

# Model: LEVEL Pergola®

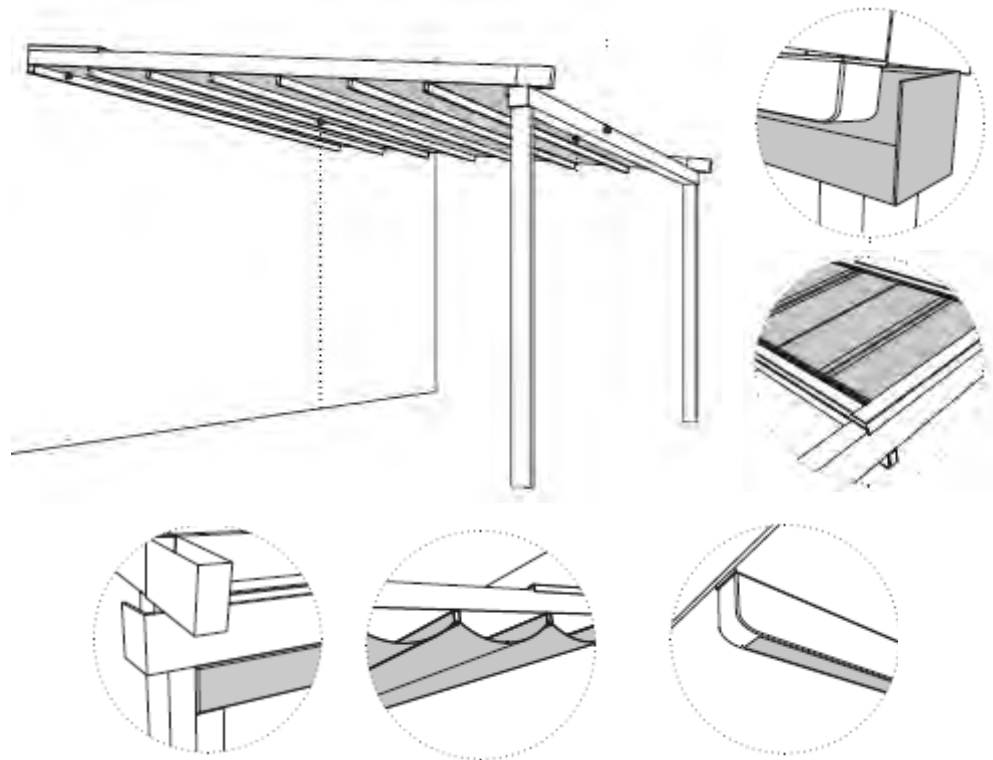
Revised 01/29/2019



Standard Frame Colors	Maximum Width	Maximum Projection	Options
9 standard Sunair colors plus Corten & Iron Grey	5m / 16' 5" Type 1 9m / 29' 6" Type 2 13m / 42' 7" Type 3	6.5 meters / 21' 4" proj.	Undercover, LEDS, Heaters, Hood, Side Screens

## PRODUCT FEATURES:

- Retractable fabric roof pergola.
- Standard wall mounted Pergola system suitable for small to medium sized patios.
- Integrated front gutter for water drainage.
- Multiple units can be mounted side by side to create larger width.
- All aluminum frame powder coated.
- Manually operated smaller sizes.
- Motorized all sizes and required on larger sizes.
- Optional hood system available.
- Ideal for adding drop down screens or zipper screens with square surfaces.





# LEVEL: Commercial Installations

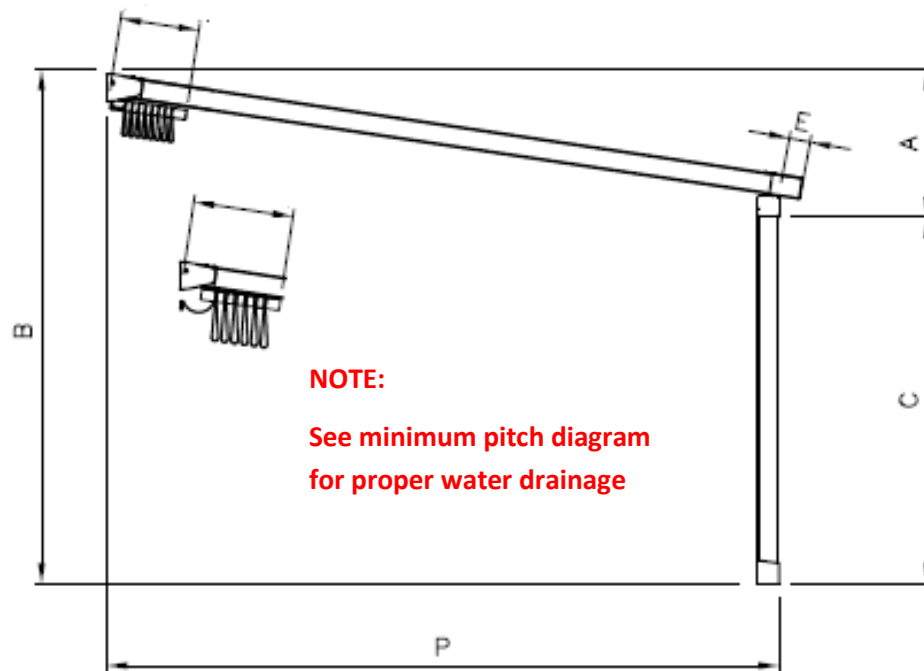




## LEVEL: Residential Installations



# LEVEL Pergola® Technical information



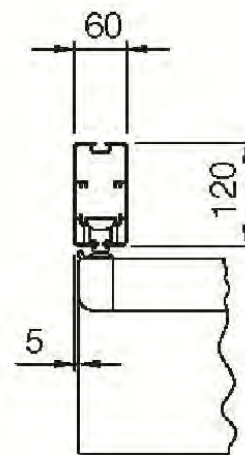
## Dimensions:

**A =** Height of Slope

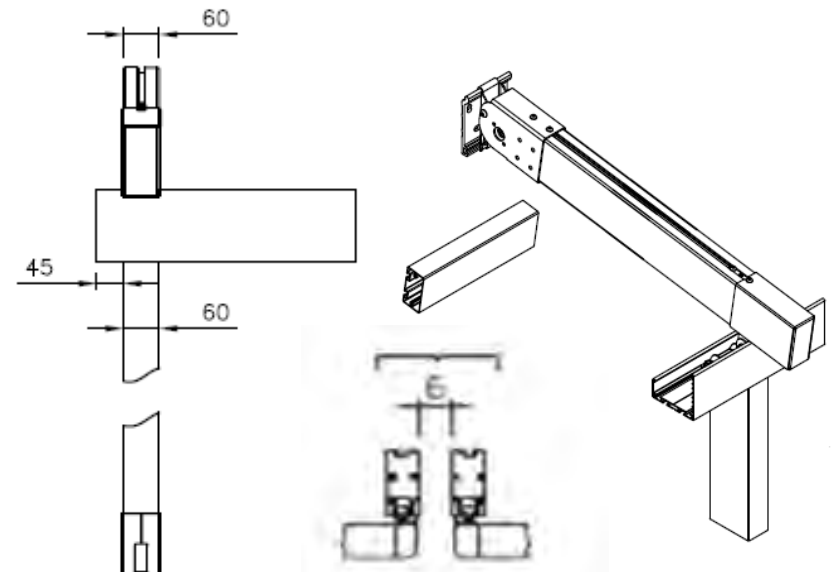
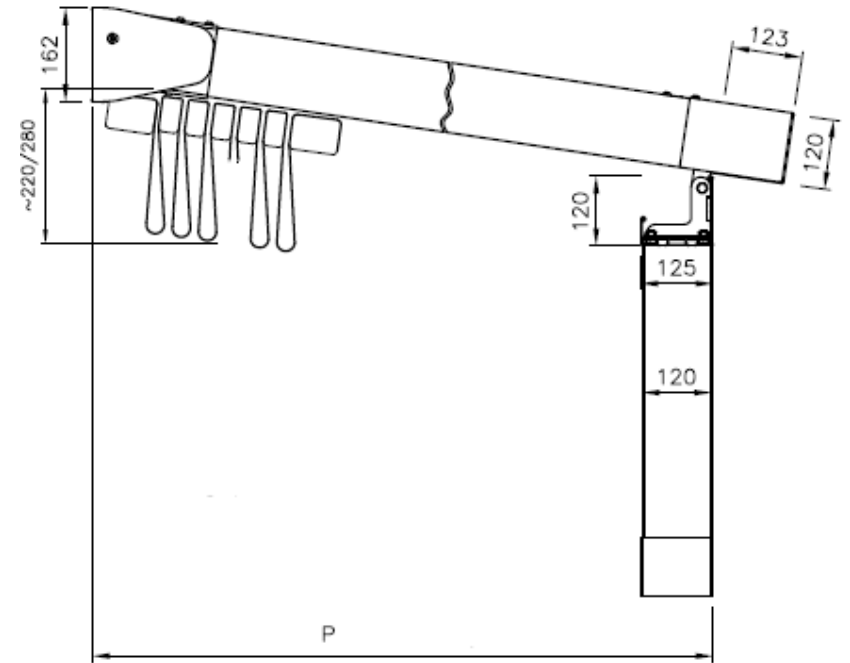
**B =** Height at top back

