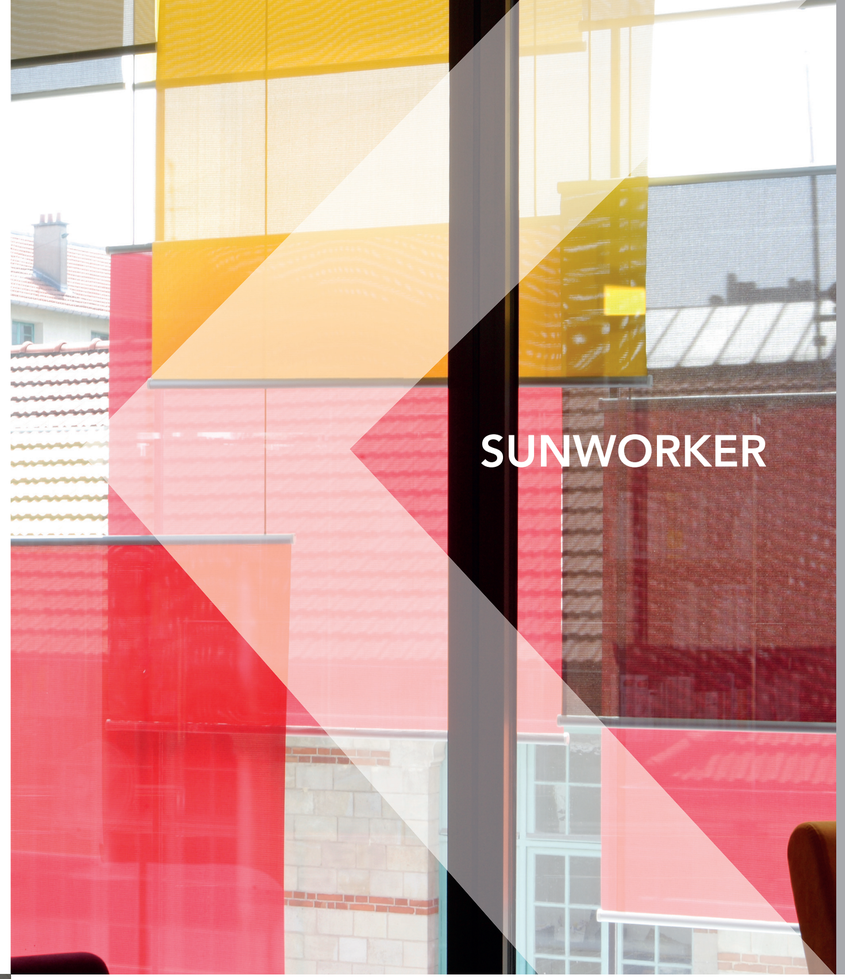
The Lowick System blocks the capillarity effect so the fabric's absorption of water is very limited. Sunworker fabrics are therefore more durable and stand up to even the most extreme weather conditions. The pigments used allow the colours to keep all their brilliance under the effects of the sun's rays.

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.

