

ZIPSCREEN SYSTEMS

TECHNICAL DATASHEET



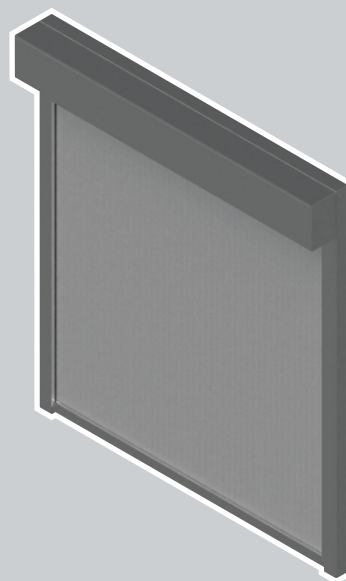
Parts



Material



Certificates





ABOUT US

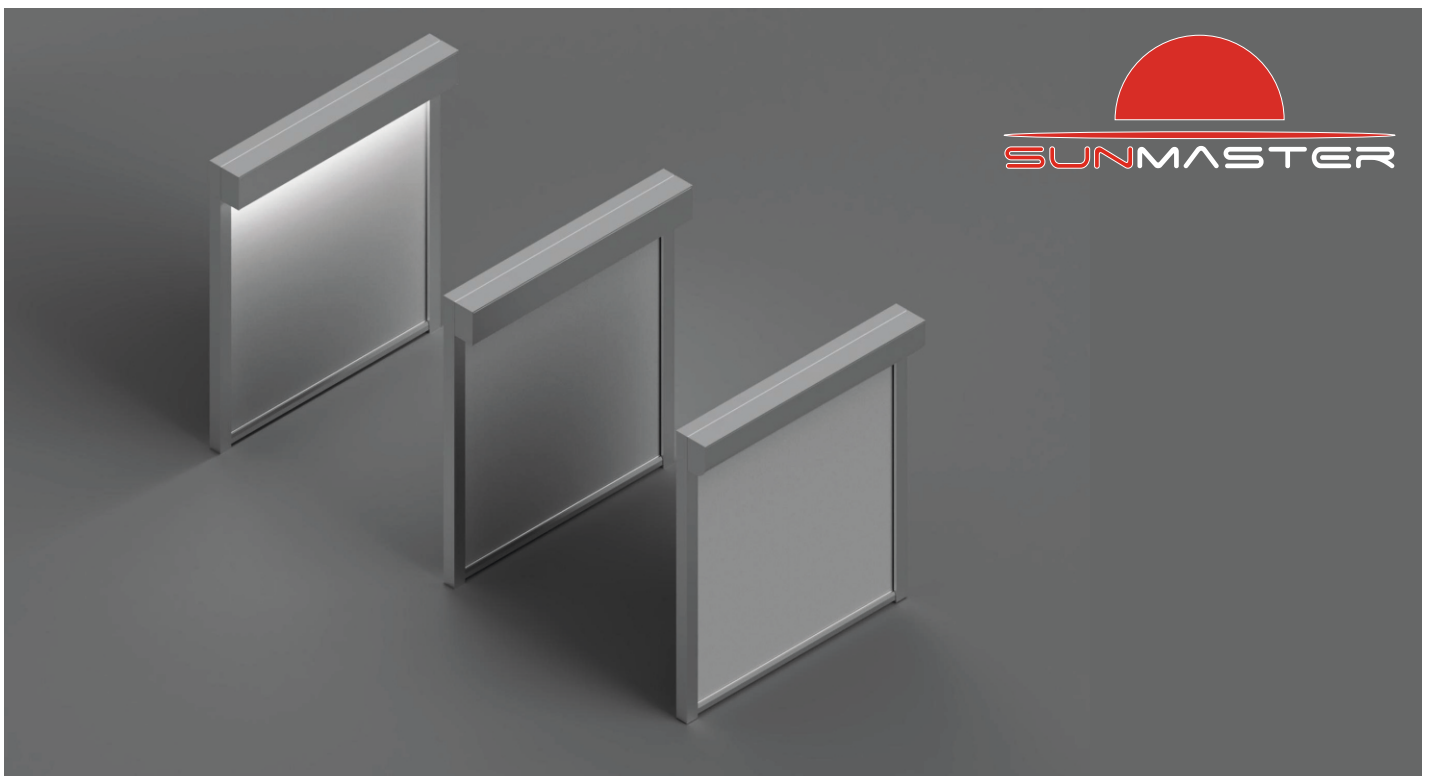
Im Jahr 2008 wurde Konzept Terrasse von Geschäftsführer Ünal M. ins Leben gerufen. Unser Ziel ist es, unseren Kunden maßgeschneiderte und hochwertige Lösungen anzubieten, um ihr OutdoorErlebnis zu verbessern.

Unser Unternehmen betreibt eigene Produktionsstätten, um spezielle Lösungen gemäß den individuellen Bedürfnissen unserer Kunden zu entwickeln. Auf diese Weise können wir einen schnellen und effizienten Montageprozess sicherstellen. Wir sind bestrebt, unsere Produktionsprozesse kontinuierlich zu überprüfen und zu verbessern, um unsere Qualitätsstandards auf höchstem Niveau zu halten.

