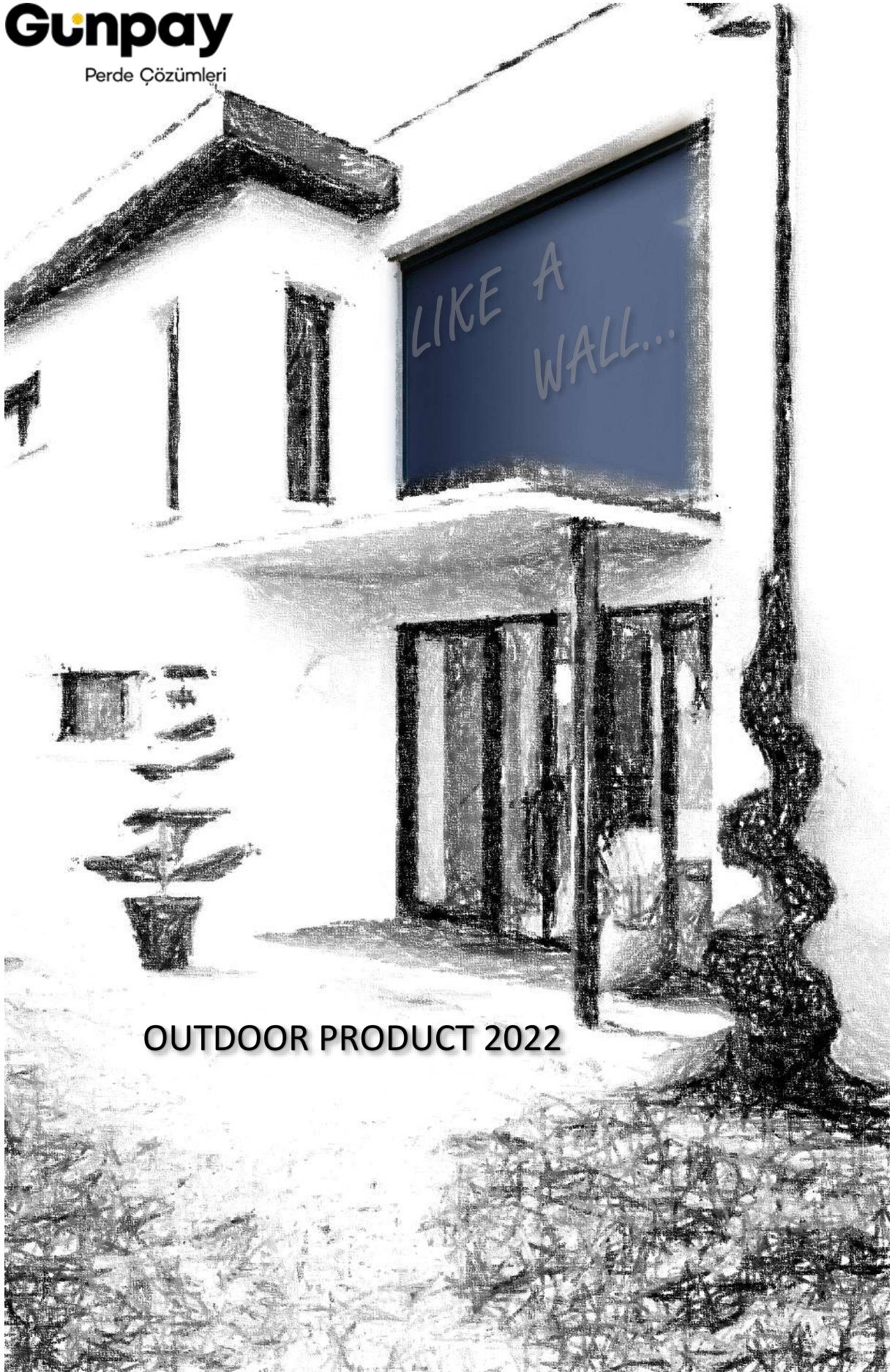


Gunpay
Perde Çözümleri



OUTDOOR PRODUCT 2022

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FOR MORE THAN 20 YEARS, WE
BRING LIGHT TOGETHER WITH
SHADOW, CREATING SPACIOUS
SPACES ...

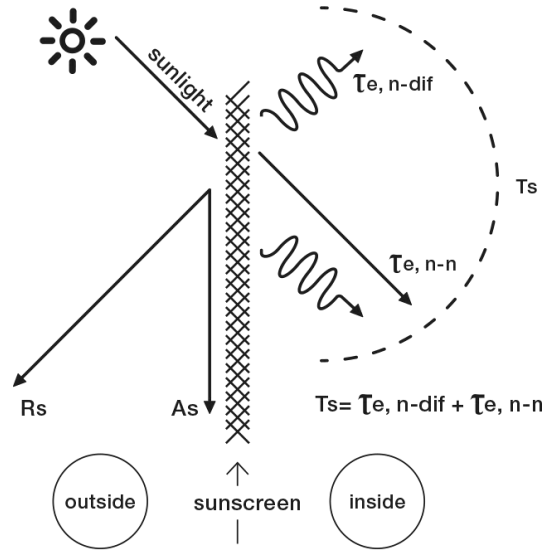
GÜNPAY CURTAIN SYSTEMS

SERGE 600

WORKING OF A SUNSCREEN

Sunscreen means protection against the sunrays, so the function is the protection against light and heat, which is expressed in several properties.

Rs	Solar reflectance
As	Solar absorptance
Ts	Solar transmittance
Te,n-dif	Diffuse solar transmittance
Te,n-n	Normal solar transmittance



VISUAL PROPERTIES

Openness Factor

The openness of a screen is indicated by the openness factor = **OF**. The openness coefficient is the relative area of the openings in the fabric seen under a given incidence. The openness factor is seen under a normal incidence.

The sunrays are subdivided in: **Visible light**, **UV-light** and **IR-light**. **Visible light** (55% of the sun-energy) is that part for which our eyes are most sensitive. How larger the light intensity, how more detrimental for our eyes.

The factor Visible Light Transmittance = **Tv**, is the ratio of visible light that will be transmitted. How lower this factor can be kept, how better for the eyes.

UV-light (3% of the sun-energy) is the part of radiation which is detrimental for our health. This factor is indicated by the UV Transmittance = **Tuv**. This is the quantity UV-light transmitted by the sunscreen.

IR-light is invisible. This is however 42% of the sun-energy. These rays care for the reheating of solid substances and gases.

Influence of colours

The choice of the colour has direct influence on the criteria which justify the use of sunscreen protection:

- Protection against visible light, expressed by the factor **Tv**.
- Protection against sun-energy, expressed by the **G** value.
- Protection against secondary heat, expressed by the factor **Qi**.
- Protection against UV-light, expressed by the factor **Tuv**

Classes

glare control

The capacity of the solar protection device to control the luminance level of openings and to reduce the luminance contrasts between different zones within the field.