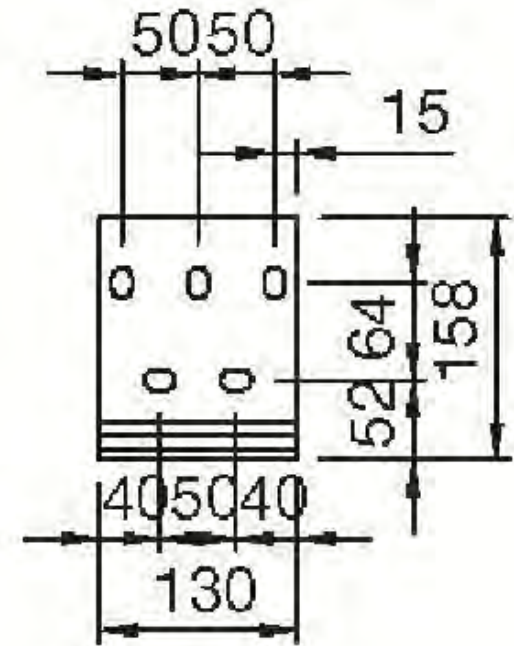
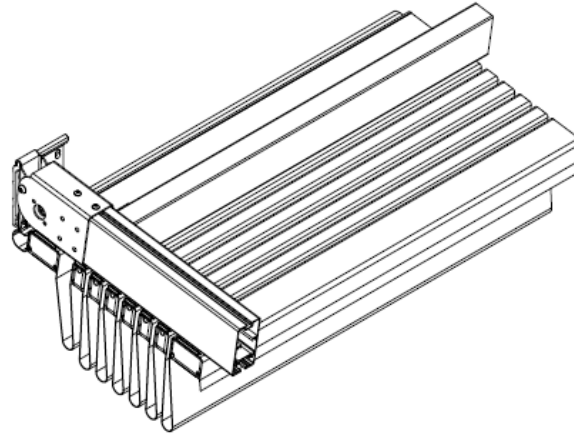
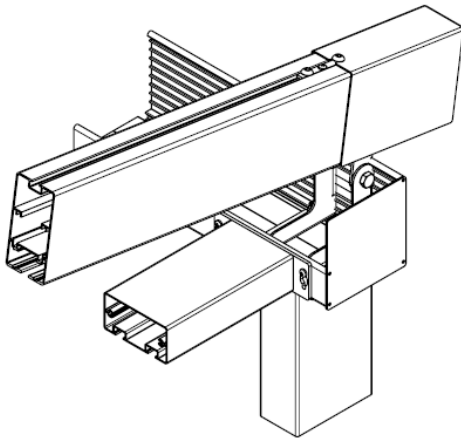
**C =** Post Height / Under  
gutter height

**P =** Actual Projection from  
wall

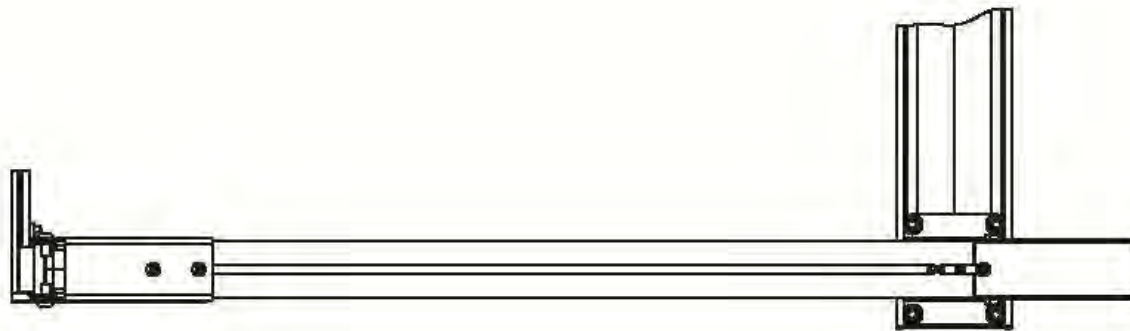
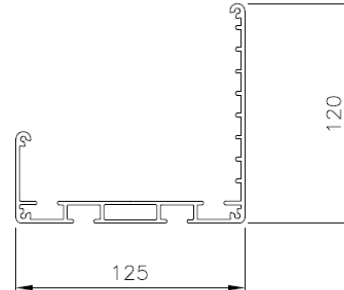
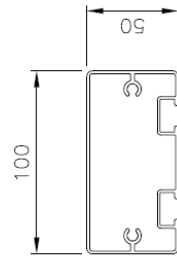
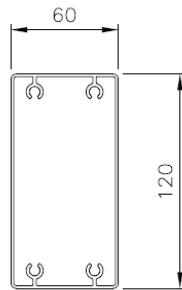
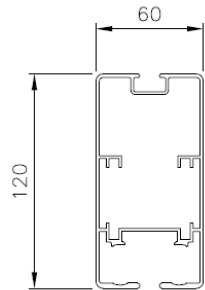