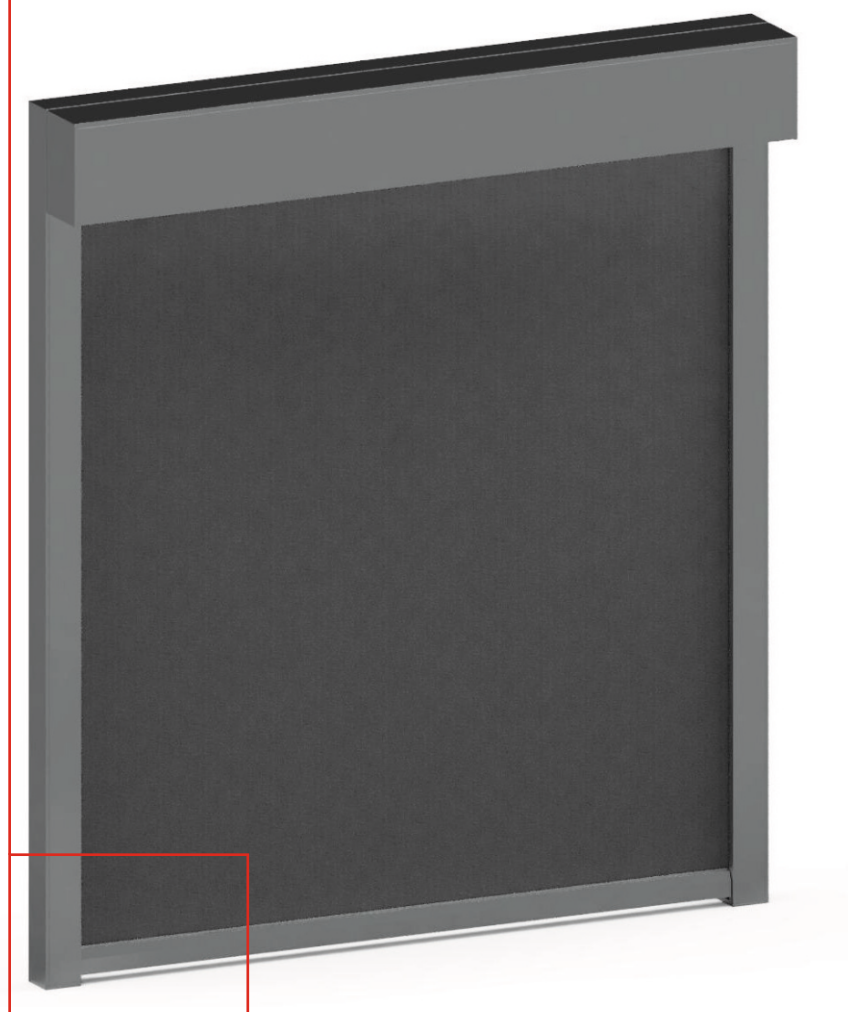
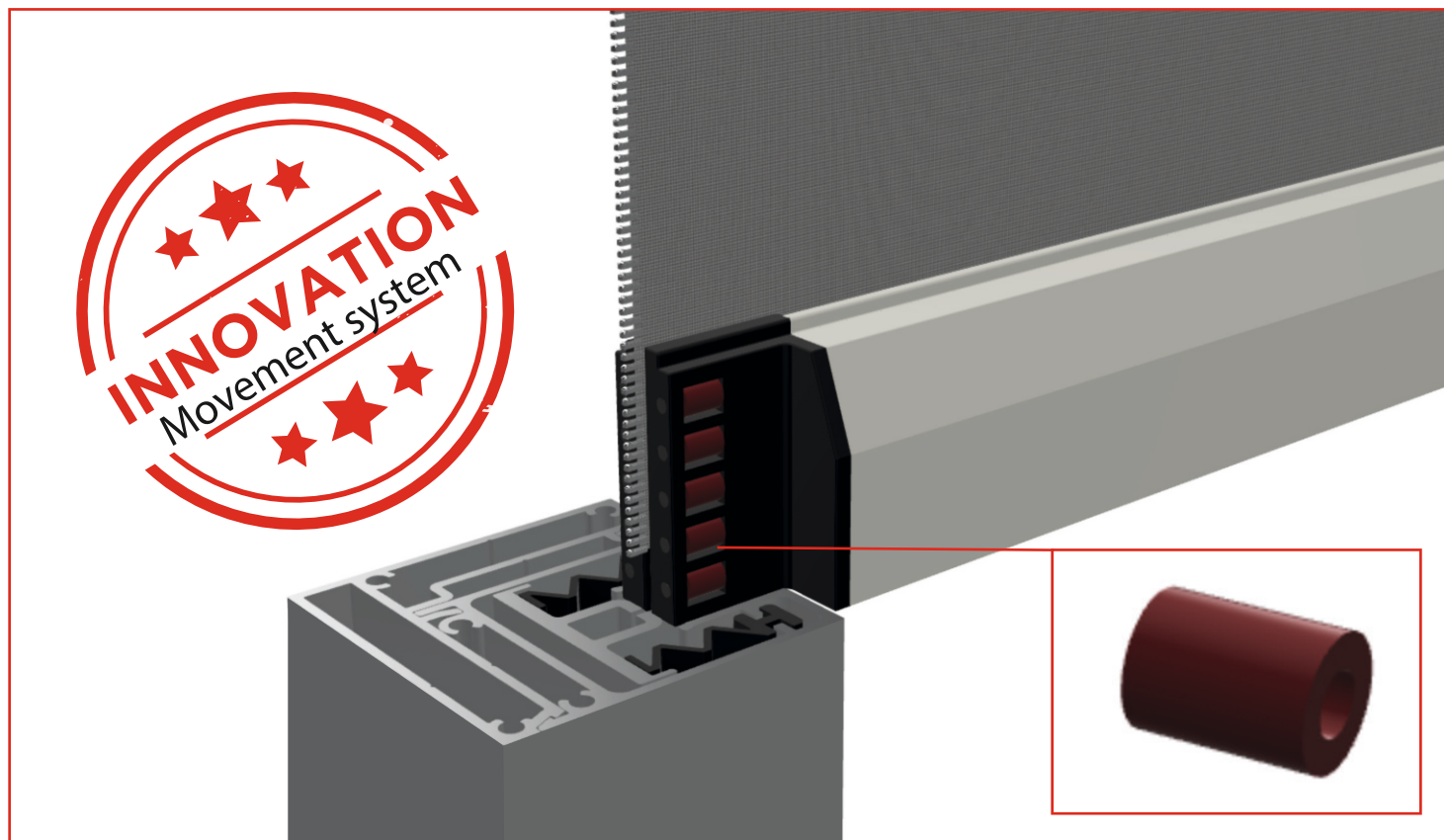
Seit unserer Gründung verzeichnen wir kontinuierliches Wachstum und Entwicklung, um die Kundenzufriedenheit und die Servicequalität kontinuierlich zu steigern. In diesem Sinne arbeiten wir eng mit der Weinor GmbH zusammen, einem führenden Unternehmen im Bereich Sonnenschutz und Markisen, um unseren Kunden umfassendere und innovativere Lösungen anzubieten.

I. Product introduction and features

- a.** Sunmaster, is a first class product designed to be used with confidence and comfort in all four seasons.
- b.** It provides a usage opportunity where the fabric can be gathered upwards in the vertical direction and closed completely when desired.
- c.** ZipScreen is made of special fabric mounted on a modular aluminum construction carrier frame, with aluminum profiles at the top / bottom and zipper frame systems suitable for clamping from the sides.
- d.** Since the fabric tension of the zip system is very high compared to similar products, its resistance against external wind and other pressures is quite high.
- e.** The fabric system, which is framed with profiles from the top and bottom, is clamped to the side stitch rails with the zipper attachment from the sides.
- f.** The lower aluminum profile of the zip frame is completely included in the upper box after the system is opened and is not visible from the outside.
- g.** With the plastic wheeled car system added to the left and right sides of the lower aluminum profile of the zip frame, the ease of movement is provided at maximum level when the system is opened.
- h.** Our zip systems offer our customers three options to choose from: Type1 - Top box profile with LED light, Type2 - Standart top box profile , Type3 - Round top box profile.

