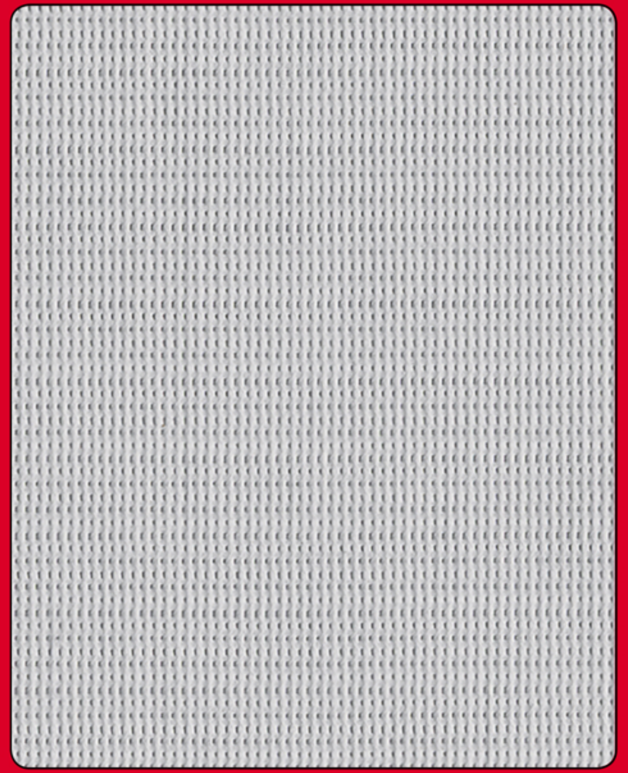
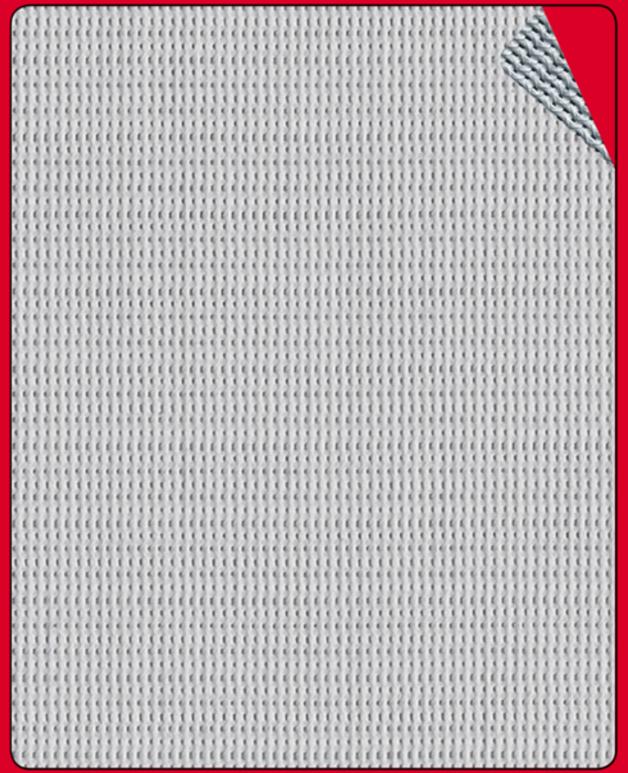
› SUNWORKER



SWK M654 GREY

› SUNWORKER METAL



AVAILABLE IN: SWM M652 SILVER / SWM M654 GREY

SUNWORKER RANGE

TOTAL FLEXIBILITY
Give your project a sense of consistency and harmony by mixing and matching the various finishes and coordinating colours.