FRONT SECTION

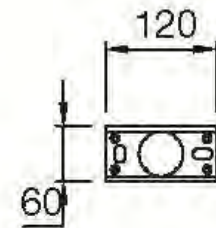


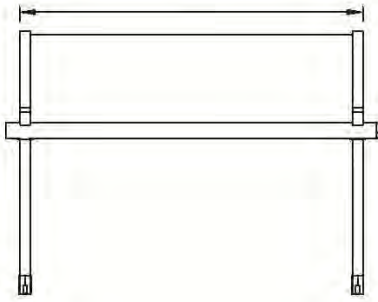


**BRACKET PLATE FOR STD.  
WALL INSTALLATION**



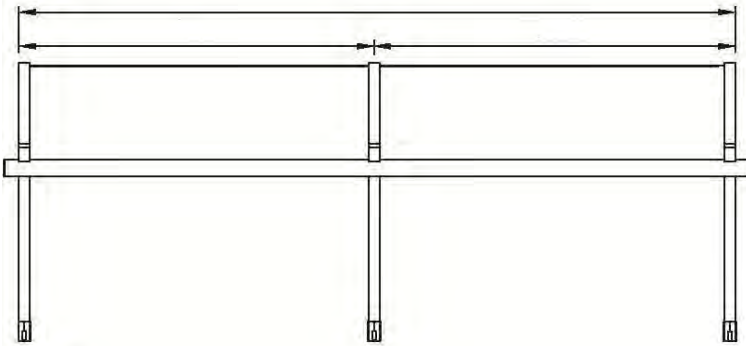
**FOOT PLATE**





**TYPE 1: Level system**

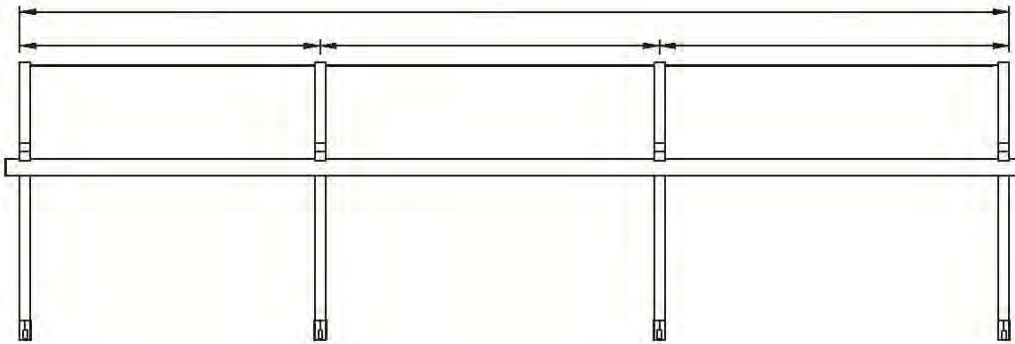
**L = from 8' 1" to max 16' 5" wide**



**TYPE 2: Level system**

**2 spans (L from 14' 8" to 29' 6" max total**

**L1 & L2 from 6' 6" to 14' 8" wide**



**TYPE 3: Level system**

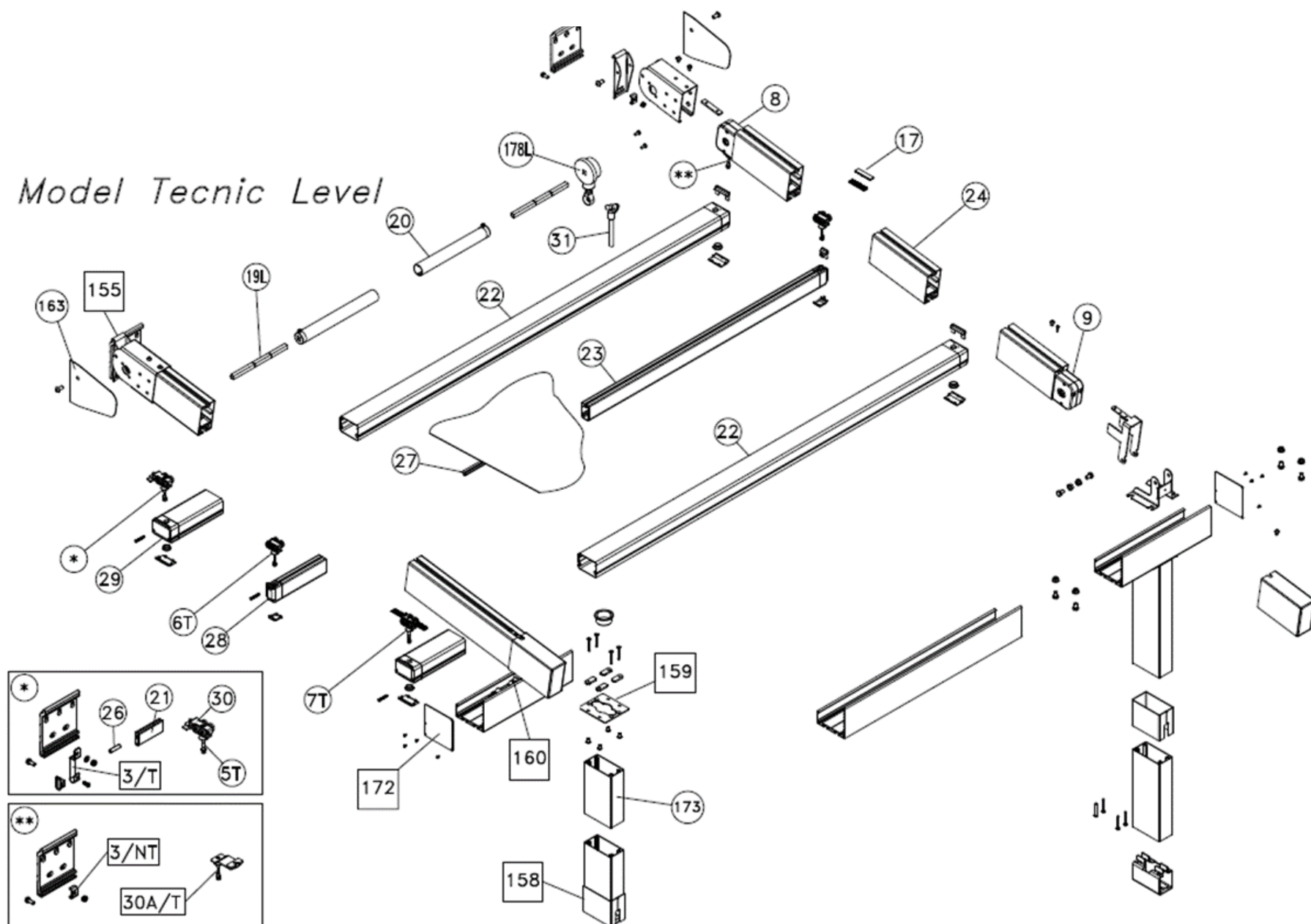
**3 spans (L from 27' 10" to 42' 6")**

**L1, L2 & L3 from 6' 6" to 14' 1" wide**



# PERGOLA® LEVEL

*Model Tecnic Level*



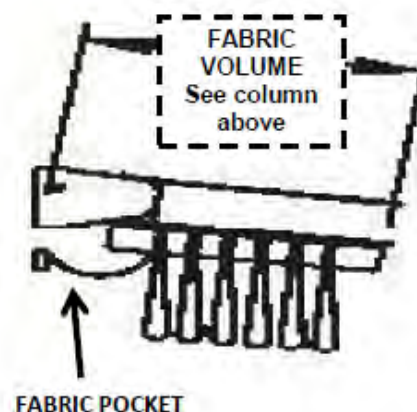
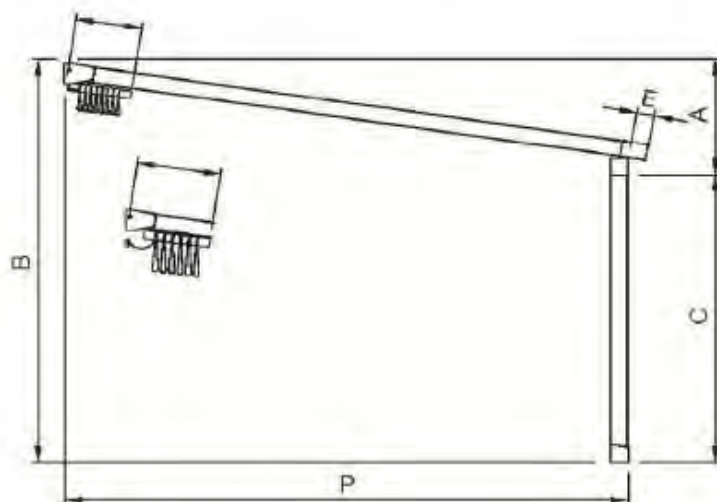
THE BELOW CHART REPRESENT THE IDEAL SLOPE ON THE "LEVEL" UNIT WITH TAUT FABRIC FOR PROPER WATER DRAINAGE

SEE OTHER OPTIONS FOR WATER DRAINAGE ON FLAT UNITS IN PRICELIST

### LEVEL

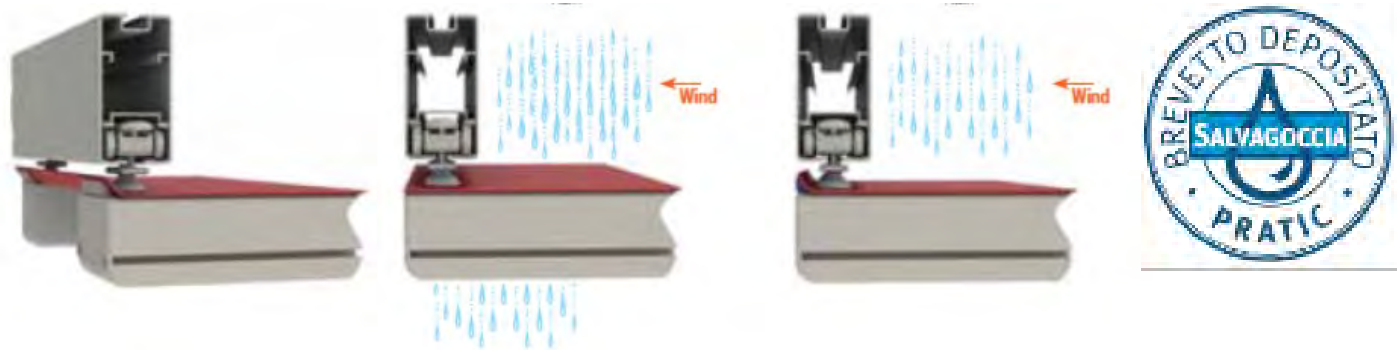
PROJECTION "p"	DROP "A" IN CM/INCHES												NUMBER OF FABRIC FOLDS	FABRIC VOLUME RETRACTED  W/POCKET
	2.5M		3.0M		3.5M		4.0M		4.5M		5.0M			
	8'-2"		9'-10"		11'-5"		13'-1"		14'-9"		16'-5"			
	CM	INCHES	CM	INCHES	CM	INCHES	CM	INCHES	CM	INCHES	CM	INCHES		
2.0M (6'-6")	44	18	48	19	52	21	54	22	55	22	55	22	3	18"
2.5M (8'-2")	49	20	54	22	59	24	62	25	63	25	63	25	4	19 3/4"
3.0M (9'-10")	54	22	60	24	66	26	69	28	70	28	70	28	5	21 3/4"
3.5M (11'-5")	59	24	66	26	73	29	76	30	78	31	78	31	6	23 1/2"
4.0M (13'-1")	63	25	71	28	79	32	83	33	85	34	85	34	7	25 1/4"
4.5M (14'-9")	68	27	77	31	86	34	91	36	93	37	93	37	8	27 1/8"
5.0M (16'-5")	73	29	83	33	93	37	98	39	100	40	100	40	9	29 1/8"
5.5M (18')	78	31	89	36	100	40	105	42	108	43	108	43	10	30 3/4"
6.0M (19'-8")	82	33	94	38	106	42	112	45	115	46	115	46	11	32 3/4"
6.5M (21'-4")	87	35	100	40	113	45	120	48	123	49	123	49	12	34 3/4"

THE RECOMMENDED HEIGHT "C" AT THE FRONT BAR IS 230CM OR 90.5"





# PRATIC PERGOLA® FEATURES AND PATENTS



The patented drip catcher keeps water from flowing off the sides when the wind is pushing water sideways. Instead the water will flow off the front or into the gutter.



The patented click system allows for easy and safe installation of the fabric and fabric ribs to the frame carriages using an easy click and lock system.

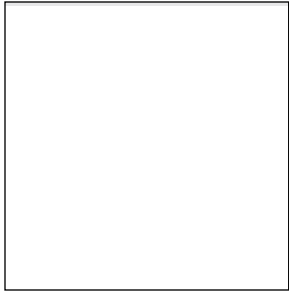
This patented safety box for the motor installs on the frame with an extra mounting profile. This feature keeps the fabric perfectly straight even in temperature variations. The device makes operating easy and quieter and also stops the motor from operating in case of excessive force. The box is ideally suited for Somfy RTS Altus motors with remote controls.



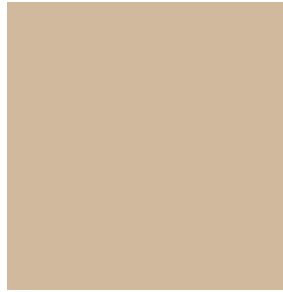
# STANDARD FRAME COLORS FOR THESE PERGOLA MODELS:

Sunair Standard Colors

*Level, Mito, Tecnic, & Tecnic One*



**WHITE Gloss**  
Ral 9016



**MOCHA**  
Semi Gloss



**DESERT SAND /  
IVORY Gloss**



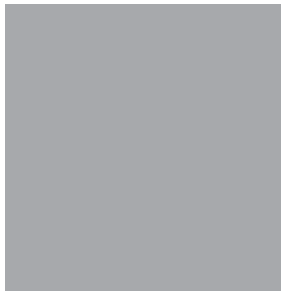
**CORTEN**  
Coarse



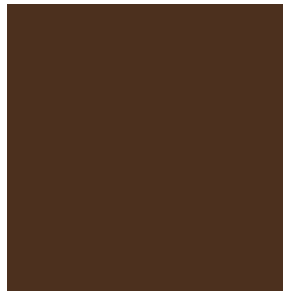
**IRON GREY**  
Coarse



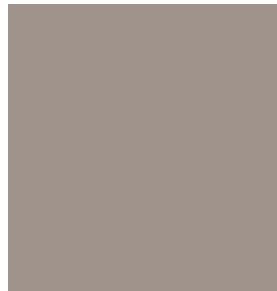
**BLACK Gloss**  
Ral 9005



**GREY Gloss**  
Ral 7040



**BROWN Gloss**  
Ral 8019



**TAUPE Gloss**  
Ral 7030



**GREEN Gloss**  
Ral 6005



**BRONZE**  
Coarse

**OPTIONAL**



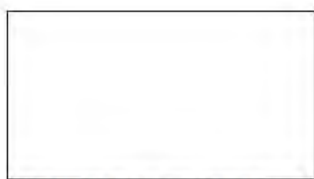
**FULL RAL COLOR  
RANGE / EXTRA  
COST**

**NOTE:** ACTUAL FRAME COLOR MAY VARY FROM DIGITAL IMAGES

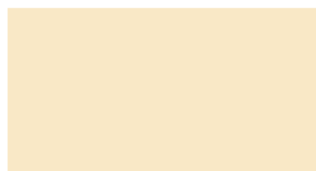


# PERGOLA STANDARD FABRIC COLORS

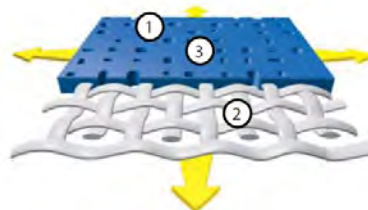
## 602 FLEX LIGHT CLASSIC / OPAQUE COLORS



602N-8503 / 8103



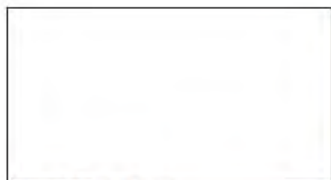
602N-50020



**Serge Ferrari**

The Preconstraint 602 fabric from Ferrari offers excellent dimensional stability with minimal stretching and exceptional dirt resistance thanks to a PVDF topcoat on both sides. The fabric is therefore perfect for use on retractable Pergola® roof awnings. The fabric is 22.1 oz/sq yard with a Glossy finish. The two standard opaque colors above are the most commonly used and is standard on all Pergola® awnings. The two above colors are opaque and do not allow light to go through the fabric. The 602 is also available standard in the 10 each translucent colors below allowing some light to go through. Fabrics are Fire Retardant and certificate is available. Note: Translucent 602 colors below are only available on Pergola models made by Sunair® in Jessup.