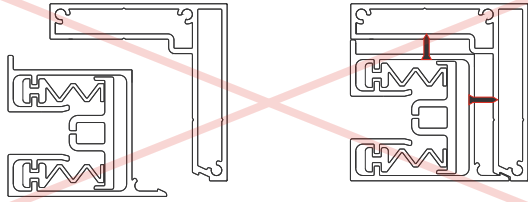


II. Innovative solutions



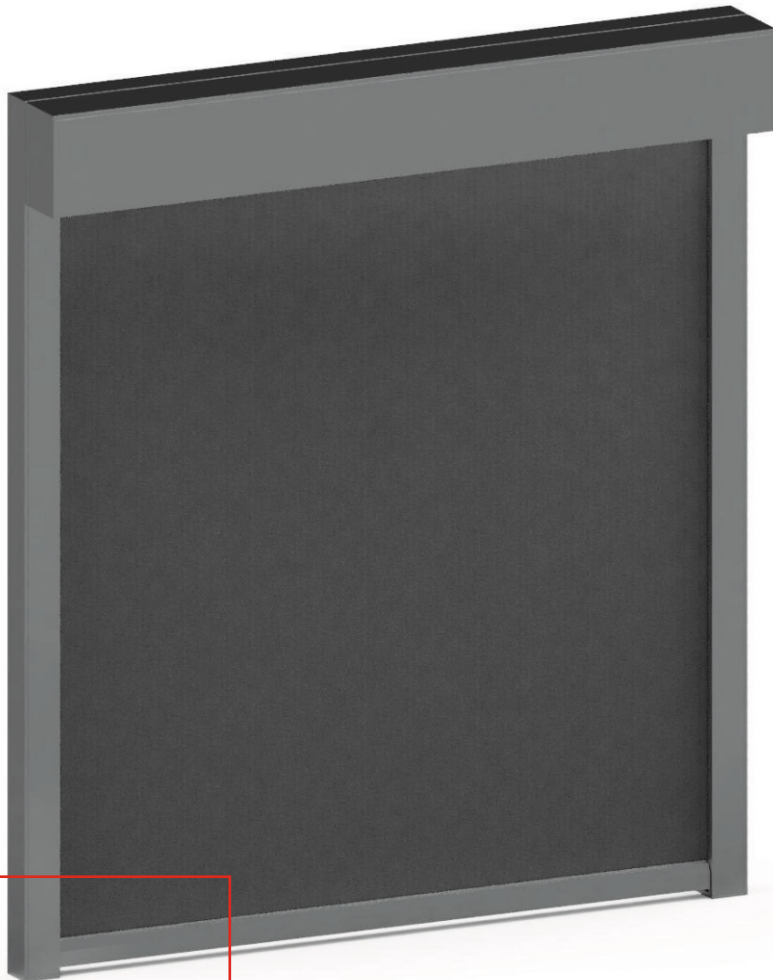
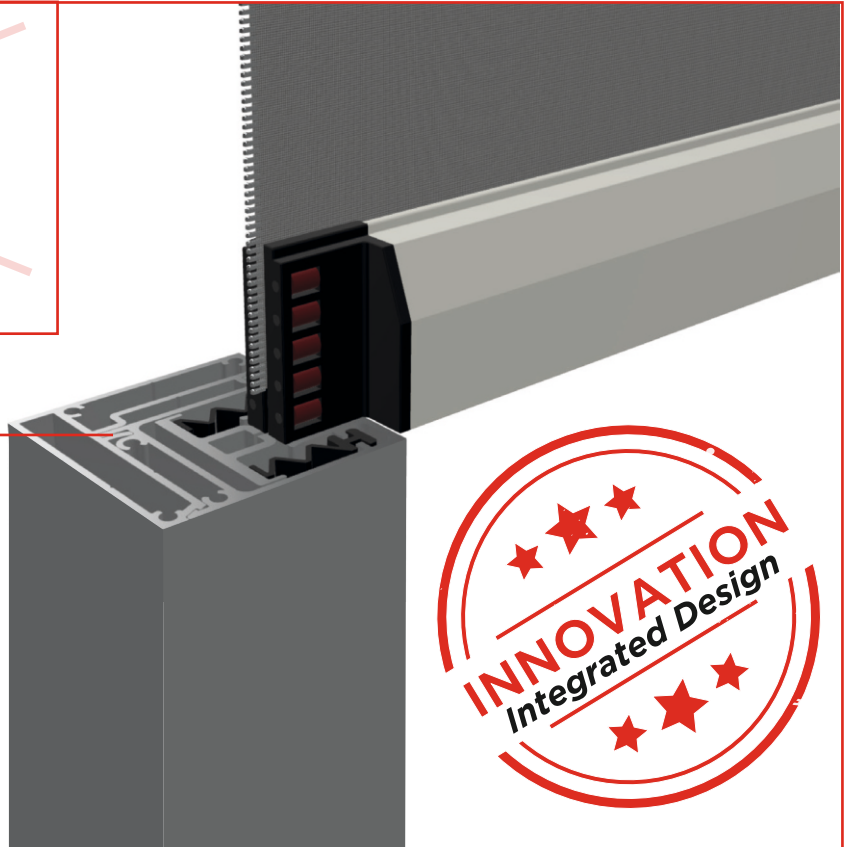
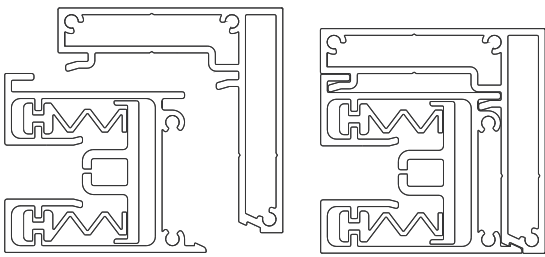
The Unique Wheel System of the Lower Carrier has a silent movement system consisting of 10 plastic wheels, 5 at the front and 5 at the rear.

II. Innovative solutions



Standard old type design example

New, interlocking design
that does not require
fasteners



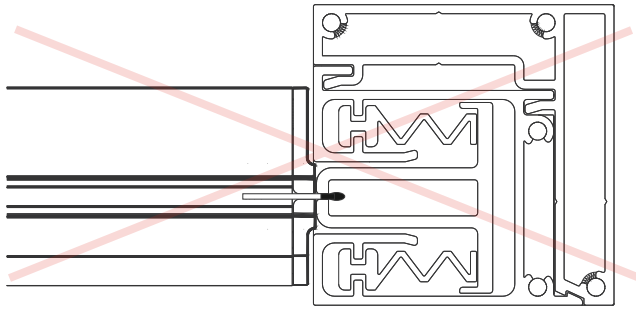
Post profiles can be
mounted to the other
profile without using
fasteners with specially
designed clamping teeth
as shown above.


SUNMASTER

Konzept Terrasse

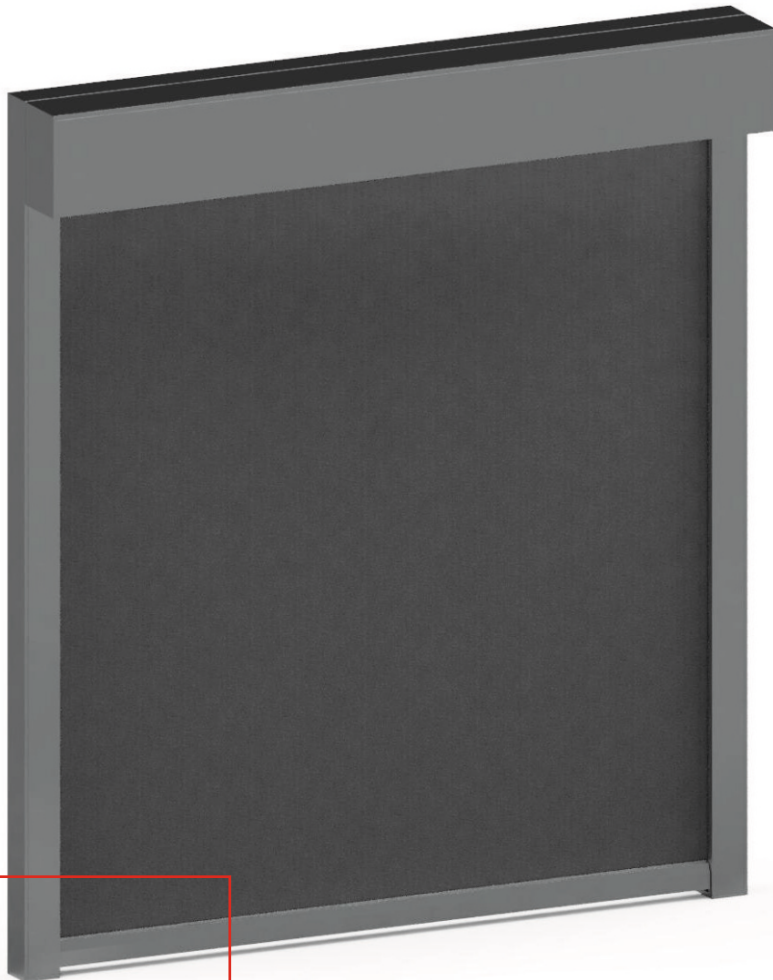
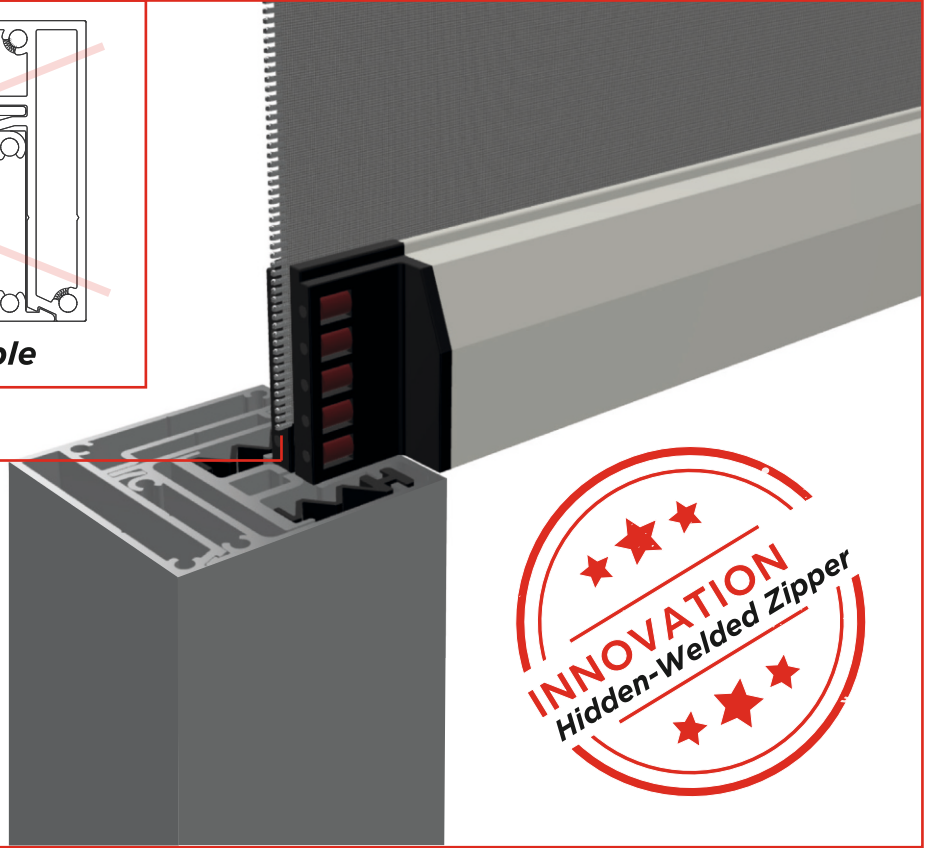
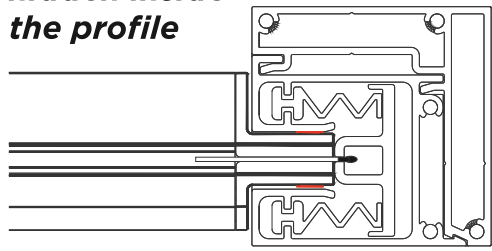
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II. Innovative solutions