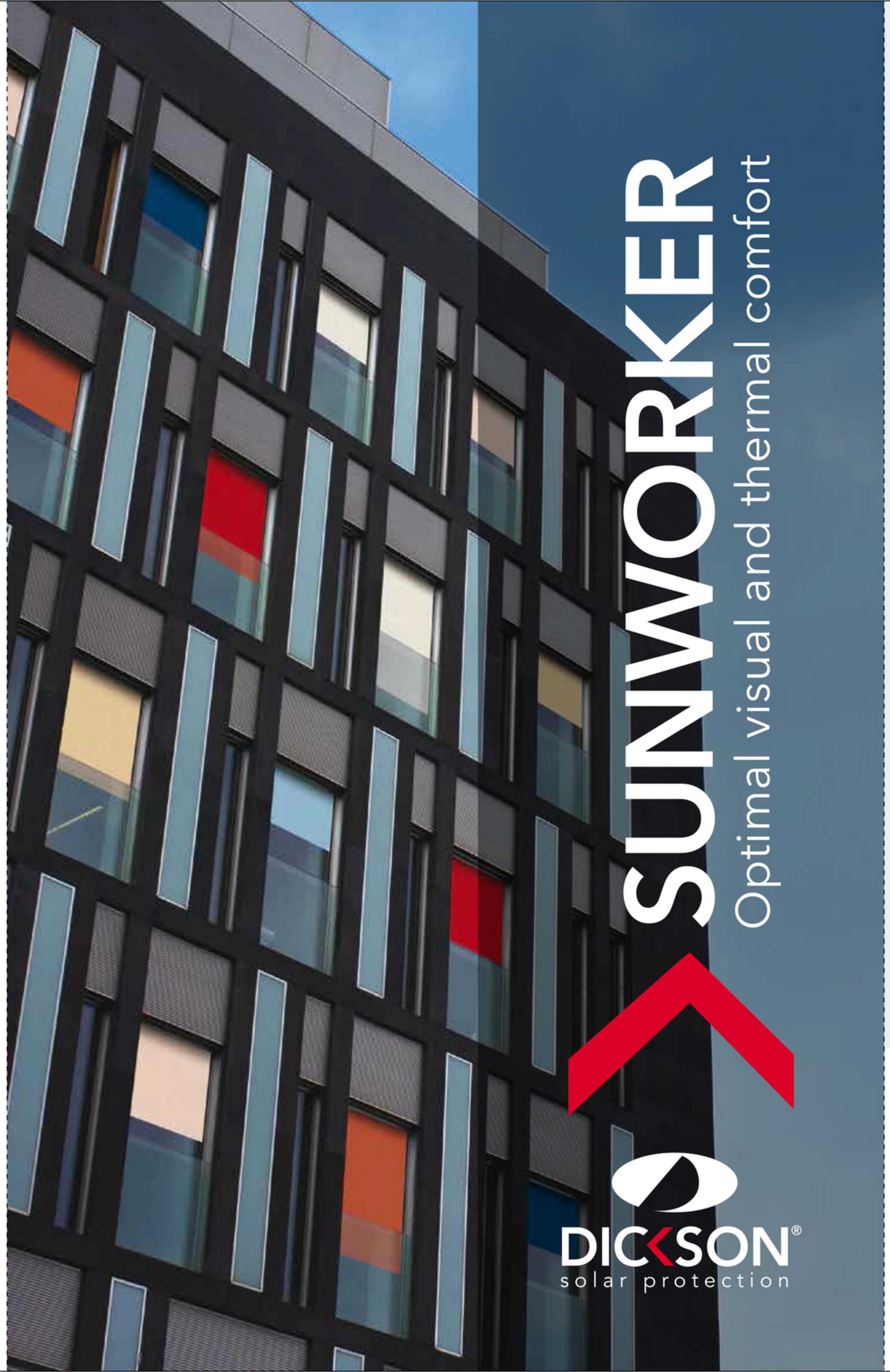
› SUNWORKER
Optimal visual and thermal comfort

SUNWORKER METAL
Enhanced thermal performance

› SUNWORKER OPAQUE
Blackout awning, the cost-effective alternative to rolling shutters

› SUNWORKER CRISTAL
The ultimate waterproof awning

› SUNWORKER OPEN
Enhanced visual comfort allowing natural light to filter through



SUNWORKER
Optimal visual and thermal comfort

DICKSON® solar protection

SWK PLE GB15

MADE IN FRANCE

WARRANTY 5 YEARS

GREENGUARD GOLD

For the general terms of warranty, please see **www.dickson-constant.com**

Sunworker fabrics have a small carbon footprint and are Greenguard-certified, helping create a healthier and less polluting indoor environment. Installing a Sunworker fabric can consequently earn points towards green building certification.

SUNWORKER FABRIC: PERFECT FOR ALL TYPES OF USE.

Can be used both indoors and outdoors, at temperatures ranging from -30°C to 70°C.