F I R E
RETARDANT



	Colour N°	THERMAL AND LIGHT PERFORMANCES												Colour equivalents	
		According to ISO9050 norm						According to EN14501 norm							
		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
SWK	M567	0,10	0,53	0,09	0,09	0,82	0,07	3	0	1	1	2	1	S6030-B50G	6004
SWK	M238	0,15	0,44	0,20	0,38	0,42	0,08	2	1	3	2	2	1	+/- S2050-R80B	+/- 5024
SWK	M228	0,14	0,50	0,13	0,21	0,66	0,05	3	0	3	2	2	1	S6020-R60B	5013
SWK	M711	0,15	0,41	0,21	0,50	0,29	0,18	2	1	1	2	1	2	1005-Y20R	+/- 1015
SWK	M713	0,15	0,42	0,21	0,38	0,41	0,18	3	1	1	1	2	2	S2020-Y30R	1001
SWK	M709	0,16	0,39	0,22	0,56	0,22	0,16	2	1	1	2	1	2	S030-Y20R	+/- 1017
SWK	M309	0,22	0,42	0,31	0,45	0,24	0,27	2	1	1	2	0	2	S0580-Y10R	1018
SWK	M005	0,16	0,36	0,23	0,66	0,11	0,21	2	1	1	2	0	2	S052-Y	+/- 9010
SWK	M710	0,17	0,38	0,25	0,57	0,18	0,23	2	1	1	2	1	2	S1005-Y	+/- 1013
SWK	M712	0,15	0,42	0,20	0,47	0,33	0,16	2	1	0	1	1	2	S2010-Y	+/- 7032
SWK	M654	0,11	0,41	0,14	0,47	0,39	0,11	3	1	1	2	1	1	S1002-G	+/- 7047
SWK	M653	0,10	0,46	0,12	0,35	0,53	0,10	4	1	1	2	1	1	S3005-R50B	7045
SWK	M652	0,09	0,48	0,08	0,24	0,68	0,07	4	1	3	2	2	1	S4502-B	+/- 7046
SWK	M927	0,20	0,47	0,27	0,31	0,42	0,09	3	1	3	2	2	1	S2060-R	+/- 3027
SWK	M838	0,13	0,53	0,09	0,13	0,78	0,06	3	0	3	2	2	1	S5030-R	3004
SWK	M392	0,08	0,53	0,06	0,07	0,87	0,05	4	0	3	2	2	1	S7502-B	+/- 7016
SWK	M393	0,09	0,53	0,07	0,08	0,85	0,06	4	0	3	2	2	1	S6502-N	8019
SWK	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
SWM	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
SWC	M709	0,16	0,40	0,22	0,54	0,24	0,15	2	1	1	2	1	2	S030-Y20R	+/- 1017
SWC	M005	0,17	0,37	0,24	0,63	0,14	0,22	2	1	1	2	0	2	S052-Y	+/- 9010
SWC	M710	0,17	0,39	0,23	0,57	0,20	0,22	2	1	1	2	0	2	S1005-Y	+/- 1013
SWC	M712	0,13	0,42	0,14	0,47	0,39	0,11	3	1	1	2	1	2	S2010-Y	+/- 7032
SWC	M654	0,13	0,43	0,15	0,44	0,42	0,12	3	1	1	2	1	2	S1002-G	+/- 7047
SWC	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								
SWO	M709	0,02	0,36	0,00	0,62	0,38	0,00								
SWO	M005	0,02	0,34	0,00	0,70	0,30	0,00								
SWO	M710	0,02	0,35	0,00	0,66	0,34	0,00								
SWO	M712	0,03	0,39	0,00	0,52	0,48	0,00								
SWO	M654	0,03	0,40	0,00	0,50	0,50	0,00								
SWO	M652	0,04	0,48	0,00	0,25	0,75	0,00								

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

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

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

TECHNICAL TEXTILES
for solar protection

DICKSON®
solar protection

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

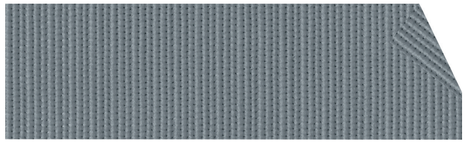
A GLEN RAVEN Company

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

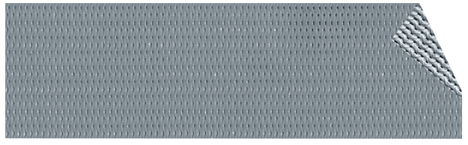
DICKSON®
innovative textiles for your world

Marguerite Yourcenar library - Paris

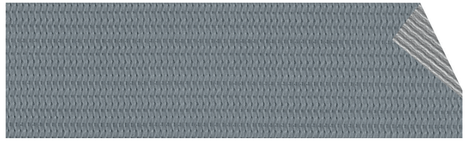
SUNWORKER: Fabric for all types of needs



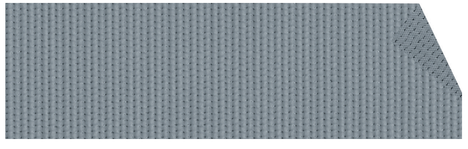
SUNWORKER
Ordering code:
SWK + colour ref + width



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 NF EN ISO 2286-1	Thickness NF EN ISO 2286-3	Tearing Strength In daN/5cm DIN 53363	Tensile Strength In daN/5cm NF EN ISO 13934-1	Acoustic Absorption 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 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

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®