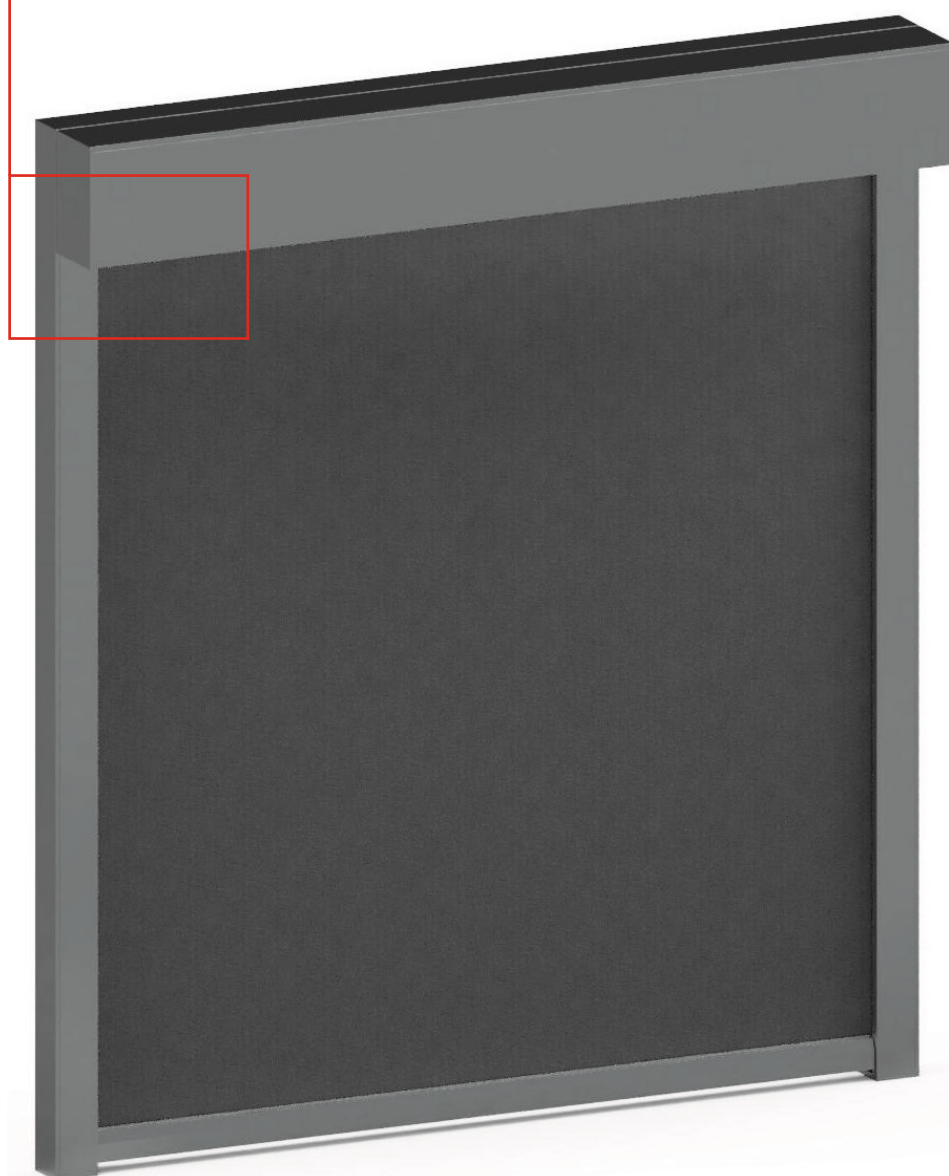
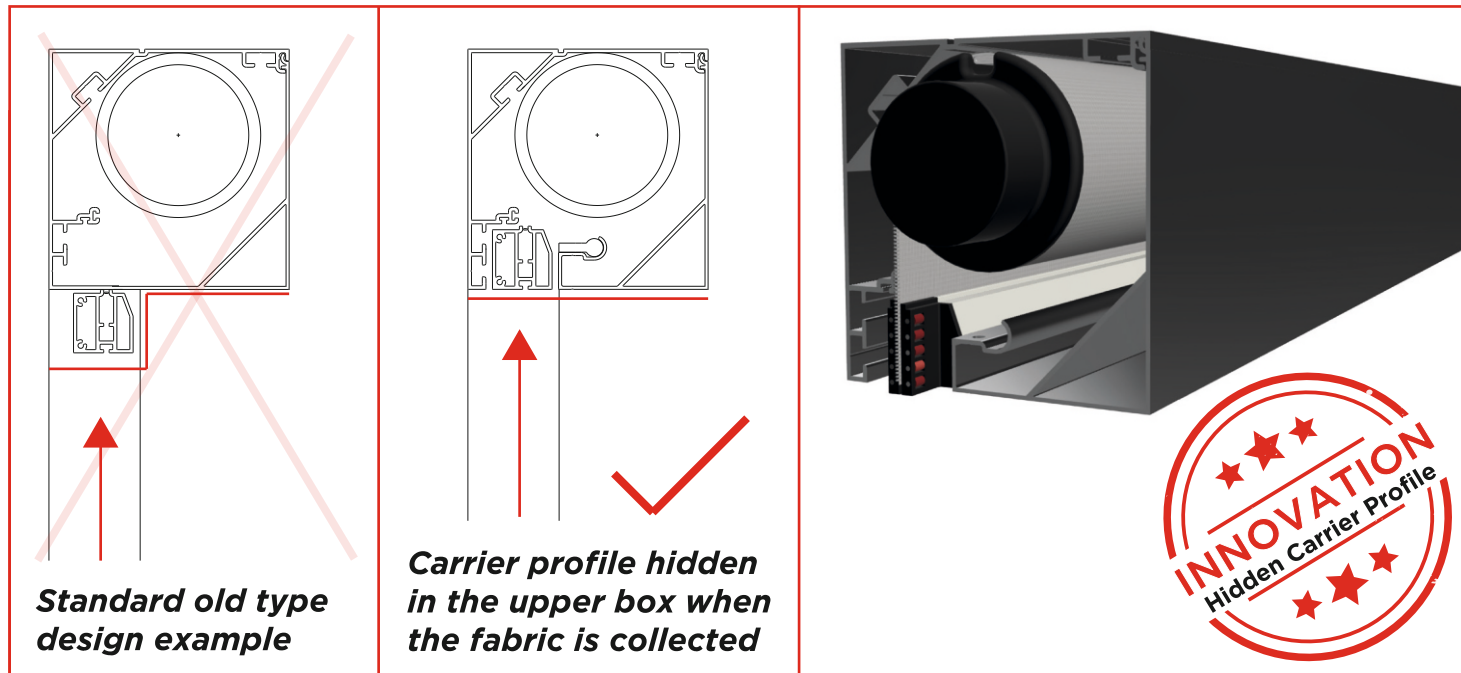
Standard old type design example