Tv,n-n	Tv,n-dif			
	Tv,n-dif<0,02	0,02<Tv,n-dif<0,04	0,04≤Tv,n-dif<0,08	Tv,n-dif>0,08
Tv,n-n>0,10	0	0	0	0
0,05<Tv,n-n<0,10	1	1	0	0

$\tau_{v,n-n} \leq 0,05$	3	2	1	1
$\tau_{v,n-n} = 0,00$	4	3	2	FABRIC CHOICE ₂ / Serge

privacy at night

Night privacy is the capacity of an internal or external blind or a shutter in the fully extended position or fully extended and closed position to protect persons, at night in normal light conditions from external view. External views means the ability of an external observer located 5m from the fully extended and closed product, to distinguish a person or object standing 1m behind the protection device in the room.

$\tau_{v,n-n}$	$\tau_{v,n-dif}$		
	$0 < \tau_{v,n-dif} < 0,04$	$0,04 < \tau_{v,n-dif} < 0,15$	$\tau_{v,n-dif} > 0,15$
$\tau_{v,n-n} > 0,10$	0	0	0
$0,05 < \tau_{v,n-n} < 0,10$	1	1	1
$\tau_{v,n-n} \leq 0,05$	2	2	2
$\tau_{v,n-n} = 0,00$	4	3	2

visual contact with the outside

Visual contact with the outside is the capacity of the solar protection device to allow an exterior view when it is fully extended. This function is affected by different light conditions during the day

$\tau_{v,n-n}$	$\tau_{v,n-dif}$		
	$0 < \tau_{v,n-dif} < 0,04$	$0,04 < \tau_{v,n-dif} < 0,15$	$\tau_{v,n-dif} > 0,15$
$\tau_{v,n-n} > 0,10$	4	3	2
$0,05 < \tau_{v,n-n} < 0,10$	3	2	1
$\tau_{v,n-n} \leq 0,05$	2	1	0
$\tau_{v,n-n} = 0,00$	0	0	0

daylight utilisation

Daylight utilisation is characterised by:

- the capacity of the solar protection device to reduce the time period during the artificial light is required.
- the capacity of the solar protection device to optimise the daylight which is available.

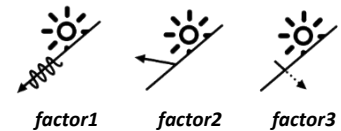
class	0	1	2	3	4
$\tau_{v,dif-h}$	$\tau_{v,dif-h} < 0,02$	$0,02 < \tau_{v,dif-h} < 0,10$	$0,10 < \tau_{v,dif-h} < 0,25$	$0,25 < \tau_{v,dif-h} < 0,40$	$\tau_{v,dif-h} > 0,40$

THERMAL COMFORT

Fabric

Energy radiated by the sun, will be split up in 3 factors. These 3 factors together are always 100%

- 1) **As** = Solar absorptance is the ratio of the absorbed flux to the incident flux.
- 2) **Rs** = Solar reflectance is the fraction of the incident solar radiation that is directly reflected by the component.
- 3) **Ts** = Solar transmittance is the sum of the (normal) direct solar transmittance and the diffuse solar transmittance. This is the fraction of the total transmitted energy to the total incident solar radiation.



The G-factor

Sunscreens are always used in combination with a glazing. These together will prevent a large quantity of energy, sent by the sun to the earth, which is indicated by the: Total Solar Energy Transmittance, or **G-factor**.

The **G** value is the ratio between the total solar energy transmitted into a room through a window and the incident solar energy on the window.

The **G_{tot}** is the solar factor of the combination of glazing and solar protection device.

The **Gv** is the solar factor of the glazing alone. The shading coefficient is defined as the ratio of the solar factor of the combined glazing and solar protection device **Gtot** to that of the glazing alone **Gv**.

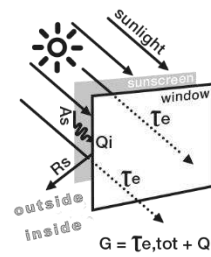
FABRIC CHOICE / Serge

$$G = T_{e,tot} + Q_i$$

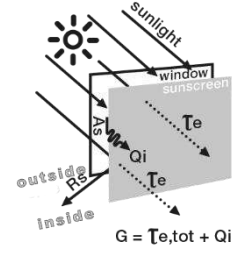
The total solar energy transmitted through a window consists of two parts:

- 1) Radiation: measured by the solar transmittance: **Te,tot**
- 2) Heat: measured by the secondary heat transfer: **Qi**

Rs	Solar reflectance
As	Solar absorptance
Te	Direct solar transmittance
Qi	Secondary heat transfer factor
G	G-factor = total solar energy transmittance



exterior sunscreen



interior sunscreen

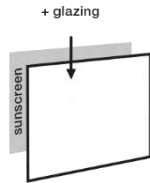
The factor **Te,tot**, is the quantity of energy, which will pass the combination solar protection device and window. The factor **Qi** is the quantity of heat which is released by the absorption of energy in the sunscreen protection system = combination sunscreen + glazing.

The **G-factor** is the most important factor to explain the efficiency of a combination sunscreen + glazing, as protection against the energy of the sun. The **G-factor** divided into his components explains the difference in efficiency between exterior and interior sunscreen.

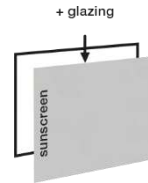
$$G = T_{e,tot} + Q_i$$

The direct solar transmittance **Te,tot** is the same for interior and exterior use of sunscreens. The secondary heat factor **Qi** for interior sunscreen is bigger then for exterior sunscreen. For interior use, the heat, produced by the absorption of energy, will be transmitted to the room inside. By exterior use, the heat will be transmitted to the outside, without any inconvenience at the inside.

exterior sunscreen



interior sunscreen



Also the colour of the sunscreen has an influence on the **G-factor**. Dark colours will absorb a lot of sun energy and will transmit this to heat. If the screen is used for exterior, heat will have no influence inside the room, contrary to a screen used for interior. This is why a darker screen is ideal for exterior use and a lighter screen for interior use.