## 602 FLEX LIGHT CLASSIC / TRANSLUCENT COLORS



602N-8100



602N-8341



602N-8861



602N-1071



602N-1070



602N-1060



602N-1065



602N-1055



602N-1051



602N-1075



# NON STANDARD PERGOLA FABRIC COLORS

## 502 PROOF SOLTIS / OPAQUE SATIN FINISH COLORS

The Preconstraint 502 fabric from Ferrari also offers excellent dimensional stability with minimal stretching and exceptional dirt resistance thanks to a PVDF topcoat on both sides. The fabric is therefore perfect for use on retractable Pergola® roof awnings. The fabric is 16.8 oz/sq. yard with a satin finish. Fabrics are fire retardant and certificate is available.

									
502V2-8102C	502V2-2171C	502V2-2168C	502V2-2167C	502V2-8450C	502V2-8341C	502V2-8861C	502V2-50265C	502V2-2135C	502V2-2141C
									
502V2-2138C	502V2-2012C	502V2-2148C	502V2-2137C	502V2-2158C	502V2-50668C	502V2-50669C	502V2-50670C	502V2-8056C	502V2-2156C
									
502V2-2152C	502V2-8255C	502V2-2150C	502V2-8204C	502V2-2172C	502V2-20185C	502V2-50674C	502V2-2166C	502V2-50671C	502V2-50675C
									
502V2-50672C	502V2-50676C	502V2-50270C	502V2-50673C	502V2-50677C	502V2-2160C	502V2-2161C	502V2-1125C	502V2-2157C	502V2-8284C

satin finish

  
**Serge Ferrari**

# MOTORIZATION & AUTOMATION

ALTUS®



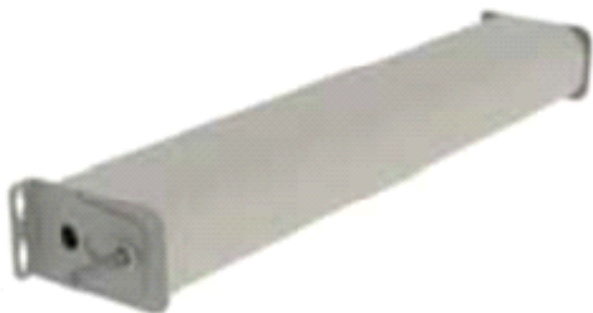
The Sunair PERGOLA® program features SOMFY RTS motor with an integrated radio receiver that allows you to operate the awning or screen by remote control with a wall mounted or hand held remote and by a smart phone device.

With a simple click of a button on your remote, the awning or shade will extend, retract , lower or raise automatically.



1 through 16 channel wall mounted and hand held remotes are available





## OUR PERGOLA® MOTORS

*Sunair uses Somfy motors and controls for their Pergola awnings in the following range*

**Altus 550 Series: Nomo, Rialto , Type 1 & 2 Pergolas**

**Altus 660 Series: Type 3 Pergolas**

### All Somfy Motors are UL and CSA Recognized

- All SOMFY motors are UL Recognized and can be found under the following file numbers:

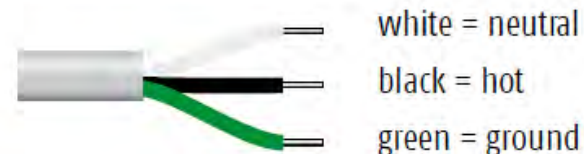
E60495, E60888, E63714



	550	660
Torque	50 Nm	60 Nm (530 in. lbs.)
Nominal Voltage		120V / 60Hz
Rated Current	2.1A	2.5A
Speed	14 rpm	14 rpm

### Type of power cable

**RTS**  
120V AC / 60Hz  
3 conductor cable

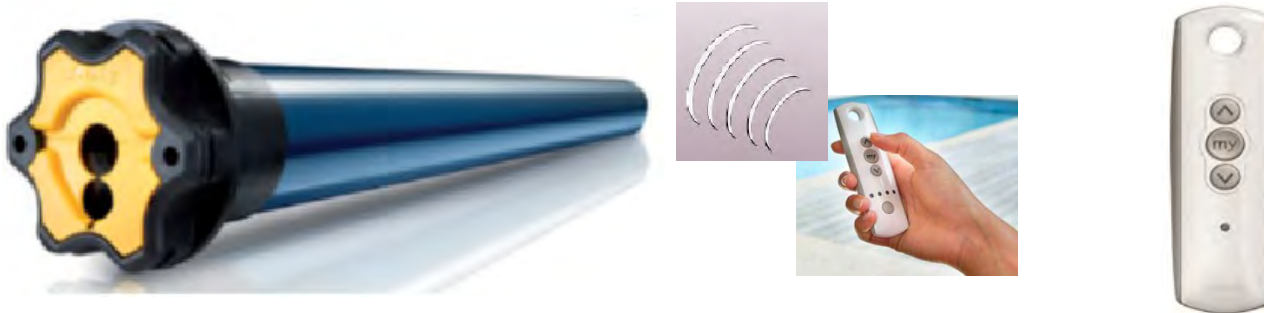


#### Radio Technology Somfy

Radio Technology Somfy® (RTS) allows wireless radio control of motorized applications via the RTS family of controls.



# Screen motor for SC4500 zipper screens



## **SCREEN MOTORS:**

The screens are available with the 525 altus SOMFY motor and also the 525 Maestria Obstacle detection motor. These motors are tubular 110 volt motors and are integrated into the Raso roller tube like a normal screen motor. Electrical wiring for the Raso screens is integrated within the gutter system and posts and all electrical connections are pre-wired within the Pergola system to one central connection point for all the electrical options and motors. The Maestria obstacle detection motor prevents fabric damage resulting from screen bunching and slipping from the guides. The motor senses and distinguishes between an actual obstacle and wind, even wind gusts, so it doesn't stop unnecessarily, resulting in fewer service calls and end user peace of mind.

### Type of cable

RTS

120 V / 60 Hz

3 conductor cable



**Note:** It is recommended to use a multi channel Telis 4 remote to operate multiple screens. The Screen motors use the same RTS motor as all Pergola models except the Louvered Pergola systems. The Louvered OPERA & VISION systems use a separate TELECO remote control to operate the Louvered 24 volt motor and LED's.

## Performances

525A2

Torque	25 Nm
Nominal Voltage	
Rated Current	1.6A
Speed	20 rpm
Thermal Protection	
Radio Frequency	433.42 MHz



**SOLIRIS RTS 24V KIT**  
**Sun & Wind Sensor**

The Soliris RTS Sun and Wind Sensor automatically controls your RTS motorized products based on current weather conditions.



**ONDEIS® WIREFREE**  
**Sun & Rain Sensor**

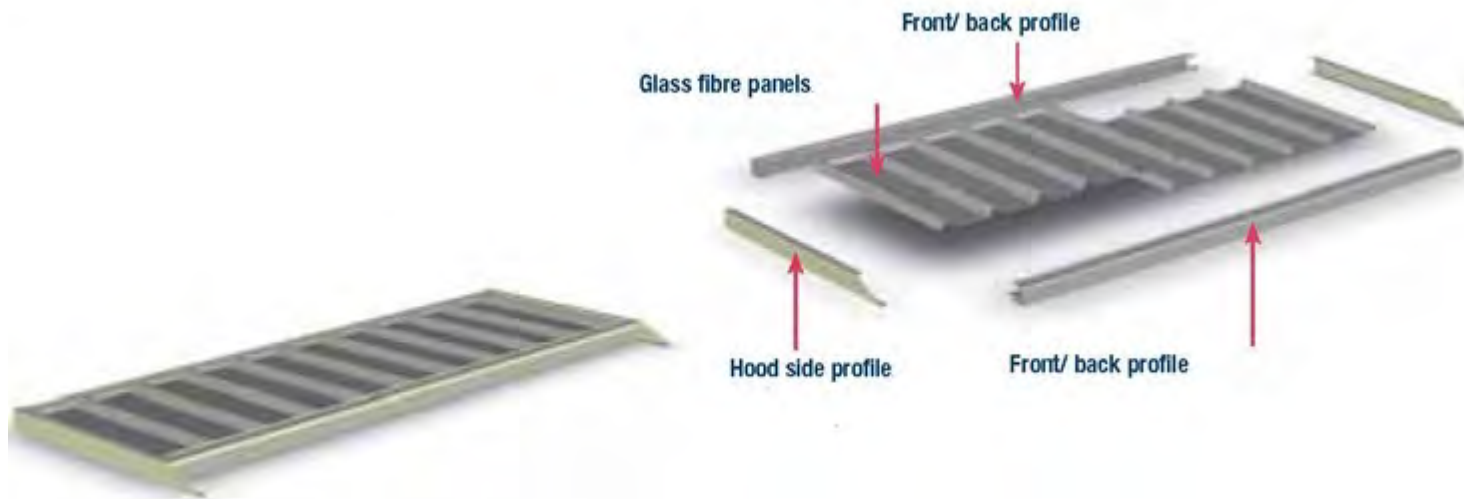
The Rain Sensor is a solar-powered combined rain and sun sensor compatible with Radio Technology Somfy® motorized exterior products, including awnings and screens.

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The Somfy myLink™ is a simple device that turns your smartphone or tablet into a sophisticated remote control for motorized products featuring Radio Technology Somfy®, allowing you to operate them whether you're home or not. Combine all the benefits of Somfy's RTS hand-held remotes and timers in a convenient app.