TECHNICAL SPECIFICATIONS

	Weight NF EN ISO 2286-1	Flame retardancy M1 (NF 92503) - B1 (DIN 4102) - C1 (UNI 9176) - Class 1 (UNE-EN 13773:2003) - Bs2d0 (Euroclass EN 13501-1)	Openness factor	Thickness NF EN ISO 2286-3	Tearing strength in daN/5cm DIN 53363	Tensile strength in daN/5cm NF EN ISO 13934-1	Width/roll length
SUNWORKER	320gsm	M1 - B1 - C1 - Class 1 - B s2 d0	6%	0.42mm	Warp43 Weft22	Warp220 Weft150	150cm/60m 300cm/30m
SUNWORKER METAL		M1 - B1 - Class 1	5%				

These technical specifications are average values with a tolerance of +/- 5%. All the specifications featured in this brochure are for information only and do not constitute a guarantee. Their sole purpose is to provide a general description of the products. They may not be construed as a contractual commitment on our part. It is the customer's responsibility to check the validity of this information and the compliance of the merchandise received prior to installation, carrying out preliminary tests if necessary. It is also his/her responsibility to ensure that the selected product is suitable for its intended use. The customer is responsible for using the product under normal foreseeable conditions and in accordance with all safety and environmental regulations currently in force in the place of use as well as the professional standards of his/her sector. Dickson Constant reserves the right to withdraw from the market any of the products that feature in this brochure and/or to amend the related specifications.

SERVICES

- EPD (Environmental Product Declaration-EN 15804) and LCA (Life-Cycle Analysis) are available upon request
- Personalized simulation of the thermal performances of your projects : prescription@dickson-constant.com
- Advisory service available to offer guidance and suggest the most appropriate solutions for your project, in line with your specifications : prescription@dickson-constant.com

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GLEN RAVEN

Performance fabrics for
Solar protection
Outdoor furniture
Indoor furniture
Marine furnishing
Flooring

DICKSON® innovative textiles for your world

Edition 01/2015 – SAS DICKSON CONSTANT - capital 12.640.000 euros - 381 347 970 R.C.S. Lille Métropole - Photos : hudifeng / MrSmithphoto / Igor Sandra - Thinkstock, Atmosphère Photo, Domaine des Artistes by Groupe Terra - Architect : Design global & Architecture intérieure O.Gossart - Glen Raven™ is a trademark of Glen Raven, Inc. - Dickson Constant is a Glen Raven company - les enchanteurs 03 28 04 02 30

SUNWORKER
OPTIMAL VISUAL AND THERMAL COMFORT

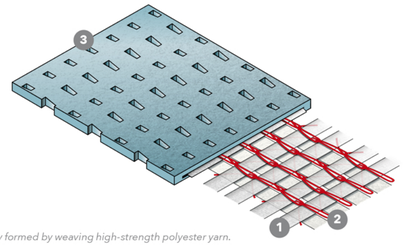
SUNWORKER solar protective fabric regulates light and heat and optimizes energy cost savings with sustainable development in mind.

A true natural air conditioner, Sunworker offers an effective way of meeting the objectives laid down by the EPBD (The Energy Performance of Buildings Directive). Its energy efficiency makes it a perfectly adapted fabric for the tertiary and residential sectors.

DICKSON® solar protection

AN INNOVATIVE WEAVING TECHNIQUE **FOR UNPARALLELED STRENGTH**

RACHEL TRAMEUR HIGH RESISTANCE WEAVE by DICKSON



1. *Textile ply formed by weaving high-strength polyester yarn.*
2. *Binder yarn secures the textile ply but allows the threads to move independently of each other, thereby distributing and absorbing the mechanical energy in the event of tearing.*
3. *A special coating that protects colours from UV rays and inclement weather.*

METALLIC FINISH, ENHANCED THERMAL PERFORMANCE

SUNWORKER METAL has an aluminium side that helps reduce solar gain and improves thermal performance by 30%. The metallic appearance sits perfectly with the latest trends in modern architecture.