Classes

total solar energy transmittance = **G-factor**

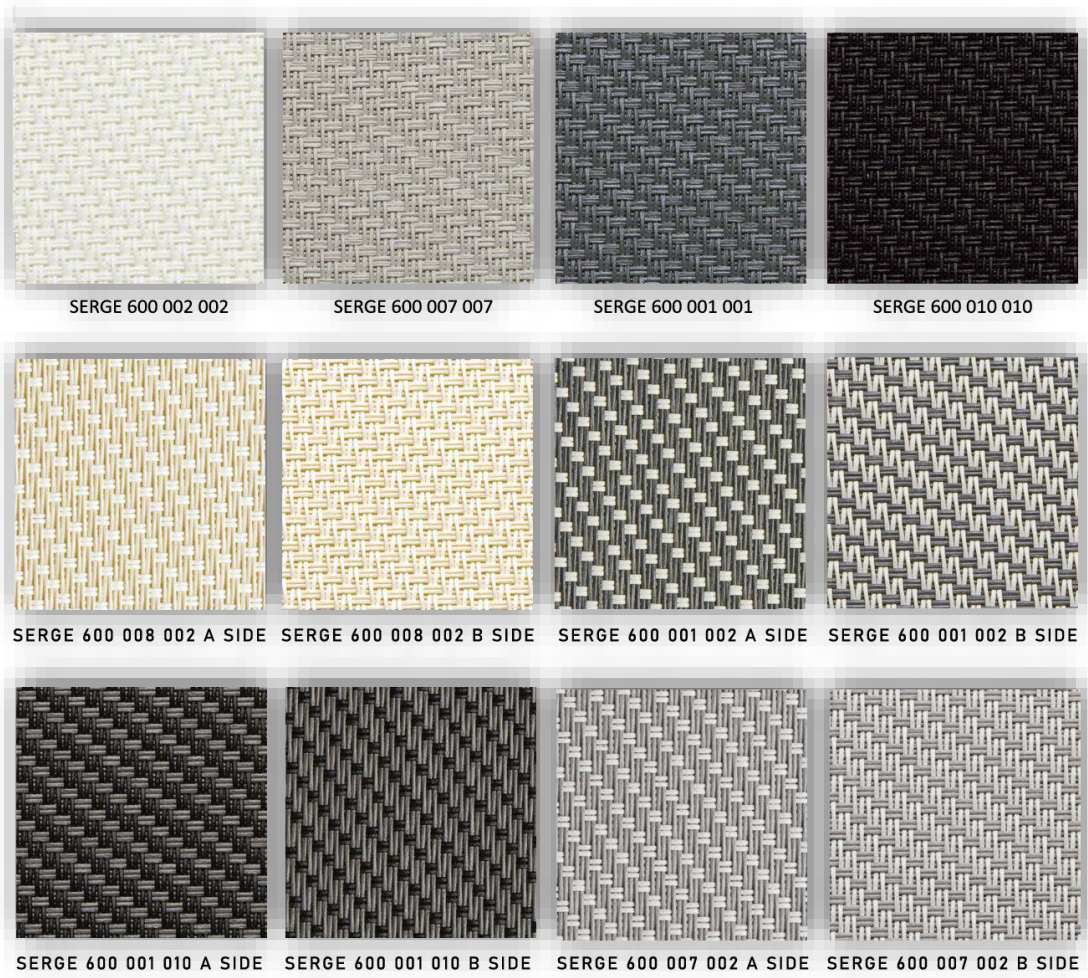
class	0	1	2	3	4
Gtot	$G_{tot} \geq 0,50$	$0,35 \leq G_{tot} < 0,50$	$0,15 \leq G_{tot} < 0,35$	$0,10 \leq G_{tot} < 0,15$	$G_{tot} < 0,10$

secondary heat transfer = **Qi**

class	0	1	2	3	4
Qi	$Q_i \geq 0,30$	$0,20 \leq Q_i < 0,30$	$0,10 \leq Q_i < 0,20$	$0,03 \leq Q_i < 0,10$	$Q_i < 0,03$

Normal Solar transmittance = protection against direct transmission The ability of a solar protection device to protect persons and surroundings from direct irradiation is measured by the direct/direct solar transmittance of the device in combination with the glazing. e_n is used as measure for this property.

POSSIBLE SERGE FABRIC COLORS



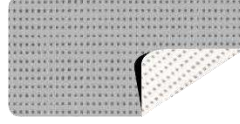
SOLTIS

Horizon 86

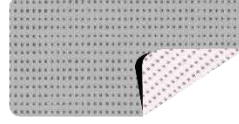
	■ Technical properties	Standards
Openness factor	14%	
Weight	380 g/m ²	EN ISO 2286-2
Thickness	0.45 mm	
Width	177 cm - 267 cm	
■ Roll length		
Standard format: 177 cm	50 lm	
Standard format: 267 cm	40 lm	
■ Physical properties		
Breaking resistance (warp / weft)	230/160 daN/5 cm	EN ISO 1421
Tear resistance (warp / weft)	45/20 daN	DIN 53.363
■ Reaction to fire		
Rating	M1/NFP 92-507 — B1/DIN 4102-1 — BS 7837 — BS 5867 — Schwerbrennbar-Q1-Tr1/ONORM A 3800-1 — Classe 1/EN 13373 — M1/UNE 23.727-90 — VKF 5.3/SN 198898 — 1530.3/AS/NZS G1/GOST 30244-94 — Method 1/NFPA 701 — CSFM T19 — Class A/ASTM E84	
Euroclass	B-s2.d0	EN 13501-1



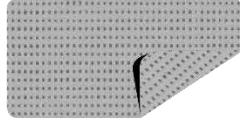
Boulder 177 cm — 267 cm 86-2171



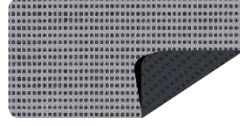
Alu/White 177 cm — 267 cm 86-2051



Alu/Oat 177 cm — 267 cm 86-2046



Alu/Alu 177 cm — 267 cm 86-2048



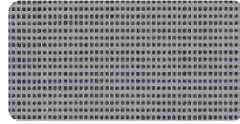
Alu/Anthracite 177 cm 86-2068



Bronze 177 cm — 267 cm 86-2043



Concrete 177 cm — 267 cm 86-2167



Beaten metal 177 cm — 267 cm 86-2045



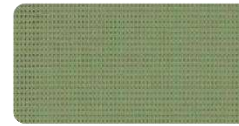
Pepper 177 cm — 267 cm 86-2012



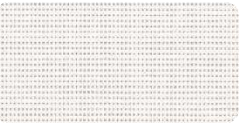
Anthracite 177 cm — 267 cm 86-2047



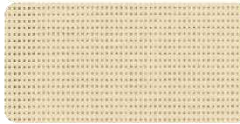
NEW Deep black 177 cm — 267 cm 86-51176



Moss green 177 cm 86-2158



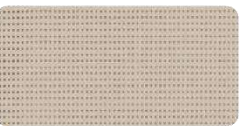
White 177 cm — 267 cm 86-2044



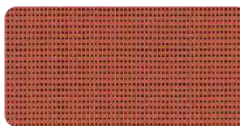
Champagne 177 cm — 267 cm 86-2175



Red 177 cm 86-8255



Sandy beige 177 cm — 267 cm 86-2135



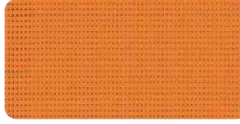
NEW Brick 177 cm 86-51180



NEW Deep blue 177 cm 86-51182



Buttercup 177 cm 86-2166



Orange 177 cm 86-8204

Solar and light properties (selon EN 14501)