# OTHER PERGOLA OPTIONS:

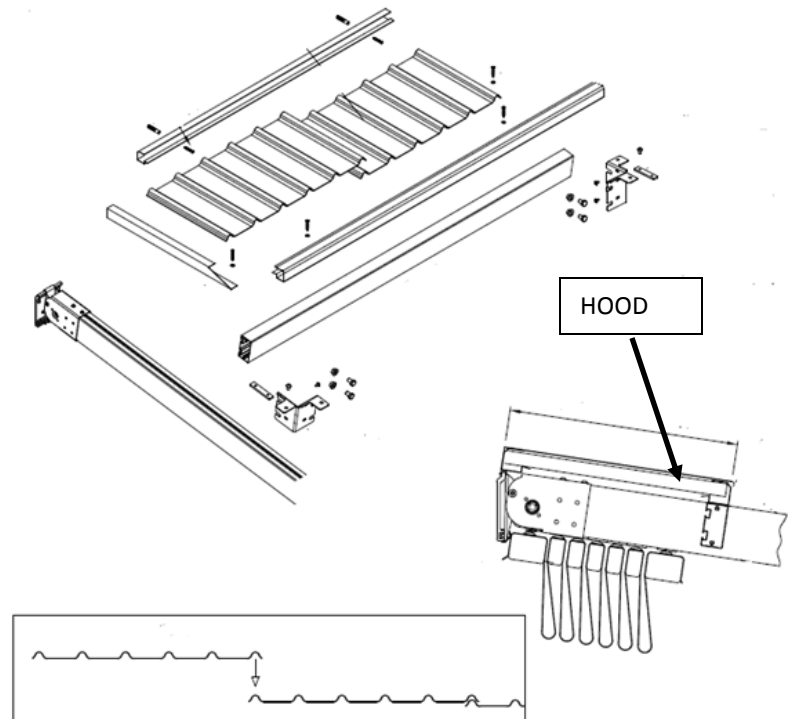


## HOOD

**HOOD:** Is available standard with fiberglass panels with a metal frame. The metal frame color typically matches the awning frame. Brown fiberglass panels are standard. White fiberglass panels are also available standard but subject to stock availability.

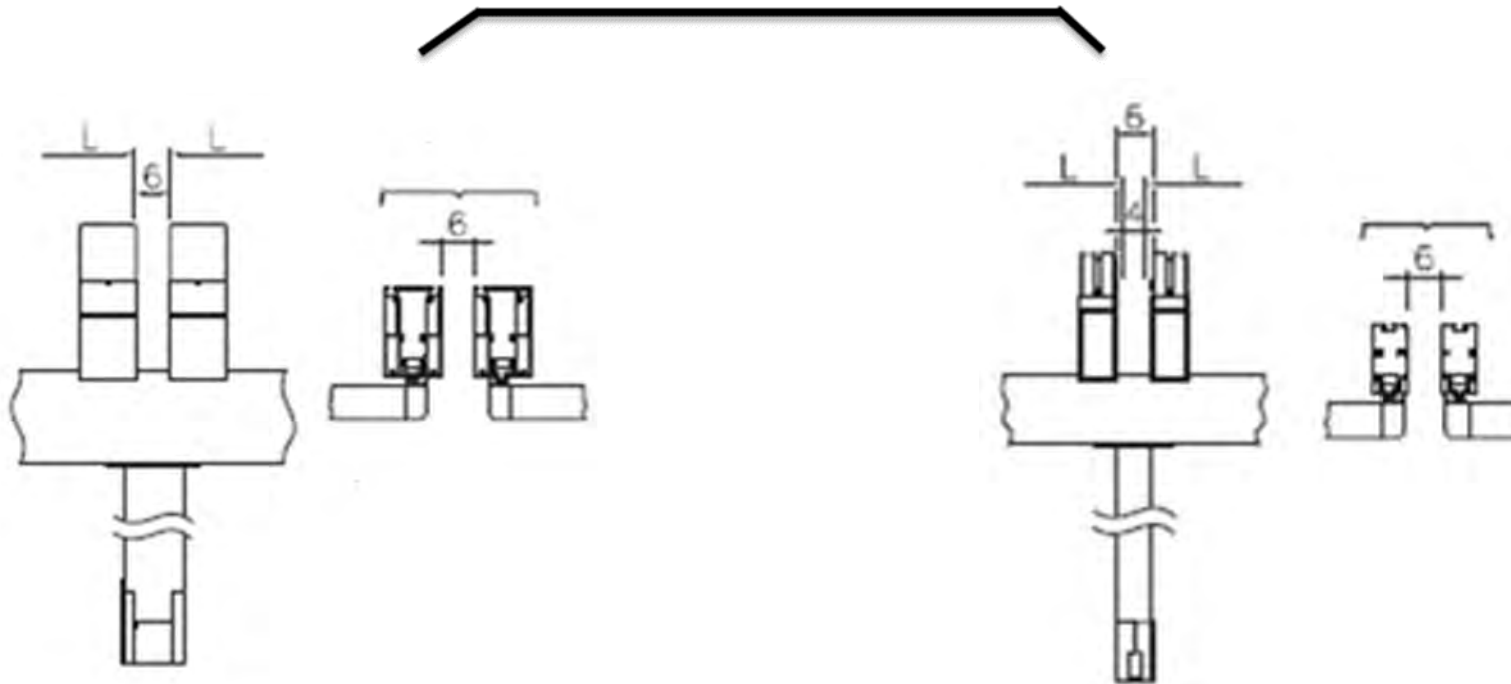
**Optional:** Aluminum painted metal panels / painted to match the pergola awning frame color and metal hood pieces.

**NOTE:** Above panels are not available for ZEN, NOMO, RIALTO, OPERA and VISION Pergolas.





# CAP BETWEEN WALL MOUNTED SYSTEMS



## MITO & TECNIC ONE

30.5 cm / 12" wide weather cap.

Deduct 6 cm between guide rails. ie a three (3) cm deduction off each unit at split in center.

## LEVEL / TECNIC

25 cm / 10" wide weather cap.

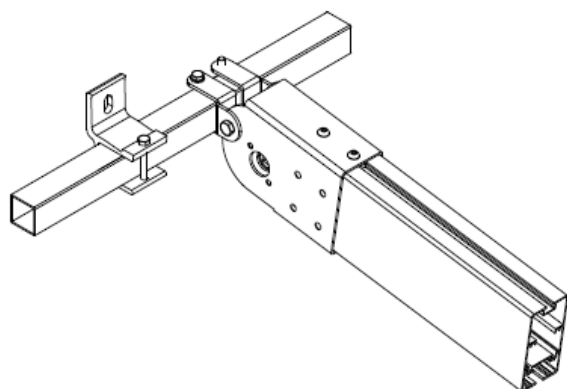
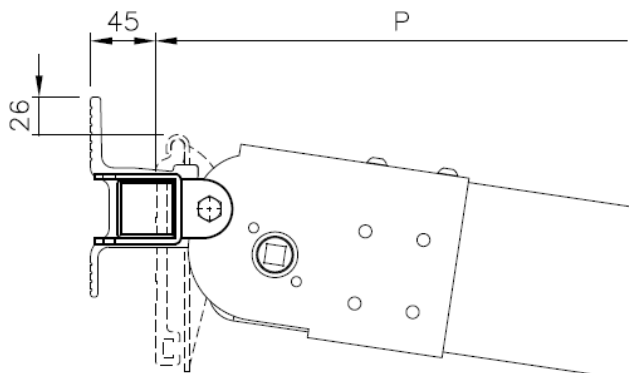
Deduct 6cm between guide rails / 4cm between L widths. ie a two (2) cm deduction off each units L dimension at split in center.

### NOTE:

Caps available in 10ft / 3m sections.

Powder coated to match the Pergola frame color.

Calculate number of sections needed to cover the entire guide / projection to the gutter.



## **MOUNTING ON SUPPORT TUBE**

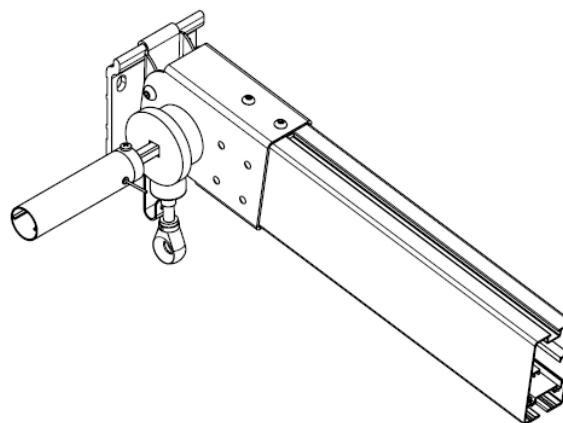
Wall mounting the Level awning is possible using standard wall brackets and the 40 mm x 40 mm support tube. This support tube is the same as is commonly used for lateral arm awnings, using the same bracket system. The wall brackets can be positioned along the support tube to align with the wood or steel studs in the wall. Please inquire about additional cost for this upgrade.