Special design with Zip-Fabric and zipper welding kept hidden inside the profile ✓



The zipper is concealed welded and hidden inside the frame profiles. It is not visible from the outside after the assembly is completed.

II. Innovative solutions



When the fabric box starts to gather into the profile, the carrier profile is also hidden in the box profile at the end.

II. Innovative solutions

Zipscreen systems, designed as multiple options, are offered to our customers with 3 different types.

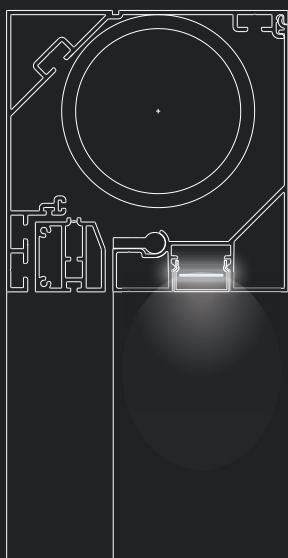
Tip 1 - Top box profile with LED lighting

Tip 2 - Standart top box profile

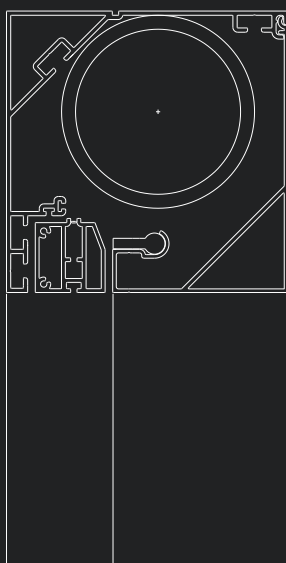
Tip 3 - Oval top box profile



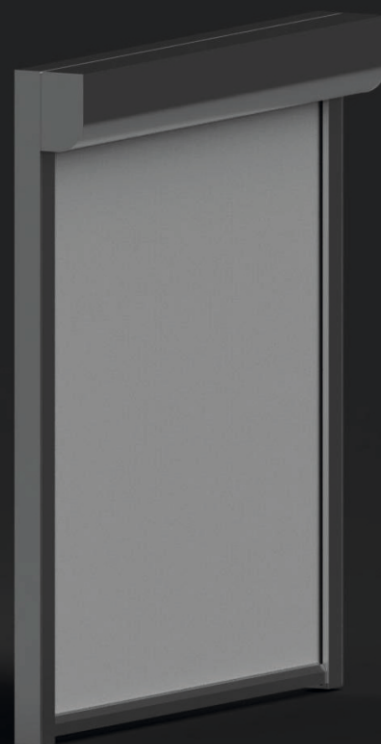
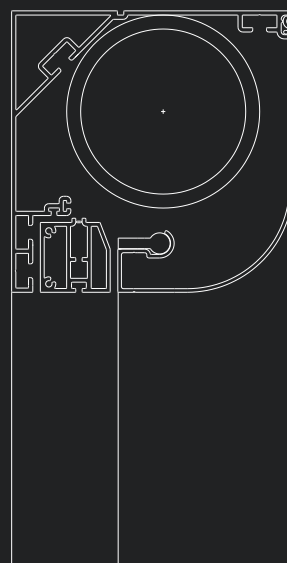
Tip 1



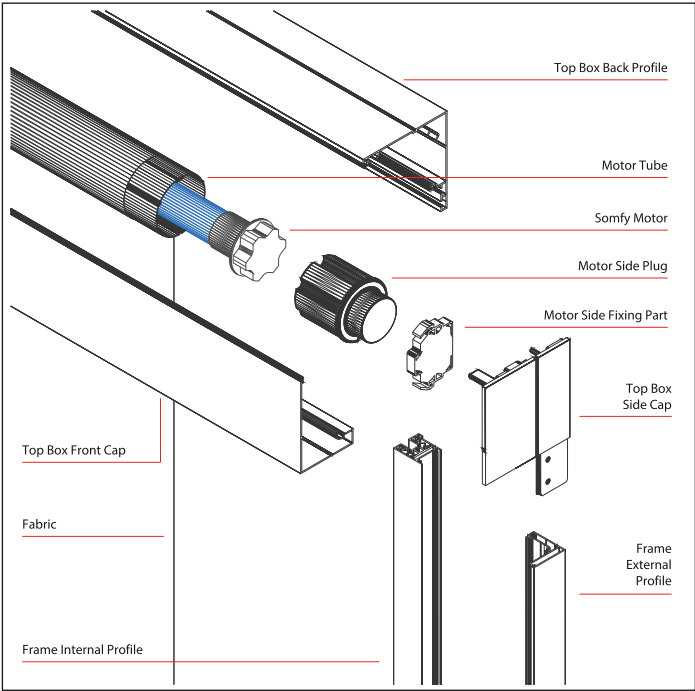
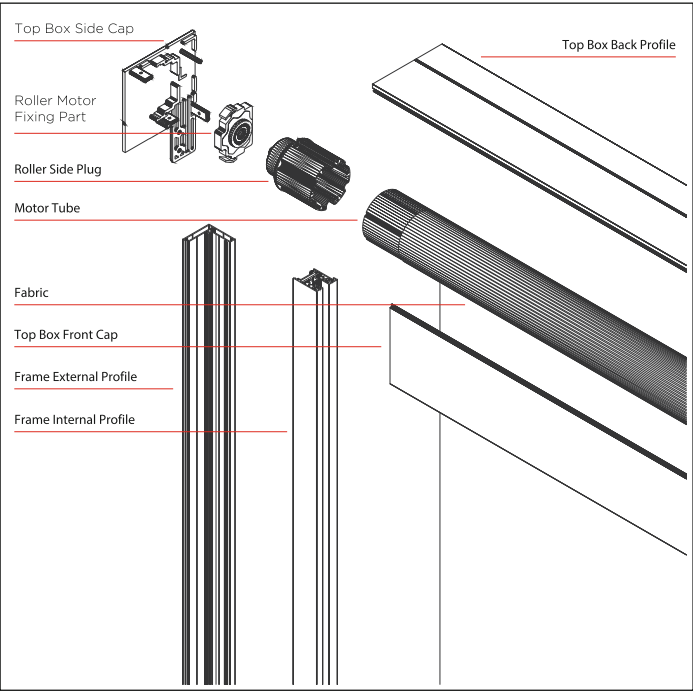
Tip 2