		Width (in cm)		TS	RS	AS	TV n-h	EN13363-2* Glazing D	
		177	267					g_{tot}^e	g_{tot}^i
86-2012		•	•	18	27	55	16	0.08	0.24
86-2043		•	•	15	11	74	15	0.07	0.28
86-2044		•	•	29	59	12	28	0.11	0.15
86-2045		•	•	16	29	55	16	0.08	0.23
86-2046A		•	•	22	40	38	21	0.10	0.16
86-2046B		•	•	22	55	23	21	0.09	0.20
86-2047		•	•	17	7	76	17	0.07	0.28
86-2048		•	•	19	39	42	19	0.09	0.20
86-2051 A		•	•	22	40	38	20	0.09	0.13
86-2051 B		•	•	22	60	18	20	0.09	0.20
86-2068 A		•		17	31	52	17	0.08	0.23
86-2068 B		•		17	7	76	17	0.09	0.28
86-2135		•	•	24	39	37	22	0.09	0.21
86-2157		•		25	44	31	21	0.08	0.21
86-2158		•		18	25	57	16	0.08	0.25
86-2166		•		31	45	24	28	0.11	0.21
86-2167		•	•	17	14	69	17	0.07	0.26
86-2171		•	•	22	36	42	20	0.08	0.21
86-2175		•	•	30	57	13	28	0.11	0.16
86-8204		•		29	41	30	21	0.10	0.23
86-8255		•		21	24	55	14	0.07	0.27
86-50690		•	•	28	61	11	27	0.11	0.14
86-51176		•	•	14	5	81	14	0.07	0.29
86-51180		•		17	24	59	15	0.07	0.26
86-51181		•		18	14	68	16	0.08	0.28
86-51182		•		18	23	59	15	0.07	0.27

A : Aluminium surface exposed to the sun
B : Coloured surface exposed to the sun
TS : Solar Transmission in %
RS : Solar Reflection in %
AS : Solar absorption in %
TS + RS + AS = 100% of the incident energy
TV n-h : Normal Visible light transmission - hemispherical in %
 g_{tot}^e : External Solar Factor
 g_{tot}^i : Indoor Solar Factor

* Detailed
EN 13363-2 method

Takes into account the spectral values of glazing transmission and reflection + blind complex for calculating the solar factor g_{tot}.
Type "D" glazing: insulating double glazing with low emissivity on surface 2 (4 + 16 + 4; Argon filling) g = 0.32 - U = 1.1

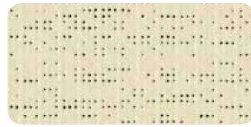
SOLTIS

Perform 92

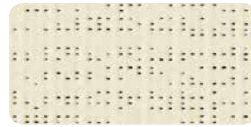
	■ Technical properties	Standards
Openness factor	4%	
Weight	420 g/m ²	EN ISO 2286-2
Thickness	0.45 mm	
Width	177 cm - 267 cm	
■ Roll length		
Standard piece size: 177 cm	50 lm	
Standard piece size: 267 cm	40 lm	
■ Physical properties		
Breaking resistance (warp/weft)	310/210 daN/ 5 cm	EN ISO 1421
Tear resistance (warp/weft)	45/20 daN	DIN 53.363
■ Reaction to fire		
Rating	M1/NFP 92-507 — B1/DIN 4102-1 — BS 7837 — BS 5867 — Schwerbrennbar-Q1-Tr1 /ONORM A 3800-1 Classe 1/EN 13373 — M1/UNE 23.727-90 — VKF 5.3 /SN 198898 — 1530.3/ AS /NZS G1/GOST 30244-94 — Method 1 /NFPA 701 — CSFMT19 — Class A /ASTM E84	
Euroclass	B-s2,d0	EN 13501-1



Champagne 177 cm — 267 cm 92-2175



NEW Quartz 177 cm — 267 cm 92-50303



NEW Shea 177 cm — 267 cm 92-50843



Pepper 177 cm — 267 cm 92-2012



Hemp 177 cm — 267 cm 92-50265



Sandy beige 177 cm — 267 cm 92-2135



Cloud 177 cm — 267 cm 92-50272



Havana-Brown 177 cm 92-50266



NEW Taupe 177 cm — 267 cm 92-50850



NEW Dark grey 177 cm — 267 cm 92-51177



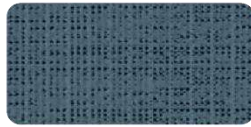
Boulder 177 cm — 267 cm 92-2171



Concrete 177 cm — 267 cm 92-2167



Moss green 177 cm 92-2158



NEW Celestial grey 177 cm 92-51178



Anthracite 177 cm — 267 cm 92-2047



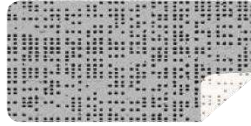
White 177 cm — 267 cm 92-2044



NEW Green-grey 177 cm 92-51179



NEW Tennis green 177 cm 92-8056



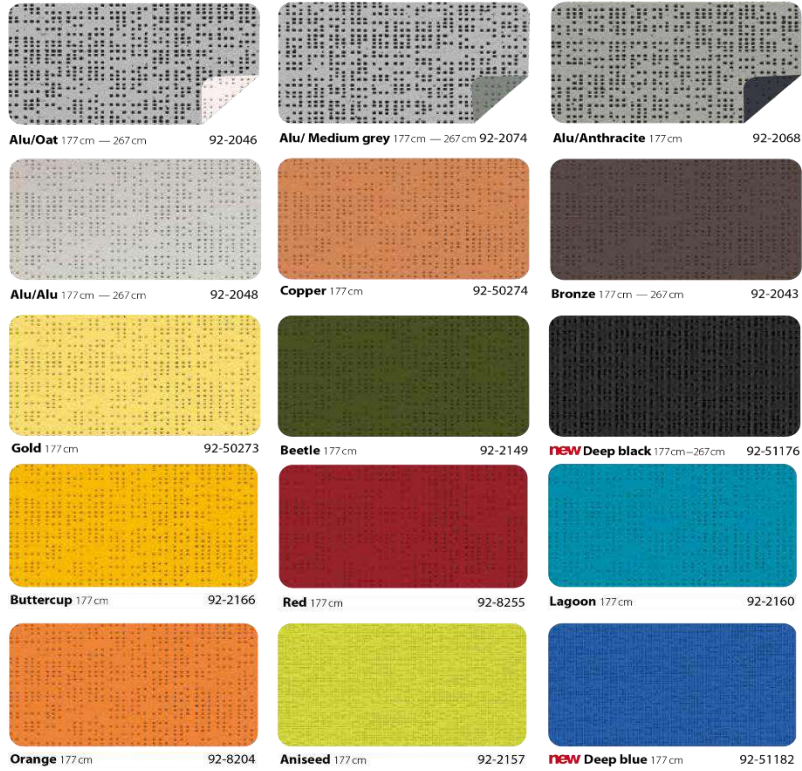
Alu/White 177 cm — 267 cm 92-2051



NEW Brick 177 cm 92-51180



NEW Deep red 177 cm 92-51181



• Solar and light properties (according to EN 14501)