**Note: This option is NOT available with very larger sized units. Please inquire with office.**

## **MANUAL UNITS GEAR MECHANISM** (Some models)

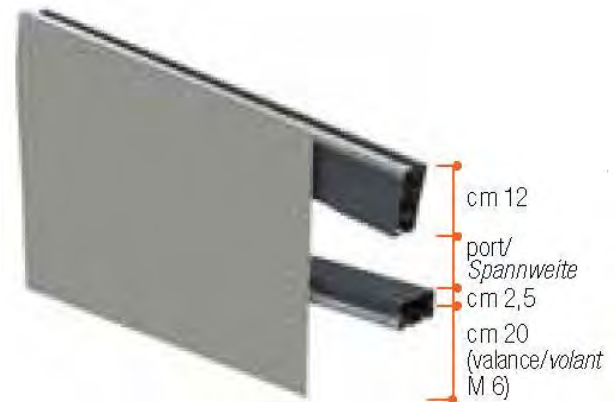
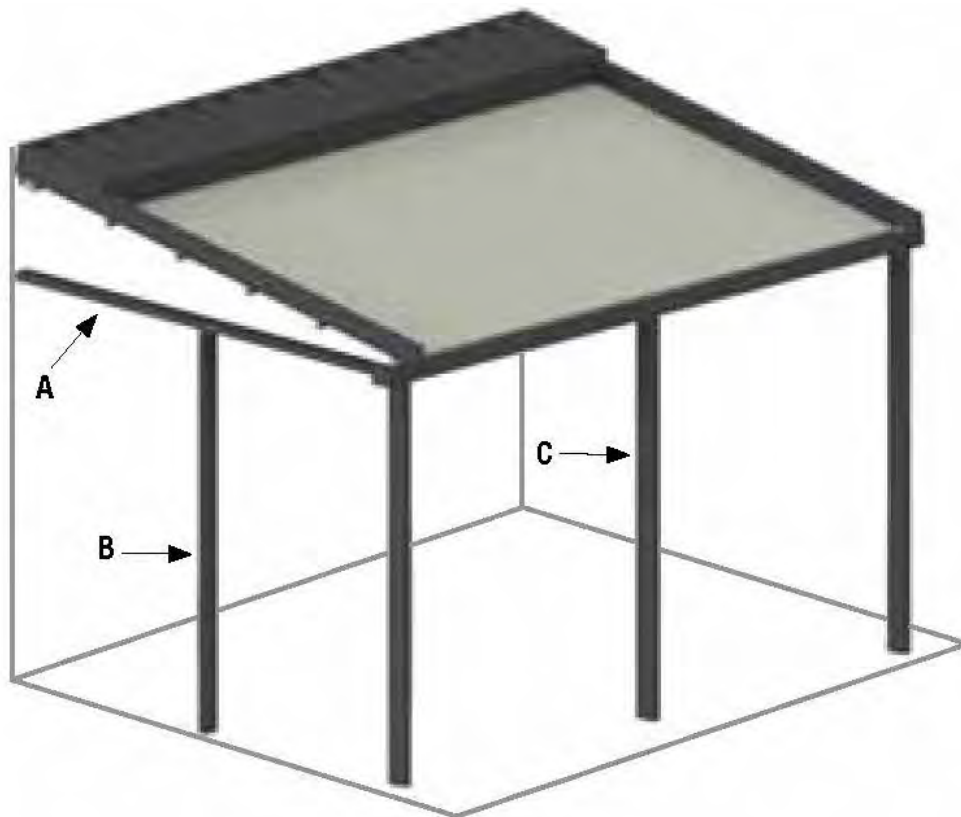
Only small **TYPE 1** units may be manually operated up to a certain size (see below) Max size for any manual unit is 268 sq. ft. or 25 sq. mtr.

**Note:** Nomo, Rialto, Opera and Vision not available with manual operation.



# SIDE STRUCTURES & POSTS

Add vertical and horizontal support beams and posts when adding rolling screens and side panels.

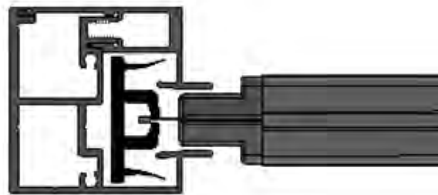
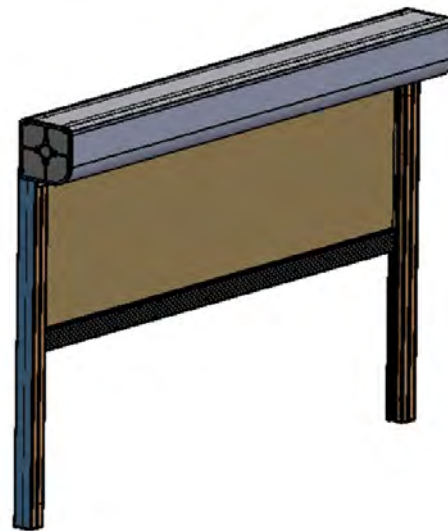
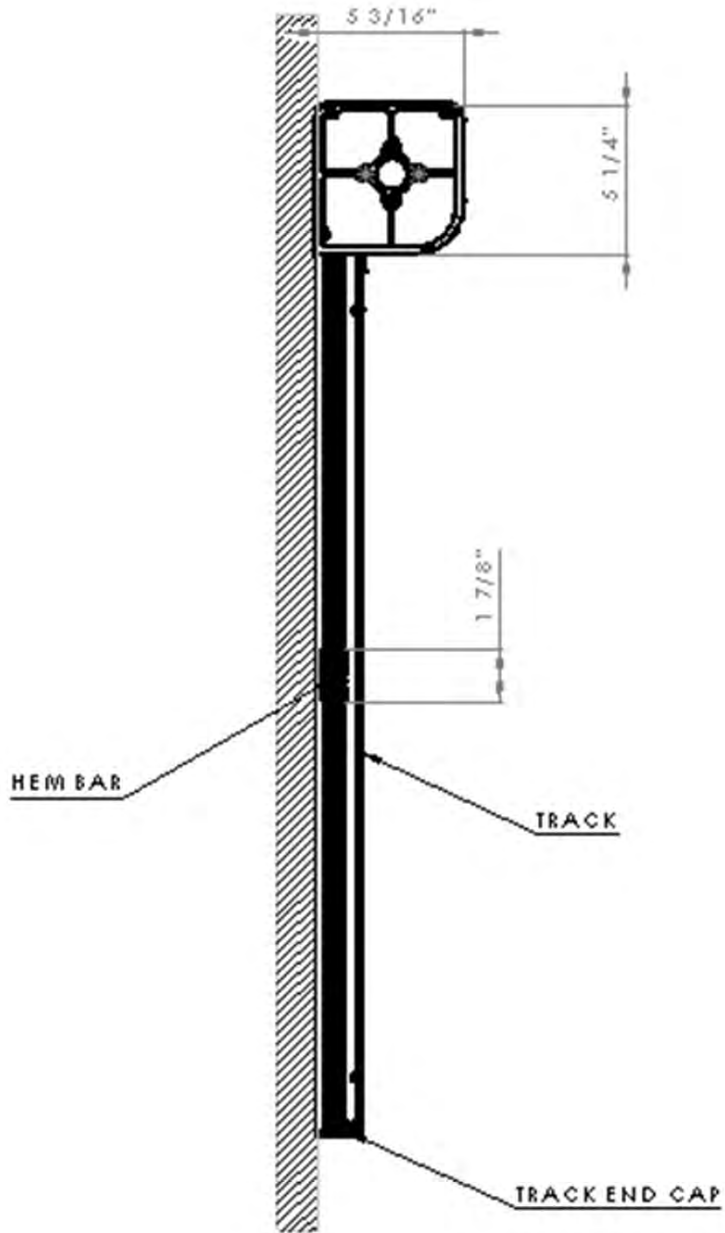


**POSTS B & C:** Additional side and front posts

**POST A:** Horizontal bar used to install screens and fabric end cover.

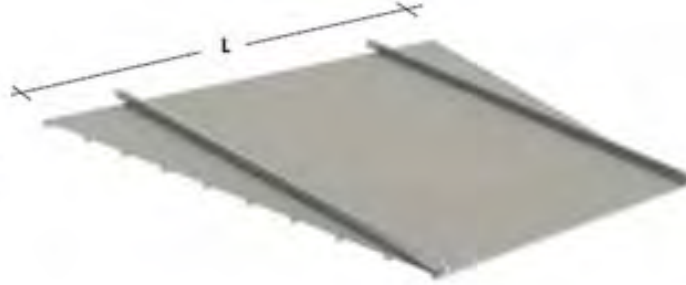
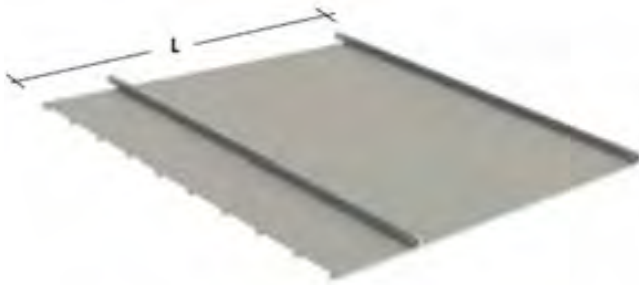


## SIDE SCREN SC4500 ZIPPER SCREENS



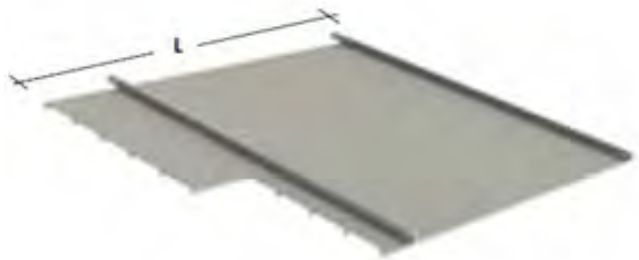
For further information please see the awning and screen manual and SV4500 Zipper screen technical manual.

## Specialty shaped covers (Other Options)

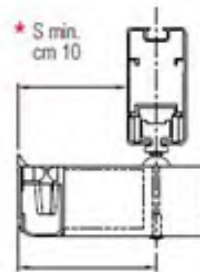


**\*Triangular side**

**Not available with drop catcher carriages**



- **Recessed guides & Fabric rib overhangs**



**\*With Tie rods max projection is 5m or 16' 5" projection. Must be bolted to structural wall**



**\*Rib alignment in case two systems mounted next to each other with different projections**

**\* Note: Engineering and availability may change without notice**

## *Optional: Structures to mount free standing*

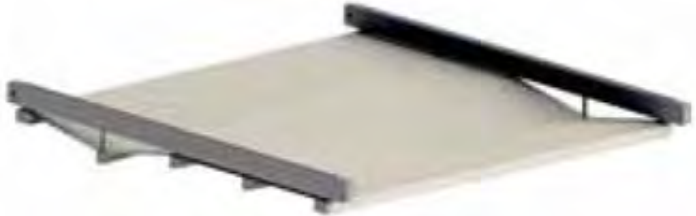
IF YOU WANT TO TAKE A TYPICAL “WALL MOUNTED” PERGOLA STRUCTURE AND MAKE IT FREE STANDING THERE ARE TWO OPTIONS BELOW. HOWEVER IT IS BEST TO USE THE NOMO, RIALTO, PHOENIX AND ZEN, WHICH ARE FREE STANDING MODELS WE OFFER.