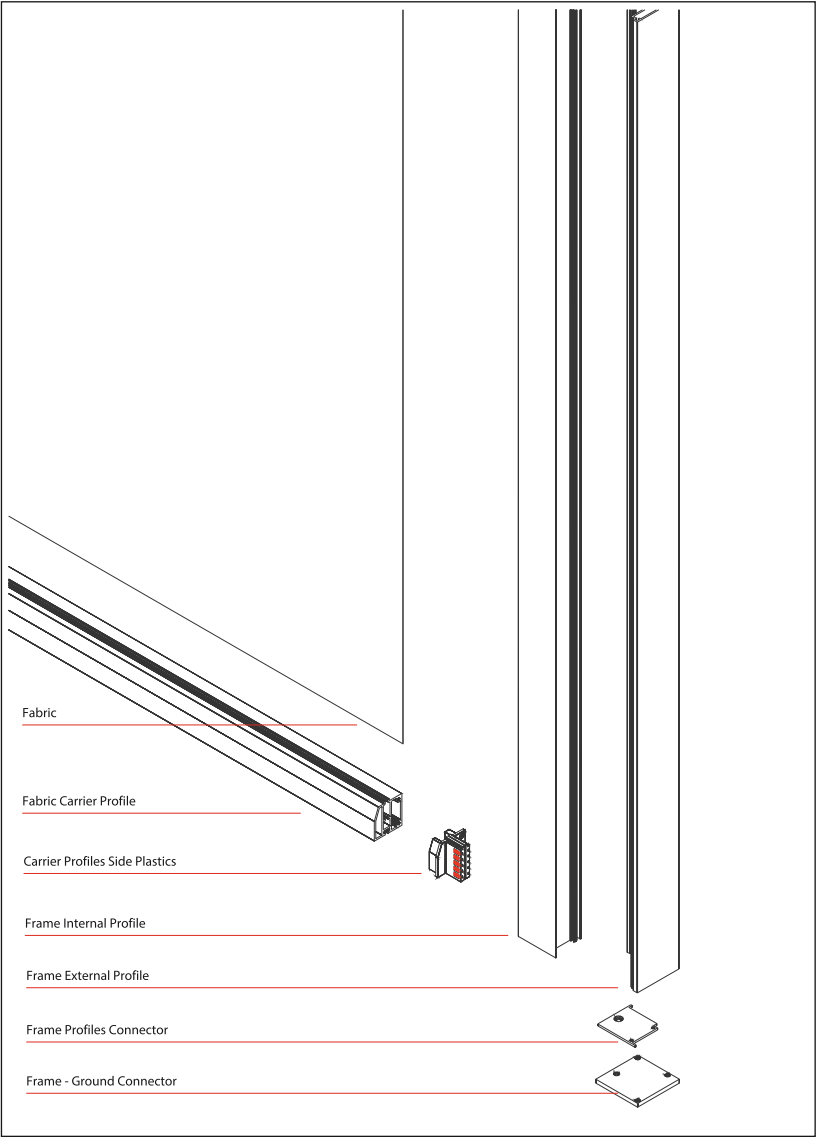
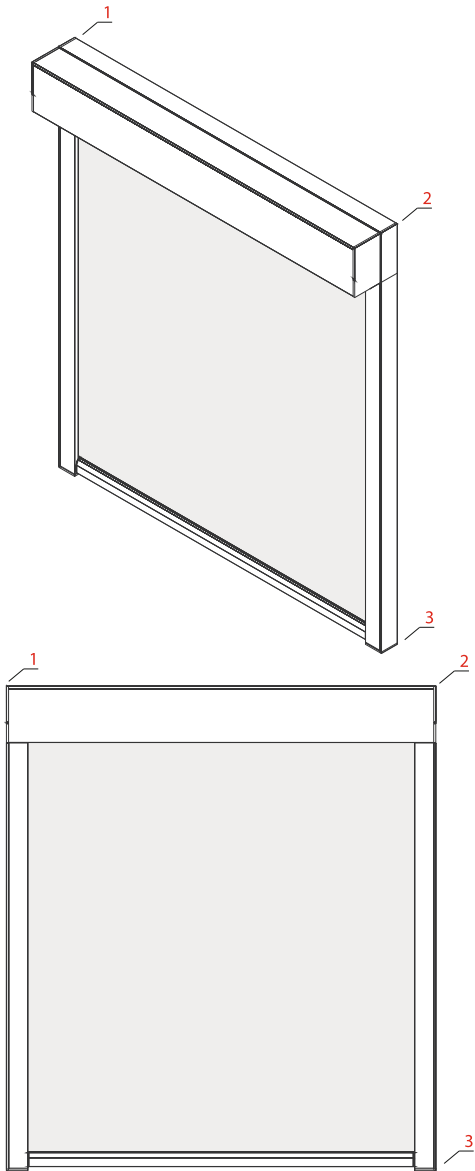
Tip 3



III. Connection point details

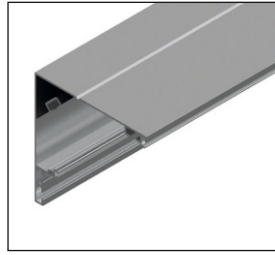
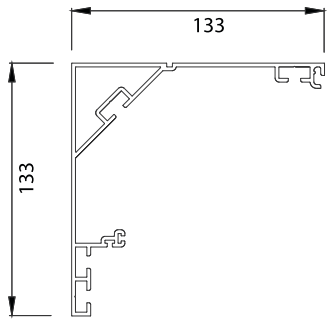


1. Frame - Ground 2. Frame - Motor Box (Right) 3. Frame - Motor Box (Left)

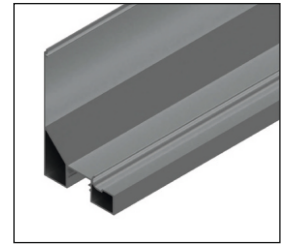
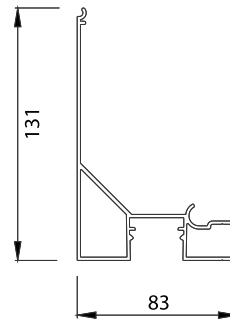


IV. Aluminum profiles, sections and properties

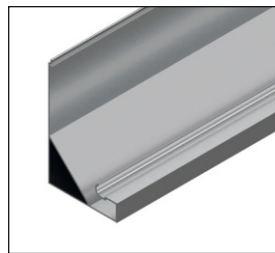
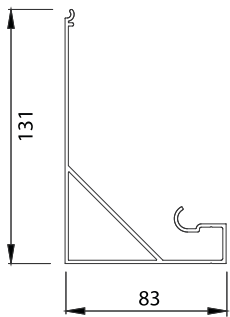
Top Box Back Profile



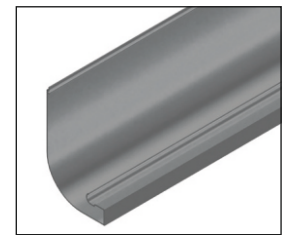
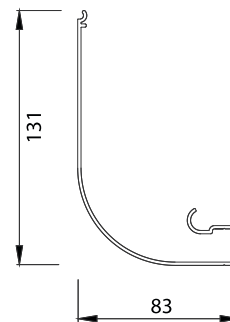
Front Profile - Type 1



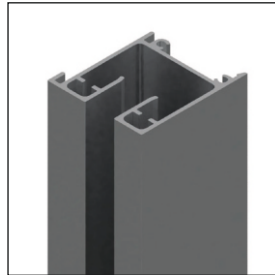
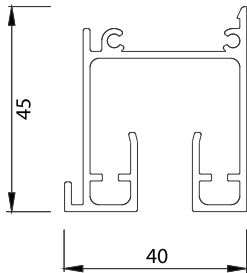
Front Profile - Type 2



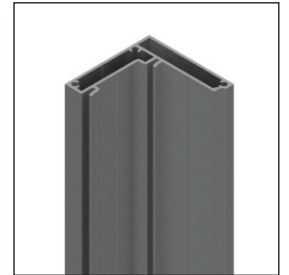
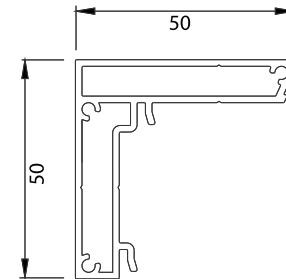
Front Profile - Type 3