	Width (in cm)	TS	RS	AS	TV n-h	EN 13363-2* Glazing D	
						g _{tot} ^e	g _{tot} ⁱ
	177 267						
92-2012		• •	7	30	63	6	0.04 0.24
92-2043		• •	4	13	83	4	0.04 0.28
92-2044		• •	19	68	13	17	0.07 0.11
92-2045		• •	4	35	61	4	0.03 0.22
92-2046 A		• •	12	46	42	10	0.05 0.18
92-2046 B		• •	12	63	25	10	0.05 0.14
92-2047		• •	5	8	87	5	0.04 0.28
92-2048		• •	8	46	46	8	0.04 0.18
92-2051 A		• •	12	49	39	11	0.06 0.17
92-2051 B		• •	12	70	18	11	0.05 0.10
92-2068 A		•	4	34	62	4	0.03 0.22
92-2068 B		•	4	8	88	4	0.04 0.28
92-2074 A		• •	4	37	59	4	0.03 0.21
92-2074 B		• •	4	25	71	4	0.03 0.24
92-2135		• •	11	46	43	8	0.04 0.19
92-2149		•	5	16	79	4	0.04 0.27
92-2157		•	15	51	34	10	0.05 0.20
92-2158		•	7	28	65	5	0.03 0.24
92-2160		•	11	36	53	5	0.04 0.24
92-2166		•	21	54	25	17	0.07 0.19
92-2167		• •	6	19	75	5	0.04 0.26

	Width (in cm)	TS	RS	AS	TV n-h	EN 13363-2* Glazing D	
						g _{tot} ^e	g _{tot} ⁱ
	177 267						
92-2171		• •	8	41	51	6	0.04 0.20
92-2175		• •	19	65	16	17	0.07 0.14
new 92-8056		•	2	10	88	2	0.03 0.28
92-8204		•	21	45	34	11	0.06 0.23
92-8255		•	12	28	60	4	0.05 0.27
92-50265		• •	9	49	42	6	0.04 0.18
92-50266		•	4	19	77	4	0.03 0.26
92-50272		• •	12	55	33	9	0.05 0.16
92-50273		•	8	42	50	5	0.04 0.21
92-50274		•	8	35	57	4	0.04 0.24
new 92-50303		• •	15	63	22	10	0.05 0.15
new 92-50843		• •	13	62	25	10	0.05 0.14
new 92-50850		• •	5	31	64	3	0.03 0.23
new 92-50690		• •	17	73	10	15	0.06 0.10
new 92-51176		• •	3	5	92	3	0.03 0.29
new 92-51177		• •	3	18	79	3	0.03 0.26
new 92-51178		•	5	20	75	4	0.03 0.26
new 92-51179		•	6	29	65	4	0.03 0.24
new 92-51180		•	6	27	67	3	0.03 0.26
new 92-51181		•	4	17	79	3	0.03 0.28
new 92-51182		•	8	26	66	4	0.03 0.27

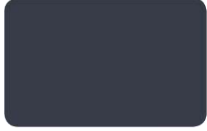
TS: Solar Transmission in %
RS: Solar Reflection in %
AS: Solar absorption in %
TS + RS + AS = 100% of the incident energy
TV n-h: Normal Visible light transmission - hemispherical in %
A: Aluminium surface exposed to the sun
B: Coloured surface exposed to the sun
g_{tot}^e: External Solar Factor
g_{tot}ⁱ: Indoor Solar Factor

* Detailed
EN 13363-2 method

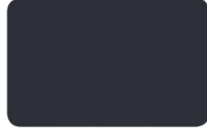
Takes into account the spectral values of glazing transmission and reflection + blind complex for calculating the solar factor g_{tot}. Type "D" glazing: insulating double glazing with low emissivity on surface 2 (4 + 16 + 4; Argon filling) g = 0.32 - U = 1.1

STANDART RAL COLORS

GLOSS



RAL 7016



RAL 7021



RAL 7030



RAL 7035



RAL 7039



RAL 8019



RAL 9016



RAL 9005



RAL 9007



RAL 9010

MATTE



RAL 7016



RAL 7021



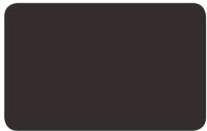
RAL 7030



RAL 7035



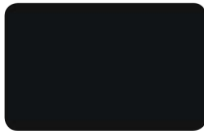
RAL 7039



RAL 8019



RAL 9016



RAL 9005



RAL 9007



RAL 9010

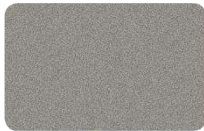
TEXTURE



RAL 7016



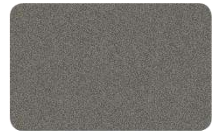
RAL 7021



RAL 7030



RAL 7035



RAL 7039



RAL 8019



RAL 9016



RAL 9005



RAL 9007



RAL 9010



- ✚ **APPLICABLE TO LARGE AREAS** (*GLASS FACADES, PERGOLAS, BOLCONY ETC...*)
- ✚ **SUPERIOR SIDE CHANNELS FOR EASY INSTALLATION, DURABLE** (*ALSO AESTHETICS AND SILENT.*)
- ✚ **GENERALLY, QUICK AND SAFE INSTALLATION**
- ✚ **WIND RESISTANCE WITH ZIP TECHNOLOGY**
- ✚ **COMBINE SUN PROTECTION, WIND RESISTANT AND PRIVACY** (*PROZIPSCREEN® PROVIDE MAXIMUM PROTECTION AGAINST SUNLIGHT, HEAT PENETRATION, AND AT THE SAME TIME ENSURE AN OPTIMAL LEVEL OF NATURAL LIGHT IN THE INTERIOR.*)
- ✚ **INSECT PROTECTION** (*PROZIPSCREEN® OFFER PRACTICAL PROTECTION AGAINST INSECTS, AS THE SPACE BETWEEN THE BOX, THE GUIDE RAILS AND THE FABRIC IS COMPLETELY CLOSED.*)
- ✚ **FLAT STANCE**
- ✚ **EASY MAINTENANCE**

