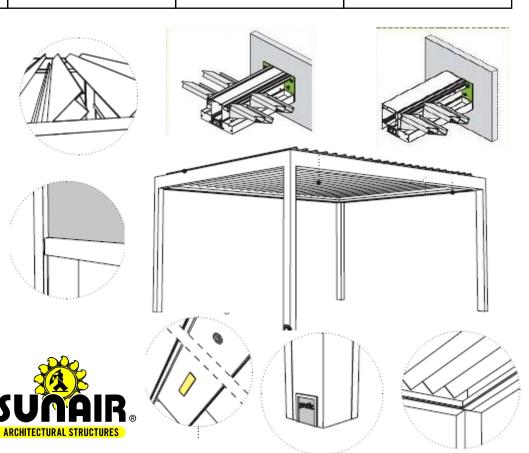
## **Model:** OPERA Adjustable Louvered Pergola®



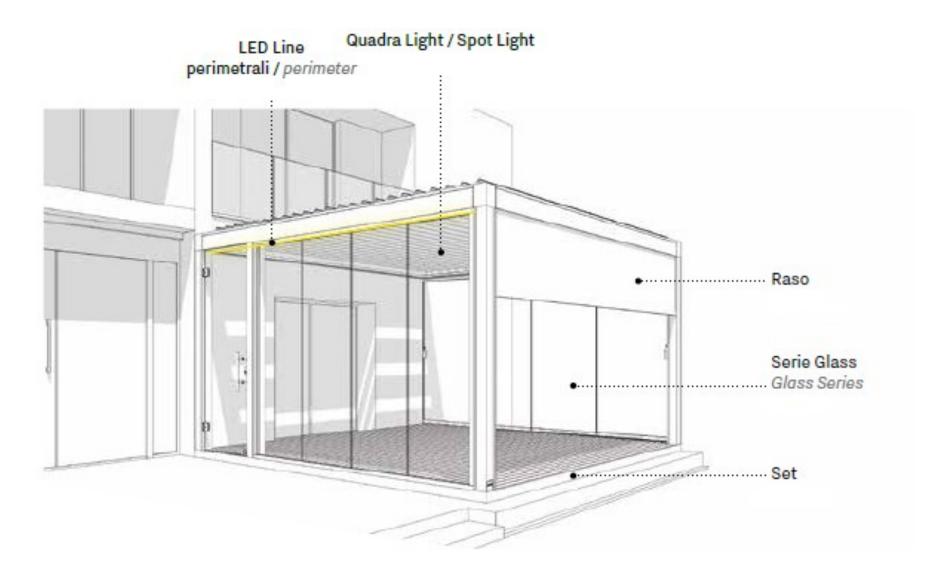
Application	Maximum Width	Maximum Projection	Options
Free Standing or	5 m H 51 /		LEDS, Heaters,
Wall Mounted Commercial & Residential	5.5 m H 62	*7 m / 22' 11"	Side Screens
	16' 5" / 18' wide		Set Flooring
	Per module		Slide Glass

#### **PRODUCT FEATURES:**

- Motorized Louvered roof pergola.
- Adjustable blades up to 140°
- Ideal for free standing or wall mounted applications.
- Internal gutter and downspouts for water drainage.
- Designed to withstand some loads.
   Please inquire with Sunair office.
- Sloped louvers for drainage into gutter
- Multiple modules can be mounted side by side with common posts to create larger width.
- All aluminum frame powder coated.
- Motorized all sizes.
- Screens optional on OPERA.
- Ideal for adding roll down zipper screens to create an enclosed space.
- · Powered with a LINAK motor.



## **FUNDAMENTALS:** OPERA



## **OPERA: Commercial Installations**



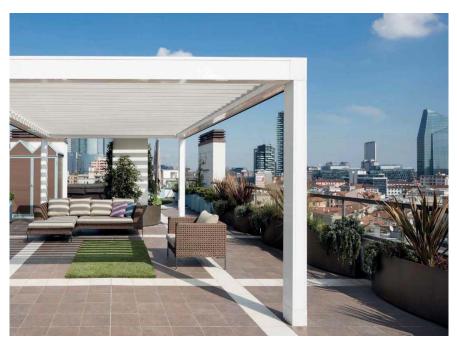






## **OPERA: Residential Installations**









## OPERA ADVANTAGES

**Blades Closed** 



Blades opened 45 degrees



Blades opened 90 degrees



Blades opened 140 degrees



Blades opened on side



Solar Modulation



Air Recirculation



**Rain Protection** 



**Load Resistance** 







Opera has been tested to see how water-proof they are by the Giordano Institute which simulated rain equal to 369 mm / hour with pressure of 3.4 bars during an unidentified amount of time. An Opera 14' 9" wide s 19' 8" projection (450 cm wide x 600 cm projection) with two rain events or downpours.

## ADVANTAGES con't

The OPERA can be wall mounted or free standing structures. The supporting profile and guides are 8 ½" high (22 cm). Posts are 15 cm x 15 cm (Foot plate is wider).

Water management within the gutter system and discharge within the posts is a Pratic patent. Optional telescoping post feet are available for ease of installation.

For greater perimeter protection, the OPERA model can be configured with optional retractable RASO zipper screens hidden within the beam system.



Optional Comfort louvered
blades or foam filled louvers
minimizing noise from "rain"

The OPERA offer more preassembled structure components for a safer and easier installation on site.

The OPERA RGB LED multi colored lighting offers a fascinating elegant remote controlled lighting option (White lights included).

OPERA is a solid, made to measure structure that can reach large sizes (18' x 22'11" for Opera model). Coupling of multiple structures to make larger sizes is possible with common posts.