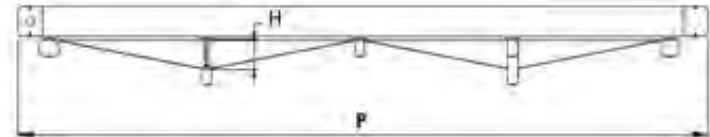


## “V” Cover water Drainage to Sides

### FABRIC WATER DRAINAGE OPTIONS “D” “V” Alternating



OPTION D

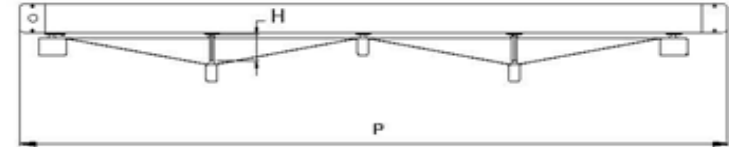


OPTION D: “V” Cut alternating panels for Type 1 Pergola® only. Max width is 5 meters x 9 m projection

### FABRIC WATER DRAINAGE OPTIONS “E” “V” Cut Side



OPTION E

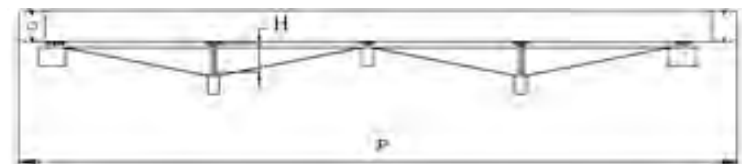


OPTION D: “V” Cut to one side only. For Type 1 Pergola® only. Max width 5 meter x 9 m projection.

### FABRIC WATER DRAINAGE OPTIONS “F” “V” Cut Type 2

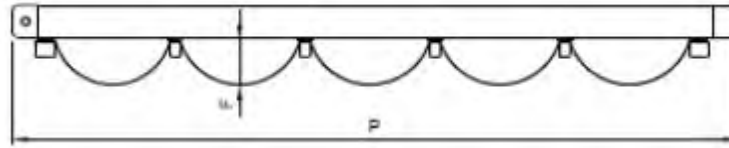


OPTION F



OPTION F: “V” Cut to both sides. For Type 2 Pergolas only. Max width 7 meters x 9 m projection

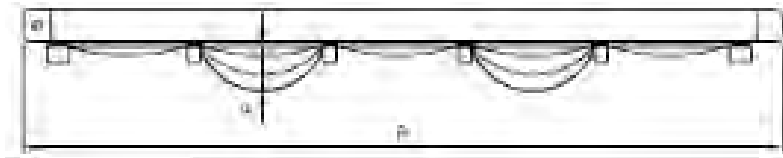
## SLACK FABRIC “A” OPTION FOR SUN PROTECTION ONLY



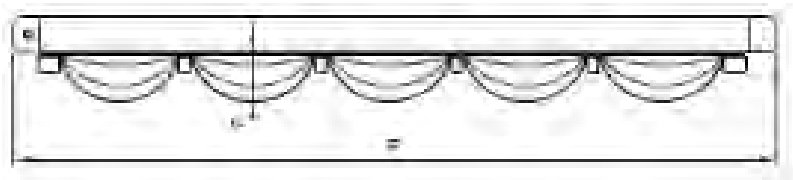
You can also choose slack fabric option “A” on each panel. This option is for sun protection only and will not offer any water drainage. Acrylic fabric is available with this option.

## Loose Cover with water Drainage to Sides

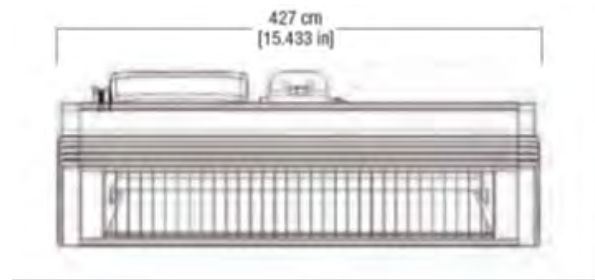
### OPTION B & C



OPTION B: Alternating panel slack on both



OPTION C: Panels slack on one side only



***HEATERS: COSY 1500 AW Sleek, Low clearance, infrared heaters.***

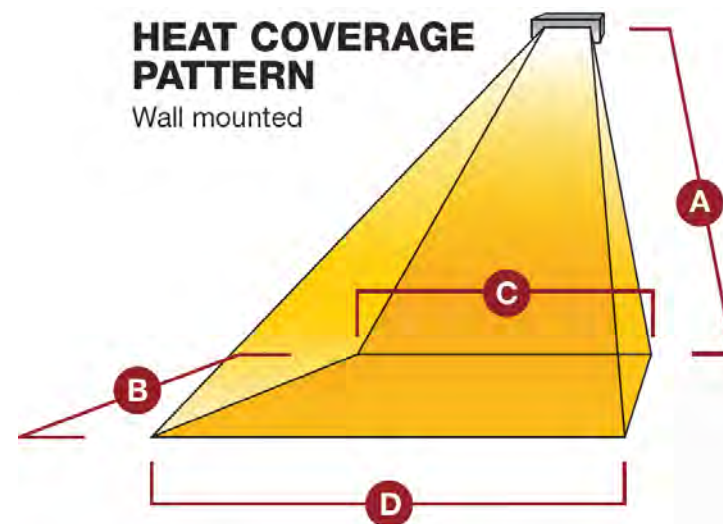
Sunair® awnings do not specify any particular brand of heaters but we do offer the Solaira brand as a convenience and as “supply” only. As supply only all warranty is per the Manufacturer (Solaira). Please see separate manufacturers installation, use, servicing and warranty documents. Mounting and wiring the heaters on the Pergola units is not included and will be the responsibility of the dealer / customer in the field during installation. Check your local codes for correct wiring instructions. All heaters should be installed by a certified electrician to local state electrical codes. See separate manufacturer’s data sheet and wiring instructions. If you purchase your own heaters, make sure that the heater brand and model you chose can be installed within the pergola unit to code. Aluminum Brackets to install the heaters on the awning are sold separately. Note: Sunair® awnings can only make suggestions but will not be responsible or warranty the performance and the effectiveness of the heaters. Check with the manufacturer of the heaters for the recommended number of heaters for your application and best installation position of the heater for best results.

Con’t next page



## Solairia Heaters con't

Note: Specifier / Customer must contact Solairia for recommended heater number and position.



## HEAT COVERAGE EXAMPLES

Model	A	B	C	D	Heat Zone*	Heat Density*
SCOSYXLAW15120 B/W	6'7"	9	8	11	90 sq. ft.	16 watt/sq. ft.
SCOSYXLAW15240 B/W	6'7"	9	8	11	90 sq. ft.	16 watt/sq. ft.
SCOSYXLAW20240 B/W	8'2"	9	8	11	90 sq. ft.	22 watt/sq. ft.
SCOSYXLAW-L15240 S	6'7	9	8	11	90 sq. ft.	16 watt/sq. ft.
SCOSYXLAW-L20240 S	8'2"	9	8	11	90 sq. ft.	22 watt/sq. ft.

\*Heat Zone and actual heat density will vary based on mounting height and angle of heater (Overhead mounted zones will be different than this guide). Please use this as a guideline only and contact Solairia for a more detailed specifier guide.

Con't next page

## Solaria Heaters con't

### 240 VOLT: 1.5Kw 208 - 240 V

Heater Model Black # SCOSYAW15240B Ral:9005

Heater Model White # SCOSYAW15240W Ral:9010

### 110 VOLT: 1.5Kw 120V

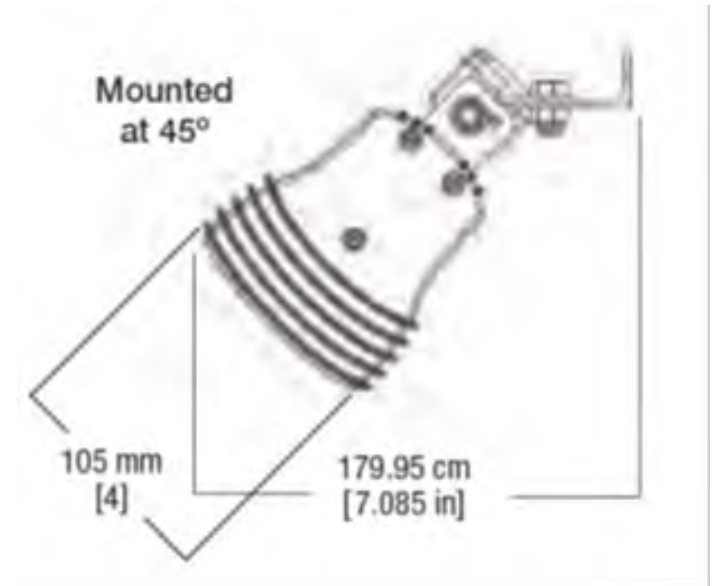
Heater Model Black # SCOSYAW15120B Ral: 9005