ADVANTAGES AND BENEFITS (VERTICAL MOTORIZED OUTDOOR ROLLER BLIND)

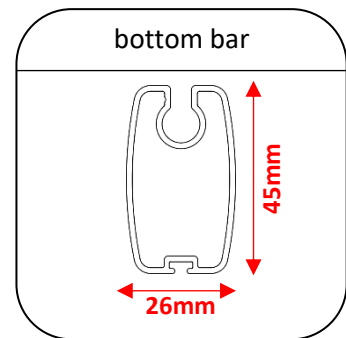
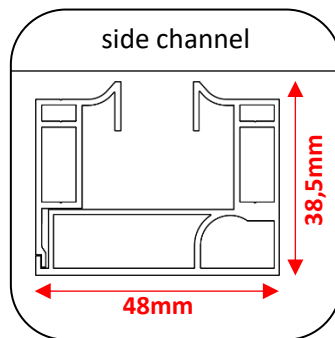
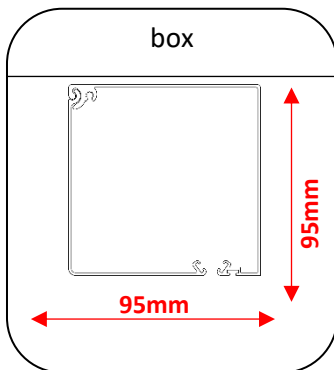
- ✚ COMPACT BOX
- ✚ AESTHETIC INTEGRATION
for small area, renewal buildings, residential or non-residential,
pergolas(stand alone) and new buildings
- ✚ MOTORIZED SYSTEM
- ✚ SIMPLE AND QUICK INSTALLATION,



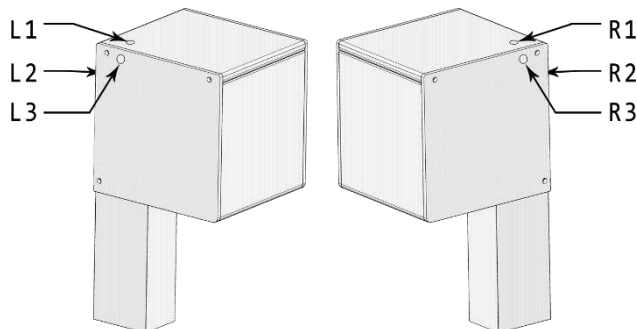
Dimensions	
Min. width	1000mm
Max. width	3400mm
Min. height	1000mm
Max. height	3400mm
Max. surface	~8m ²

Please, ask to us for possible different dimensions!

DIMENSIONS



POSSIBLE CABLE OUT SECTION



cable out	
no	positions
1	top
2	back
3	side
L : Left	
R : Right	

ADVANTAGES AND BENEFITS (VERTICAL MOTORIZED OUTDOOR ROLLER BLIND)

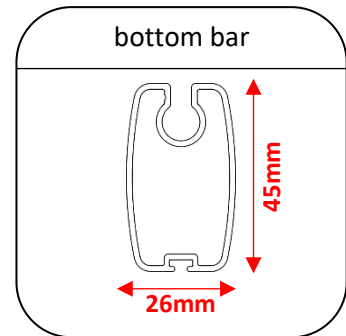
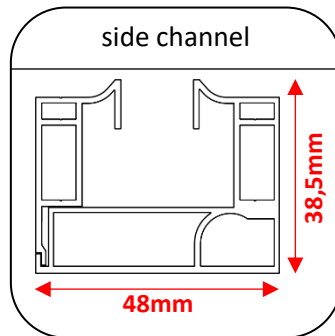
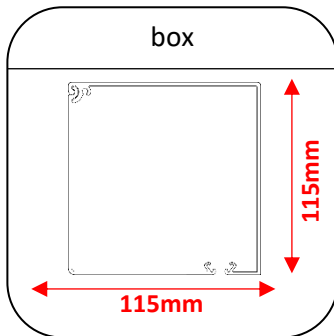
- ✚ COMPACT BOX
- ✚ AESTHETIC INTEGRATION
residential or non-residential, pergolas(stand alone) and
new buildings
- ✚ MOTORIZED SYSTEM
- ✚ SIMPLE AND QUICK INSTALLATION,



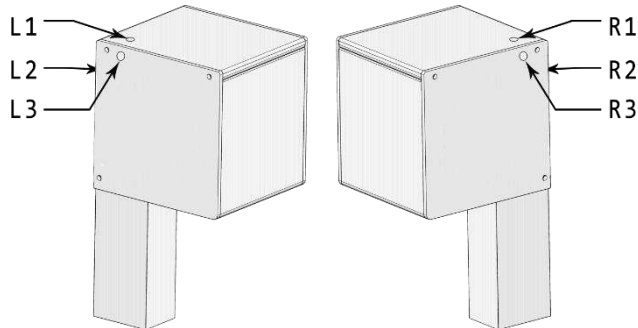
Dimensions	
Min. width	1000mm
Max. width	4400mm
Min. height	1000mm
Max. height	3400mm
Max. surface	~12,8m ²

Please, ask to us for possible different dimensions!

DIMENSIONS



POSSIBLE CABLE OUT SECTION



cable out	
no	positions
1	top
2	back
3	side
L : Left	
R : Right	

ADVANTAGES AND BENEFITS (VERTICAL MOTORIZED OUTDOOR ROLLER BLIND)

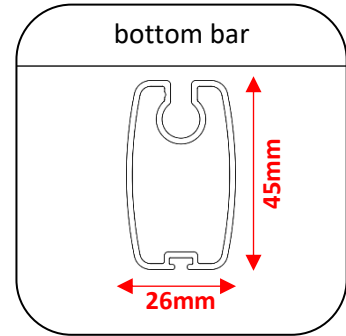
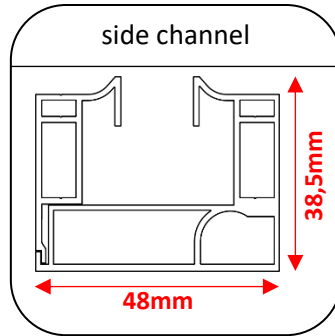
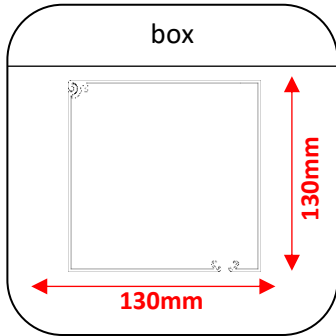
- ✚ COMPACT BOX
- ✚ AESTHETIC INTEGRATION
residential or non-residential, pergolas(stand alone) and
new buildings
- ✚ MOTORIZED SYSTEM
- ✚ SIMPLE AND QUICK INSTALLATION,



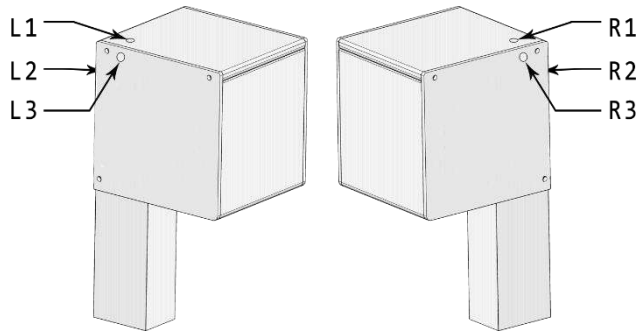
Dimensions	
Min. width	1000mm
Max. width	5400mm
Min. height	1000mm
Max. height	6000mm
Max. surface	~21m ²

Please, ask to us for possible different dimensions!