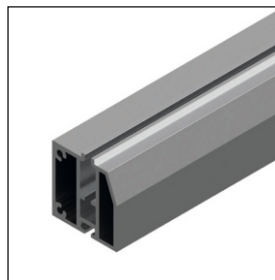
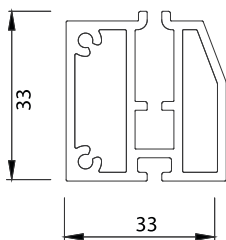
Frame Internal Profile



Frame External Profile



Fabric Carrier Profile



Chemical Compositions - EN573-3 (EN - AW %)

Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Other		Al
									Each	Total	
6060	0,30-0,60	0,10-0,30	0,10	0,10	0,35-0,60	0,05	0,15	0,10	0,05	0,15	Total

Mechanical Properties EN 755-2

Alloy	Temper	Wall Thickness e mm*	Tensile Strength Rm Mpa min	Test Resistance Rpo,2 Mpa min	Elongation		Brinell Hardness HB**
					A50mm % min	A % min	
EN -AW 6060	T4	e ≤ 25	120	60	14	16	45
	T5	e ≤ 5	160	120	6	8	55
	T6	e ≤ 3	190	150	6	8	65
		3 < e ≤ 25	170	140	6	8	60
	T66	e ≤ 3	215	160	6	8	70
		3 < e ≤ 25	195	150	6	8	65

Physical Properties	
Alloy EN - AW	6060
Metallic Range °C	585-650
Density g/cm³	2,70
Electrical Conductivity MS/m	34-38
Thermal Cond. W/(m K)	200-220
Essence J/(Kg K)	898
Thermal expansion values	
-50 to 20 °C (10 ⁻⁶ K)	21,8
20 to 100 °C (10 ⁻⁶ K)	23,4
20 to 200 °C (10 ⁻⁶ K)	24,5
20 to 300 °C (10 ⁻⁶ K)	25,6
Elasticity Coefficient Mpa	69500
Shear Coefficient Mpa	26100

V. Powder coating and process properties

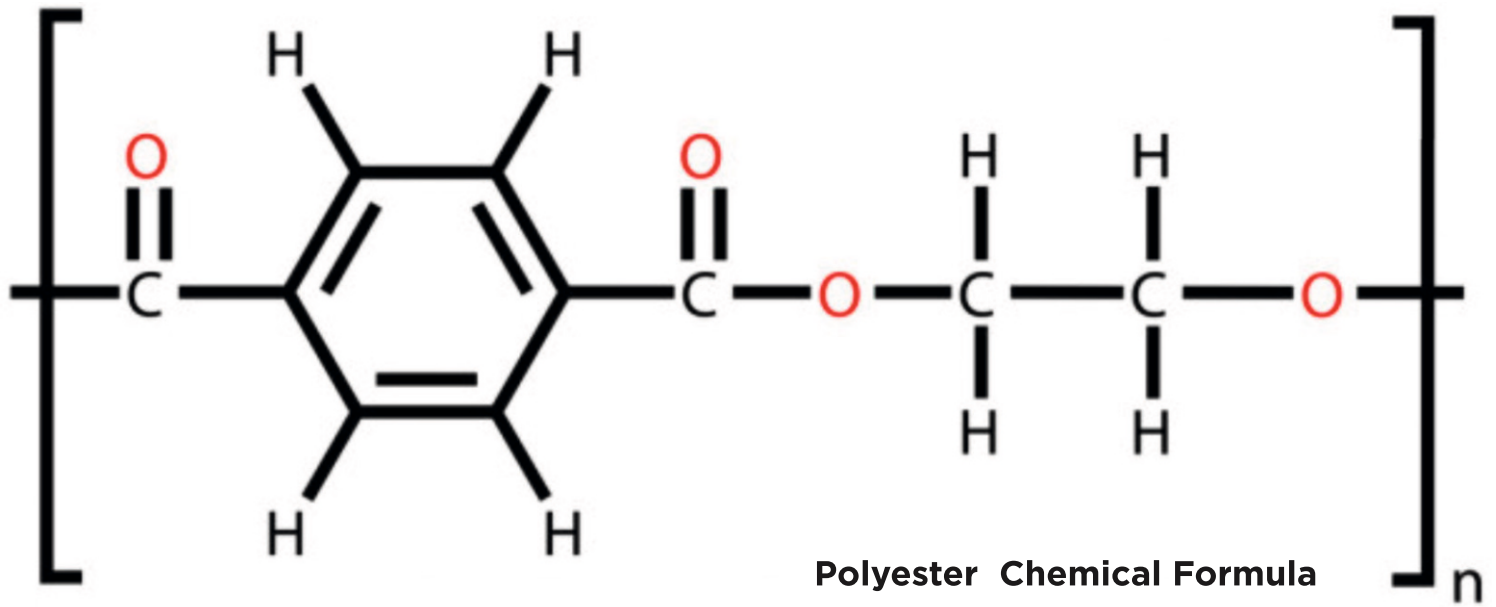
Konzept gives a 5-year paint warranty for its powder coated products. All aluminum and steel materials used in Sunset products are manufactured by painting with PE Electrostatic Powder Paint. Sunset is a manufacturer company that has chemical purification and abrasion facilities, which are an important part of the powder coating process. Sunset, uses on all products, Europe and Turkey's finest manufacturers Powder JOTA's, PULVE and IBA brand's 1.Quality Polyester Powder Coating. Sunset paint quality complies with QUALICOAT standards. Every project produced in the Sunset factory goes through a quality control process based on the experiment and observation staff determined by QUALICOAT.A special "Quality Certificate" is prepared for each order and delivered to our customers. Sunset delivers to its customers test plates and test reports showing that these tests have been performed together with the products.

Test Standards :

Within the QUALICOAT admissions, all tests listed below must be passed:

- Adhesion Test (EN ISO 2409)
- Bending Test (EN ISO 1519)
- Impact Test (ASTM D2794)
- Cupping Test (EN ISO 1520)
- Surface Treatment Baths
 - There are 5 5m3 bathrooms
 - Acidic degreasing
 - Mains rinse
 - DI rinse
 - Passivation Bath
 - DI rinse





VI. Fabric

RECASENS 3500 P
BCN 1886

Sunmaster is working partner with RecScreen and Serge Ferrari, the world's largest and highest quality ZIP fabric manufacturers. The fabric models we use are shown in the table below.



R-000



R-100



R-400



R-700

Solar Heat Control Properties

	REF.	COLOR / COLOUR	T.v. (%)	T.s. (%)	R.s. (%)	A.s. (%)	GTOT INT.	GTOT EXT.
	000	BLANCO BLANCO / WHITE WHITE	18	23	53	24	0,36	0,18
	001	BLANCO LINO / WHITE LINEN	18	21	37	42	0,39	0,17
	002	BLANCO SABLE / WHITE SABLE	17	25	48	27	0,40	0,17
	003	BLANCO NEGRO / WHITE BLACK	10	22	31	47	0,63	0,16
	004	BLANCO GRIS PERLA / WHITE PEARL GRAY	19	27	50	23	0,39	0,17
	005	BLANCO GRIS OSCURO / WHITE DARK GRAY	12	45	34	21	0,59	0,16
	008	BLANCO PLATA /WHITE SILVER	16	17	56	27	0,39	0,17
	009	BLANCO ORO / WHITE GOLD	15	11	53	36	0,47	0,17
	100	LINO LINO / LINEN LINEN	19	22	30	48	0,50	0,17
	300	NEGRO NEGRO / BLACK BLACK	7	7	4	89	0,72	0,11
	307	NEGRO BRONCE / BLACK BRONZE	8	6	4	90	0,67	0,12
	308	NEGRO PLATA /BLACK SILVER	8	10	8	82	0,66	0,14
	309	NEGRO ORO / BLACK GOLD	9	9	7	84	0,64	0,14
	313	NEGRO TOBACO /BLACK TOBACCO	8	6	4	90	0,66	0,12
	400	GRIS PERLA GRIS PERLA / PEARL GRAY PEARL GRAY	18	23	53	24	0,59	0,16
	405	GRIS PERLA GRIS OSCURO / PEARL GRAY DARK GRAY	10	19	24	57	0,60	0,15
	700	ANTRACITA ANTRACITA /ANTHRACITE ANTHRACITE	8	8	4	88	0,65	0,14