Heater Model White # SCOSYAW15120W Ral:9010

### ADD CONTROLER AND ENCLOSURE BELOW TO BOTH HEATER MODELS ABOVE:

Controller #SHP18280SOL

Enclosure #SHP80ENCLOSE



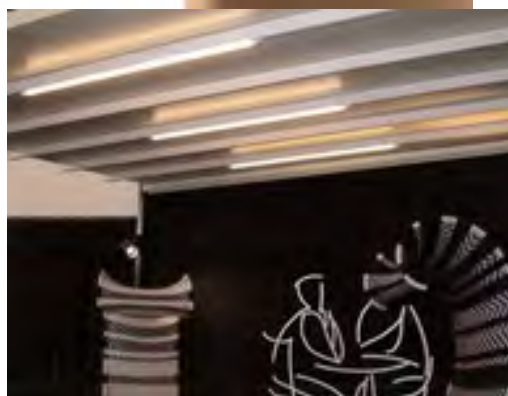
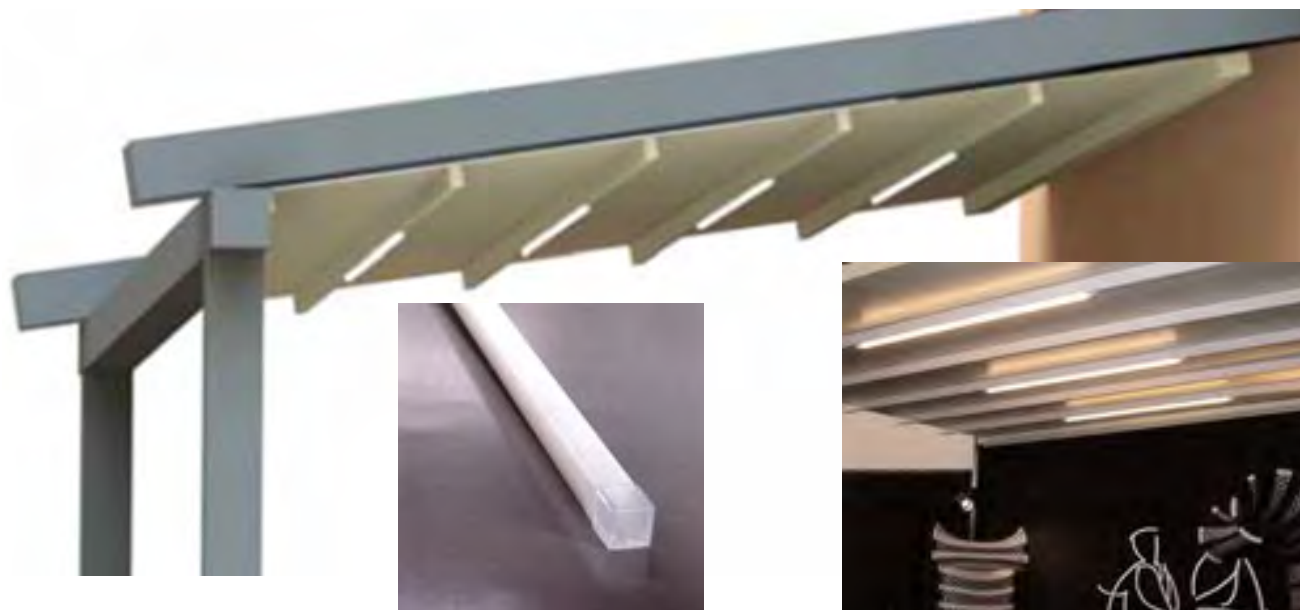
#### NOTE:

Maximum 6 ea. 110 volt heaters can be used per controller and box.

Maximum 12 ea. 240 volt heaters can be used per controller and box.

# STARLED “Classic” 130 cm / 51” White LED bars

For wall mounted Pergola awnings only ( Not for Nomo, Rialto, Opera or Vision).



StarLed is the high efficiency led light that allows you to create an intimate, picturesque and bright room under the pergolas

- ✓ Led bar length 130 cm. 140 Led per m., 24 V, PW 14 W
- ✓ Opaline polycarbonate tube 15x15mm
- ✓ Closing caps
- ✓ Installation with screws and adhesive tape 3M
- ✓ Light colour @3000°K
- ✓ Light emission: @1050 lumen
- ✓ High efficiency, warm light Led. Lumen - power ratio is very high, about @110lm/W
- ✓ On request with radio control.

**Recommended # of lights:** There is no fixed rule how many lights are recommended as it depends on how much light the customer needs. Typically three to four (3 to 4) lights is enough per section of each Pergola or per bay.

# LED Soft / White Custom sized LED bars White

For wall mounted Pergola awnings

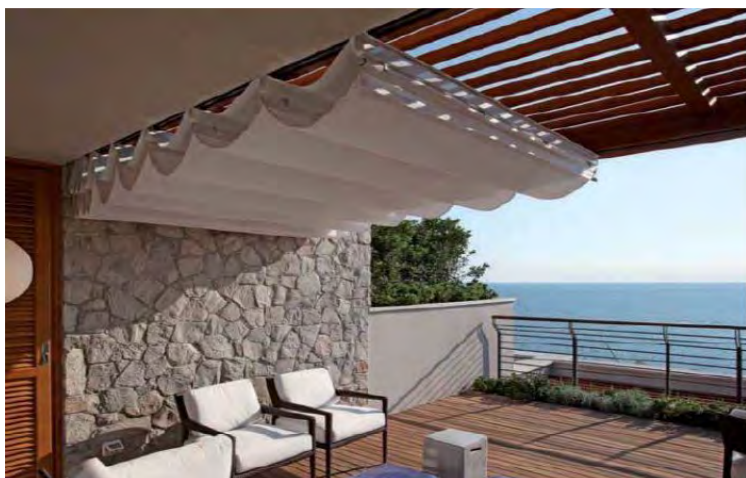
5MM ILUMA™ LIGHT STRIPS



The soft white LED lighting strips are available up to 40 ft long (Maximum allowable amount of linear lighting per Somfy Lighting receiver). One Somfy lighting receiver #1811486 is needed per 40 ft. of linear LED lighting. Typically two to four ( 2 - 4 ) lighting bars are centered per each bay or section of Pergola. Multi Channel Telis remotes are needed for the LED lighting depending on how many lighting receivers are needed.



# UNDERCOVERS WALL MOUNTED PERGOLA® AWNINGS



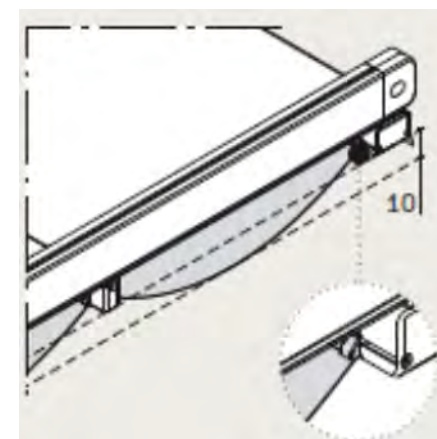
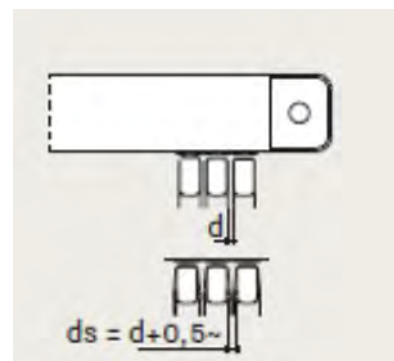
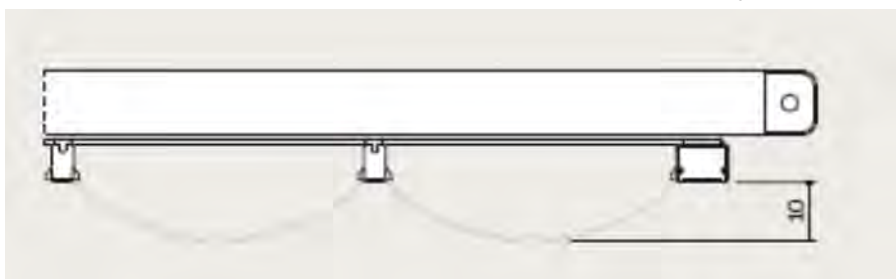
To create a nice atmospheres with wall Pergola® Awnings , it is possible to apply an "Undercover" installed under the ribs. Please note fabric will hang lower than top Vinyl cover. This undercover will be slightly narrower than the top cover by at least 4" / 10 cm per side to prevent water from going up along the PVC flap and wet the fabric of the under cover (Solid 60" fabric colors only).

## AVAILABLE FABRICS:

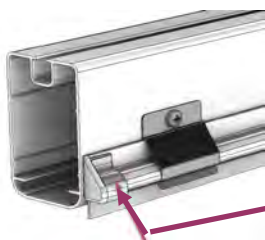
Standard: Sunbrella 60" solid colors.

Optional:

Fire retardant Sunbrella & Tempotest STAR 60" solid colors from range.

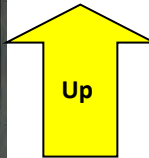


PLease note rib spacing will increase 6mm / 5/16" between each fold in the fabric.

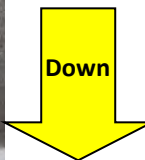


Note: Undercovers are installed with a "clip" system.

## UP & DOWN Glass Walls Options



*The Up & Down model is made up of two sections, one stationary and one mobile. A simple key is used to lock and release the module. To raise, release window with the key and the spring loaded module will slowly rise on its own.*



**The Up and Down model of our glass window dividers can be customized to match your color scheme or even display your logo! The base aluminum colors are White and Iron Grey colors. Virtually any color and design graphic motifs can be added to the glass to showcase your restaurant's unique style. Other models are also available.**





# Installations

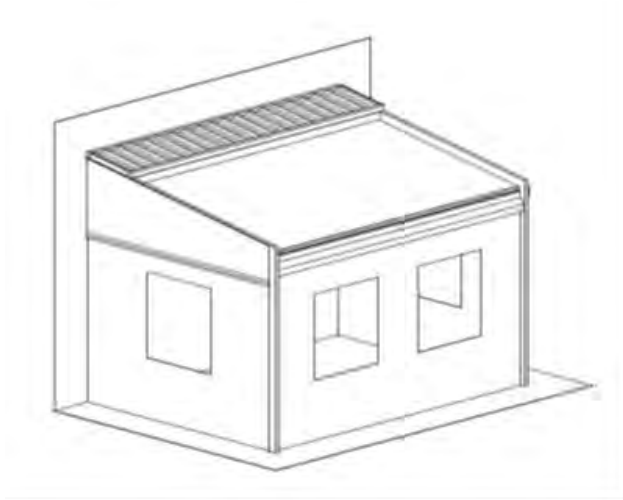


NOTES:



NOTES:

**Note: Sunair® reserves the right to change engineering, specifications, and prices without notice. Images and Illustrations in the catalog may vary from digital and printed manuals. Sunair® is not responsible for printed inaccuracies in this manual.**



***SUNPROOFING AMERICA!***



#### **MARYLAND LOCATION**

**Mailing: P.O. Box 1068**

**Shipping: 7785 Rt. 175**

**Jessup, MD 20794**

**Toll Free 800 - 548 - 0408**

**Phone: 410 - 799 - 1145**

**Fax: 410 - 799 - 5584**

#### **ARIZONA LOCATION**

**Mailing: Same as Jessup**

**Shipping: 3807 West Thomas Rd.**

**Phoenix, AZ 85017**

**Toll Free 877 - 272 - 3920**

**Phone: 602 - 272 - 3920**

**Fax: 602 - 272 - 3925**

**[www.sunairawnings.com](http://www.sunairawnings.com)**

**[info@sunairawnings.com](mailto:info@sunairawnings.com)**