DIMENSIONS



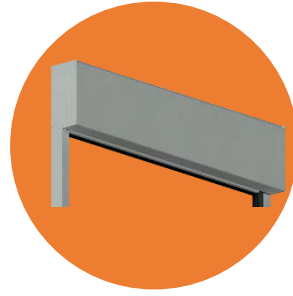
POSSIBLE CABLE OUT SECTION



cable out	
no	positions
1	top
2	back
3	side
L : Left	
R : Right	

ADVANTAGES AND BENEFITS (VERTICAL MOTORIZED OUTDOOR ROLLER BLIND)

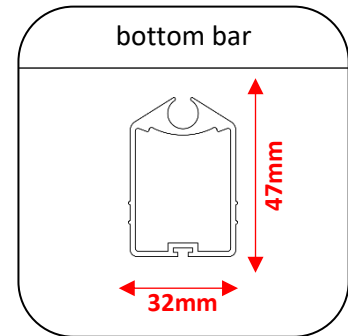
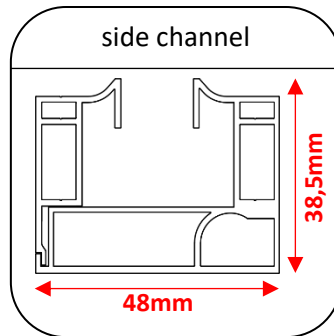
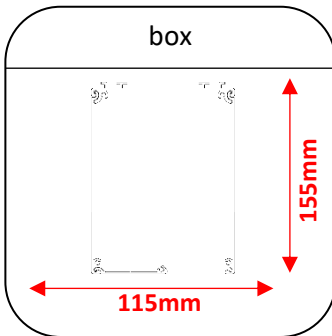
- ✚ NARROW BOX
- ✚ INVISIBLE INTEGRATION
- ✚ MOTORIZED SYSTEM
- ✚ SIMPLE AND QUICK INSTALLATION
- ✚ FABRIC ROLLER REMOVABLE
- ✚ BOTTOM BAR FULL RETRACTABLE



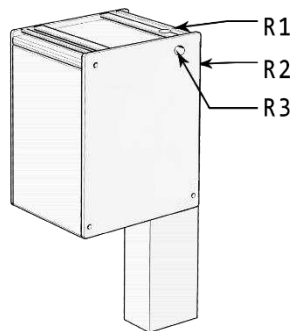
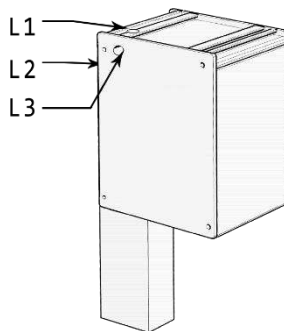
Dimensions	
Min. width	1000mm
Max. width	4400mm
Min. height	1000mm
Max. height	3400mm
Max. surface	~13m ²

Please, ask to us for possible different dimensions!

DIMENSIONS



POSSIBLE CABLE OUT SECTION



cable out	
no	positions
1	top
2	back
3	side
L : Left	
R : Right	

ADVANTAGES AND BENEFITS (VERTICAL MOTORIZED OUTDOOR ROLLER BLIND)

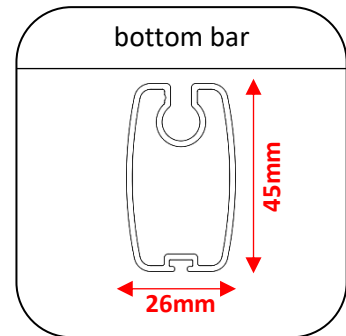
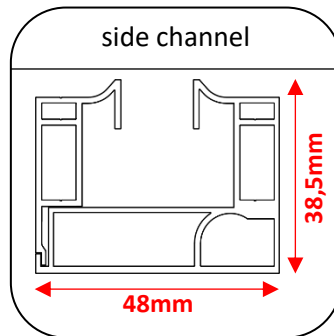
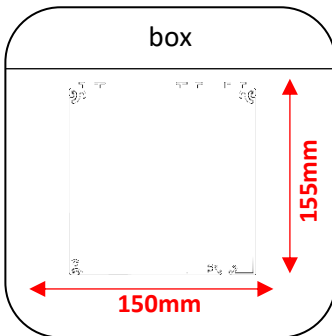
- ✚ COMPACT BOX
- ✚ AESTHETIC INTEGRATION
residential or non-residential, pergolas(stand alone) and
new or old buildings
- ✚ MOTORIZED SYSTEM
- ✚ SIMPLE AND QUICK INSTALLATION



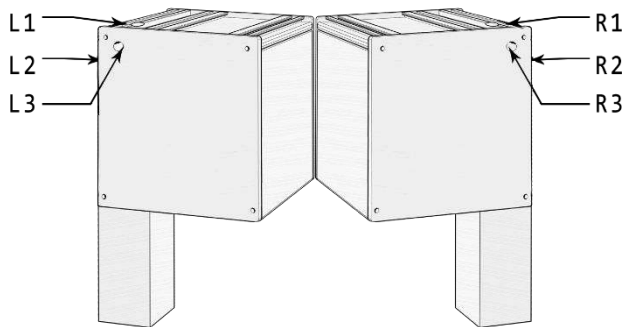
Dimensions	
Min. width	1000mm
Max. width	6000mm
Min. height	1000mm
Max. height	6000mm
Max. surface	~25m ²

Please, ask to us for possible different dimensions!