SUNWORKER
5 GOOD REASONS TO CHOOSE A SUNWORKER FABRIC

1 AESTHETICS, preserves the building's aesthetics

A thin, lightweight textile with a **smooth, even texture** that :

- Enhances the building's architectural design
- **Harmoniously diffuses light**
- Allows for the use of **discreet cassettes**, thereby preserving the building's aesthetic appeal
- Comes in a **range of coordinating colours that complement the other fabrics** in the SUNWORKER range, resulting in perfectly harmonious façades regardless of the fabric chosen (Cristal, Opaque, Metal, Open)
- **Can be printed with a design** in order to customize the façade

2 VISUAL COMFORT, enhances user well-being

SUNWORKER fabric has a **6% open weave**, enhancing user well-being by delivering optimal visual comfort :

- **Controls glare**
- Excellent **visual contact with the outside**

By reducing the need for artificial lighting by 30% compared with closer-weave fabrics and **providing controlled natural light**, SUNWORKER :

- Preserves the daylight factor
- Compensates for the reduced light transfer of modern windows
- Promotes better health for the building's occupants
- Fosters enhanced workplace productivity

3 COST-EFFECTIVE , a thin and discreet fabric

A thin, lightweight fabric that :

- Fosters ease-of-use
- **Reduces investment costs** by requiring a less bulky supporting framework

A profitable solution that :

- Generates **energy savings and cuts lighting costs**
- **Reduces the building's environmental footprint** throughout its lifetime

4 MAXIMUM RESISTANCE AND SAFETY a fabric that stands the test of time

The highest resistance on the market :

- **Unparalleled mechanical strength** thanks to the Rachel Trameur-type weave
- A special coating that **protects colours from UV rays and inclement weather**

SYSTEM LOWICK

Maximum safety of use, both indoors and outdoors :

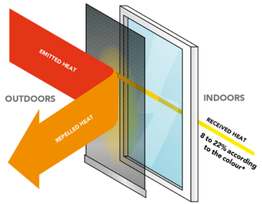
- Classified fire-retardant
- Certified by official accredited bodies

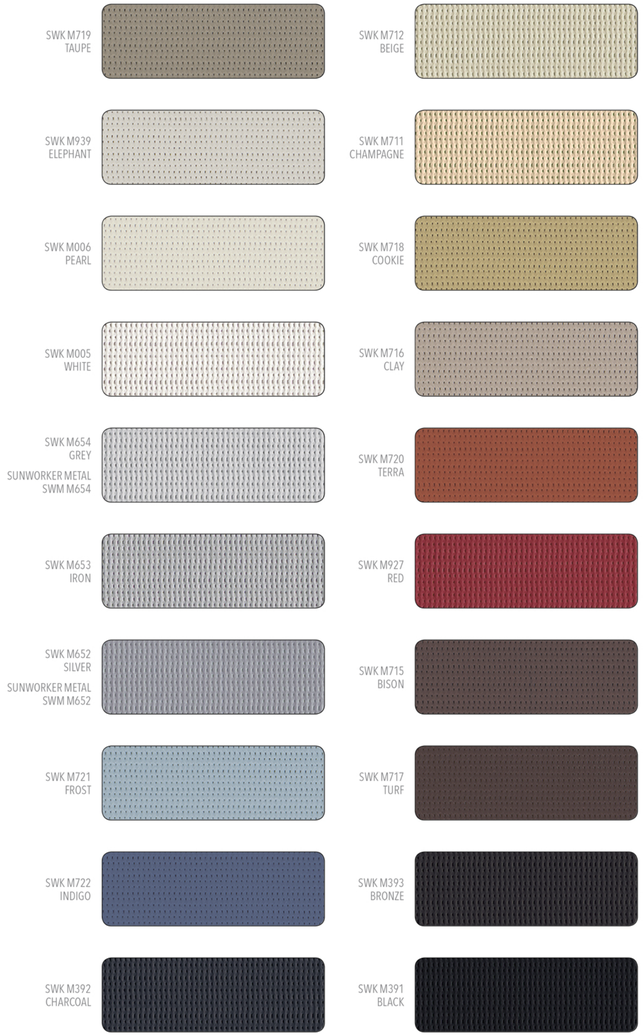
5 THERMAL COMFORT, boosts the building's energy efficiency

SUNWORKER fabric improves the building's energy footprint :

- **Repels up to 95% of heat**, dramatically reducing the need for air conditioning
- **Cuts heating costs** in winter
- **Acts as a barrier to radiation from the window** (minimizing cold gain in the winter and excessive heat gain in the summer)

Thanks to its optimized open weave, SUNWORKER fosters better evacuation of hot air, thereby minimizing the risk of thermal breakage.