Tv: Transmisión de luz visible / Visible light transmission

Ts: Transmisión solar / Solar transmission

Rs: Reflexión solar / Solar reflection

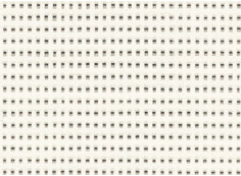
As: Absorción solar / Solar absorption

GTOT: Factor solar total / Total solar energy transmittance

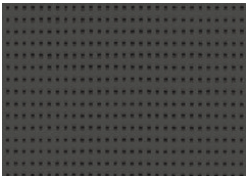


Serge Ferrari

Soltis 86



White
86-2044



Concrete
86-2167



Anthracite
86-2047

Soltis W-96



Boulder
96-2171*



Anthracite
96-2047*

Technical properties	Soltis 86	Standards
Weight	380 g/m ²	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
Flame retardancy		
Euroclass	B-s2,d0/ EN 13501-1	
Management systems		
for Quality		ISO 9001
Certifications, labels, guarantees, recycling		

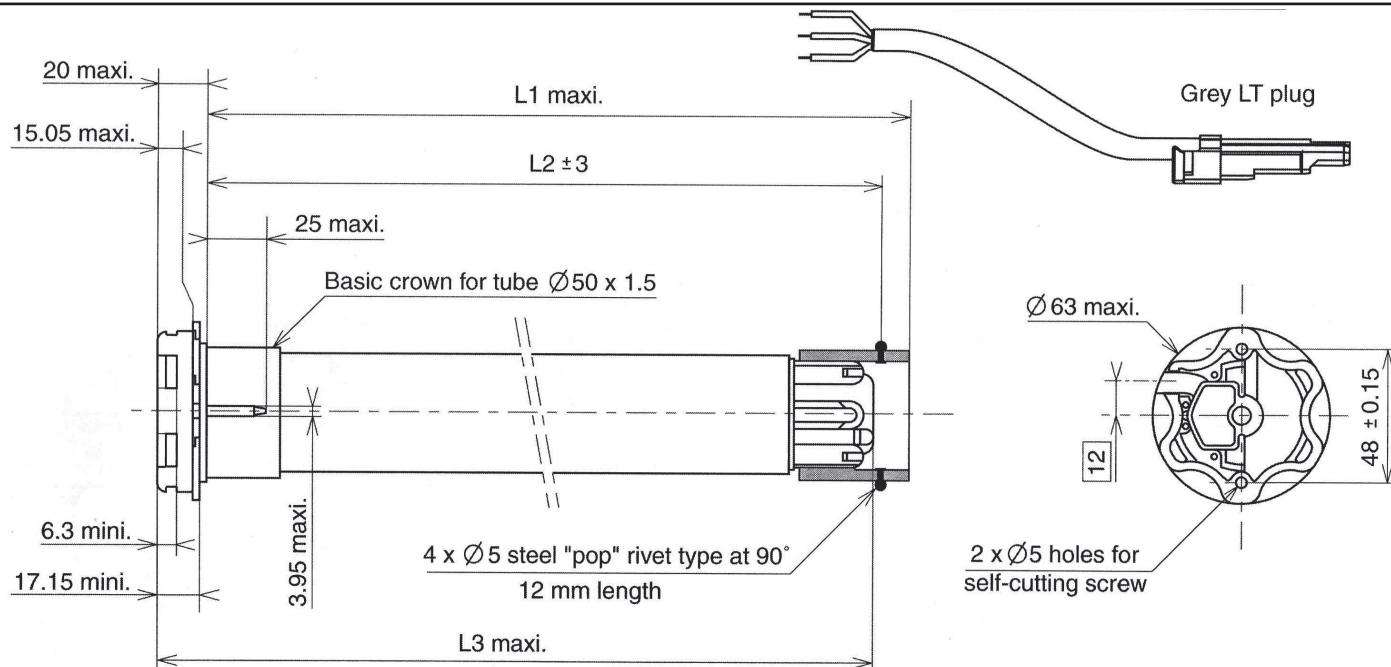
Soltis	Lounge 96	Technical properties	Standards
Openess factor	4%		
Weight	400 g/m ²		EN ISO 2286-2
Thickness	0,45 mm		
Roll width	120 cm — 267 cm		
		Roll length	
Standard piece format	40 lm		
		Physical properties	
Breaking strength (warp/weft)	220/220 daN/5 cm		EN ISO 1421
Tearing strength (warp/weft)	30/25 daN		DIN 53.363
		Fire resistance	
Rating	M2		NFP 92-507
		Quality management system	
Certification			ISO 9001
		Tools and services	
— Custom thermal performance simulation service for your projects and associated Soltis solar protection systems: please ask your Serge Ferrari contact			
— Evaluation tool for energy savings achieved with Soltis solar protection systems: www.textintergie.org			
— Document and photo library: www.sergeferrari.com			

VII Motor ve remote control

Movement should be provided with 1 20/12 Somfy Altus 50 Motor for each product. The motor is controlled by Somfy RTS Telis 1 Remote Control.



Somfy Motor Seciton

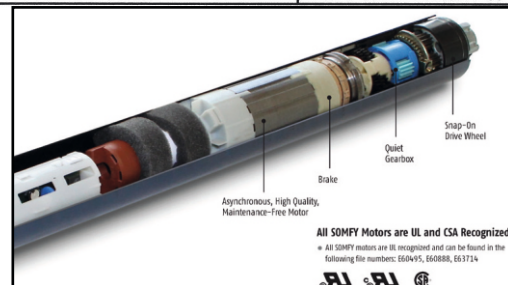


ALTUS 50 RTS TECHNICAL DATA

DMKI - FPTE
RANGE 1
ALTUS 50 RTS RANGE 1R2

27/02/2007 PAGE : 1/3

Type of head	Star head
Nominal voltage	230 V AC
Power supply tolerances	207 - 253 V AC
Frequency	50 Hz
Thermal time	4 minutes
Number of wires of the cable	3
Wire section	0.75 mm ²
Type of limit switch unit	Electronic
Capacity of the LSU	250 turns
Repeatability	< ± 3°
System of protection	IP 44
Interface drawing	Screw implantation for LT50 mounting 206810-Wheel interface LT50 206821-Crown interface LT50 206822-Interface drawing star head LT50 and LT50PA/PS 206823
Radio frequency	433.42 MHz
Coding	Rolling code 16 million of possibilities
Capacity of memory	12 different transmitters plus 3 wireless sensors
Antenna	Integrated antenna
Range	20 m with 2 reinforced concrete walls to be passed through
R&TTE (Radio Equipment and Telecommunications Terminal Equipment Directive)	Dir 1999/5/CE
Safety Security	EN 60335 - 2 - 97
Electromagnetic compatibility	EN 301489 - 3
Radio	EN 300-220 - 3
Basic crown for tube Ø	50 x 1.5 mm
Temperature working range	Normal use : -10°C to +40°C Exceptional use (20% of the life time not simultaneous) : -20°C to + 70°C
Noise level	According to SOMFY measures (for information only).Worse value : in load up direction during 10 seconds.



	Nm	rpm		mm	mm	mm	mm	W	A	°C		kg	dBA
Introduction	To	Speed	Referance	L1 max.	L2 (±3 mm)	L3 max.	Tube	Power	Current	Thermal Measure	Braking Type	Weight	Sound
ALTUS 50 RTS 20/12	20	12	5048058	655	640	663	590	140	0,65	150	Sliding	2,23	48