DIMENSIONS



POSSIBLE CABLE OUT SECTION



cable out	
no	positions
1	top
2	back
3	side
L : Left	
R : Right	

ADVANTAGES AND BENEFITS (VERTICAL MANUEL(spring) OUTDOOR ROLLER BLIND)

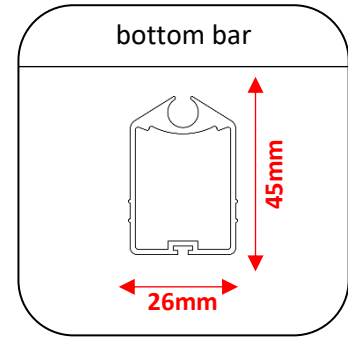
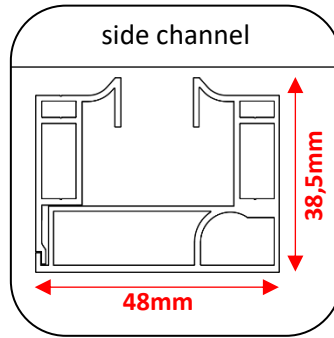
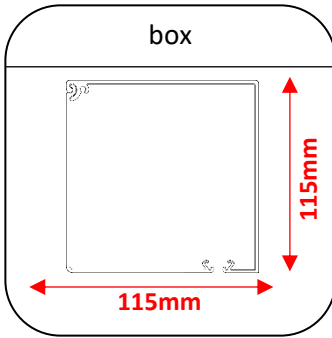
- ✚ COMPACT BOX
- ✚ AESTHETIC INTEGRATION
- ✚ MANUEL SYSTEM WITH SPRING
- ✚ SIMPLE AND QUICK INSTALLATION,

Dimensions	
Min. width	1000mm
Max. width	5000mm
Min. height	1000mm
Max. height	3400mm
Max. surface	~13m ²

Please, ask to us for possible different dimensions!



DIMENSIONS



ADVANTAGES AND BENEFITS (VERTICAL MANUEL(chain) OUTDOOR ROLLER BLIND)

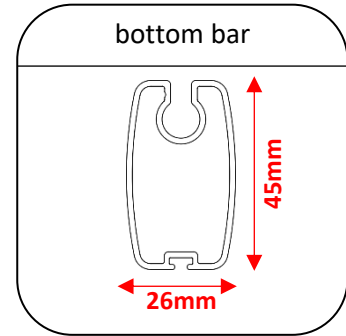
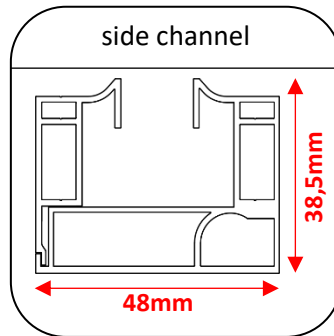
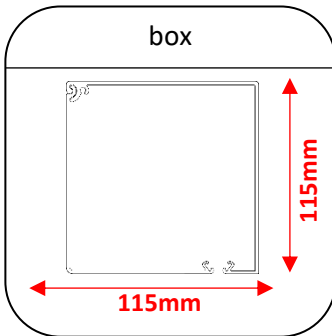
- ✚ COMPACT BOX
- ✚ AESTHETIC INTEGRATION
- ✚ MANUEL SYSTEM WITH CHAIN
- ✚ SIMPLE AND QUICK INSTALLATION.
- ✚ ECONOMICAL SOLUTION

Dimensions	
Min. width	1000mm
Max. width	3200mm
Min. height	1000mm
Max. height	3400mm
Max. surface	~7,5m ²

Please, ask to us for possible diffirent dimensions!



DIMENSIONS



ADVANTAGES AND BENEFITS (HORIZONTAL MOTORIZED OUTDOOR ROLLER BLIND)

- ✚ COMPACT BOX
- ✚ AESTHETIC INTEGRATION
- ✚ MOTORIZED SYSTEM
- ✚ SIMPLE AND QUICK INSTALLATION.
- ✚ TYPE OF INSTALLATION, INDOOR OR OUTDOOR

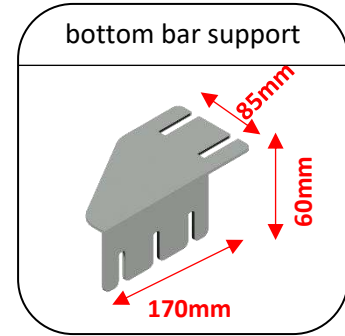
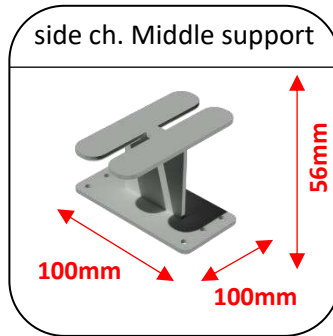
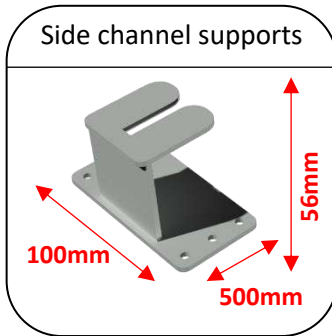
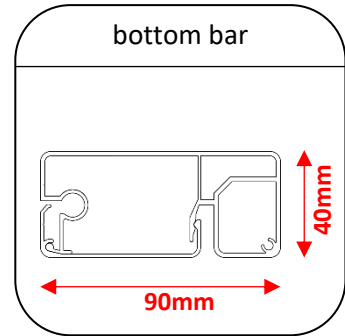
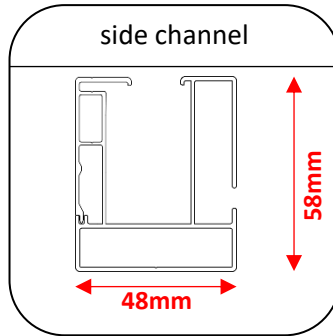
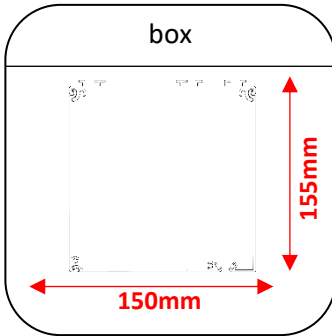


Dimensions	
Min. width	1000mm
Max. width	6000mm
Min. height	1000mm
Max. height	6000mm
Max. surface	~24m ²

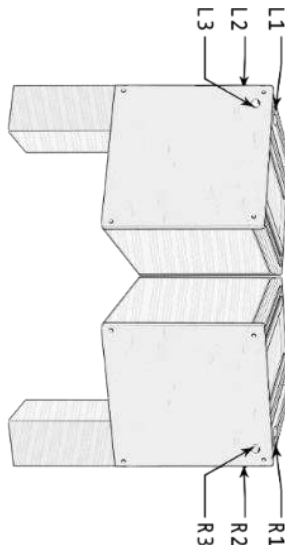
Please, ask to us for possible different dimensions!



DIMENSIONS



POSSIBLE CABLE OUT SECTION



cable out	
no	positions
1	top
2	back
3	side
L : Left	
R : Right	