THERMAL AND VISUAL PERFORMANCE

according to standards EN 410, EN 14500, EN 14501 and EN 13363-1

Colour no.	Solar factors		Energy efficiency			Visual performance		
	gtot* ext.	gtot* int.	τe	ρe	αe	τV	ρV	αV
SWK M005	0,16	0,36	0,23	0,66	0,11	0,21	0,75	0,04
SWK M006	0,19	0,39	0,26	0,57	0,17	0,22	0,60	0,18
SWK M391	0,12	0,55	0,06	0,05	0,89	0,06	0,05	0,89
SWK M392	0,12	0,55	0,06	0,07	0,87	0,06	0,07	0,87
SWK M393	0,12	0,54	0,07	0,08	0,85	0,06	0,08	0,86
SWK M652	0,12	0,49	0,08	0,24	0,68	0,07	0,26	0,67
SWK M653	0,13	0,46	0,12	0,35	0,53	0,10	0,38	0,52
SWK M654	0,13	0,42	0,14	0,47	0,39	0,11	0,53	0,36
SWK M711	0,17	0,41	0,21	0,50	0,29	0,18	0,55	0,27
SWK M712	0,16	0,42	0,20	0,47	0,33	0,17	0,53	0,30
SWK M715	0,08	0,38	0,07	0,57	0,36	0,22	0,60	0,18
SWK M716	0,13	0,46	0,13	0,33	0,54	0,09	0,33	0,58
SWK M717	0,12	0,55	0,07	0,07	0,86	0,06	0,06	0,88
SWK M718	0,15	0,45	0,16	0,36	0,48	0,12	0,35	0,53
SWK M719	0,13	0,49	0,11	0,23	0,66	0,09	0,23	0,68
SWK M720	0,14	0,50	0,13	0,21	0,66	0,08	0,12	0,80
SWK M721	0,16	0,42	0,20	0,46	0,34	0,11	0,36	0,53
SWK M722	0,12	0,53	0,08	0,13	0,79	0,07	0,10	0,83
SWK M927	0,22	0,47	0,27	0,31	0,42	0,09	0,11	0,80
SWK M939	0,13	0,46	0,12	0,33	0,55	0,10	0,36	0,54
SWM M652**	0,09	0,45	0,05	0,35	0,60	0,06	0,36	0,58
SWM M654**	0,09	0,45	0,05	0,35	0,60	0,06	0,36	0,58

Colour no.	UV-blocking performance	Colour equivalents	
	τUV	NCS	RAL
SWK M005	0,06	S 0500-N	9016
SWK M006	0,06	S 1005-Y10R	9002
SWK M391	0,06	S 8500-N	9011
SWK M392	0,06	S 7500-N	7016
SWK M393	0,06	S 8505-Y20R	8019
SWK M652	0,06	S 4500-N	7045
SWK M653	0,06	S 3000-N	7004
SWK M654	0,06	S 1500-N	7047
SWK M711	0,06	S 1010-Y30R	1015
SWK M712	0,06	S 2010-Y10R	+/- 7032
SWK M715	0,06	S 7005-Y80R	+/- 8019
SWK M716	0,06	S 3005-Y50R	+/- 1019
SWK M717	0,06	S 8010-R10B	3007
SWK M718	0,06	S 2030-Y10R	+/- 1002
SWK M719	0,06	S 4005-Y20R	7048
SWK M720	0,06	S 3060-Y70R	3013
SWK M721	0,06	S 2020-B10G	+/- 5024
SWK M722	0,06	S 5030-R90B	5000
SWK M927	0,06	S 2070-R	3003
SWK M939	0,06	S 3005-Y20R	7030
SWM M652**	0,06	S3502-B	9022
SWM M654**	0,06	S3502-B	9022

τe : solar transmission - **ρe** : solar reflection - **αe** : solar absorption - **τV** : visual transmission - **ρV** : visual reflection - **αV** : visual absorption - **τUV** : UV transmission - * **gtot** : solar factor for the combination of fabric + reference glazing C (double glazing 4+16+4 with low-emission layer on side 3, Argon filling; U=1,2 W/m2K; g=0,59) ** Values for the metallic side exposed to the exterior.

The thermal and visual characteristics of our products are measured using standards EN 410, EN 14500, EN 14501 and EN 13363-1. As the quality of these measurements is critical to a project's success, measurements taken internally cannot be relied upon alone. Dickson therefore entrusts these measurements to an official accredited laboratory, CSTC/WTCB (Centre Scientifique et Technique de la Construction), which produces an independent report officially establishing the product's characteristics.