#### **ALUMINUM**



The Bioclimatic Pergola Opera Rialto screens are made of all extruded aluminum profiles.

#### **STAINLESS**



Brackets, pins, plates and screws of the entire line are made of 304 & 470 stainless steel. These alloys are recognized to resists rusting.

#### **PATENTS**



Pratic filed 6 patents that protect the technical and functional characteristics of the bioclimatic Pergola®, patents that guarantee the uniqueness and quality of the Opera and Vision models along with the Raso screens.

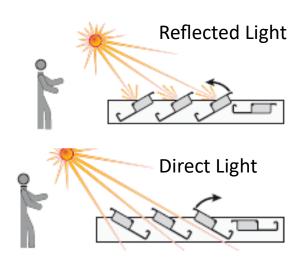
#### **FINISHES & PAINTING**

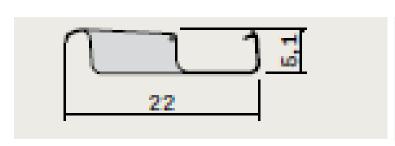


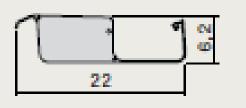
In the coating process the aluminum profiles and steel components are subjected to a special "pretreatment" which improves paint adhesion and resists corrosion. The powder coat paint process is applied according to "Qualicoat" standards which guarantees the painted aluminum parts.

## LOUVER OPTIONS: OPERA:

For best sun blocking affect and ability to adjust the louvers so that you block the sun while also allowing filtered light through openings of the louvers it is best to configure the louvers to run parallel with NORTH / SOUTH. It is also best to configure the louvers so that they reflect the sun in afternoon "Reflective Light". The person to right is positioned at front of awning system and louvers can adjust 140° towards person depicted in illustration.



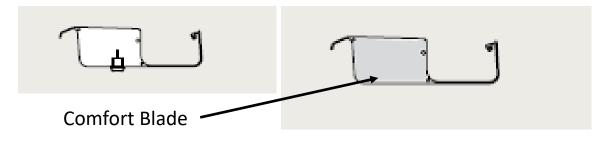






H62 Louver max width 5.5 meter / 18 ft wide

H51 Louver max width 5 meter / 16' 5" wide



Comfort Blade is an optional foam filled louver minimizing noise from "rain"

**NOTE:** Not available with Spot

Foam filled

### WATER TEST



Opera, Vision, have been tested to see how waterproof they are by the Giordano Institute. They tested for water tightness (blades, gutters and drainage) using the test system certified by the Giordano Institute (Test report no. 319934).

The tests were conducted and certified by:



#### DESCRIPTION OF TEST

The test was performed on an Opera bioclimatic pergola measuring 450 cm x 600 cm and on a Nomo bioclimatic pergola measuring 550 cm x 700 cm, professionally installed, simulating precipitation equal to 369 mm per hour and at 3.4 bars pressure, three times the reference value of 100 mm per hour (corresponding to a artificial cloudburst) as required by standard IEC 60721-2-2.

Particular weather conditions and/or particular types of installation can create unforeseeable operating conditions and/or in any case different from the laboratory tests we have carried out and/or can cause water seals, static seals etc. different and/or inferior comparing to the simulations carried out in the laboratory.

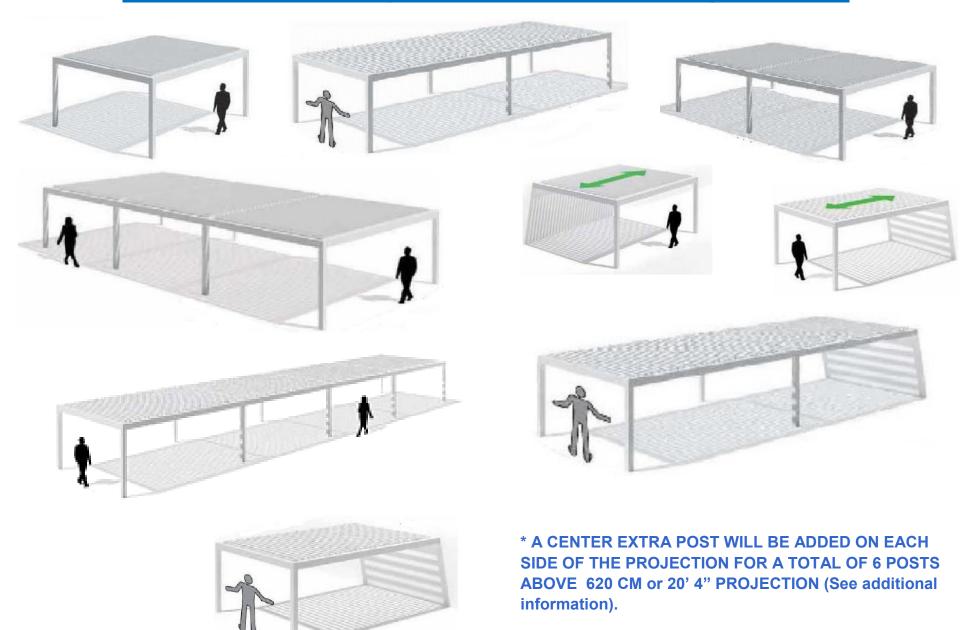
#### RESULT

«No water infiltration inside. Correct drainage with no accumulation.».

### LIVE LOAD

Opera has been tested to allow for some "live Load" when in use. Please refer Pratic documents calculating maximum permissible loads for each system by size. Special care must be taken when using the Louvered system in snow conditions.

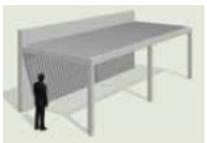
## **OPERA:** Some possible model configurations



# **More configurations**

























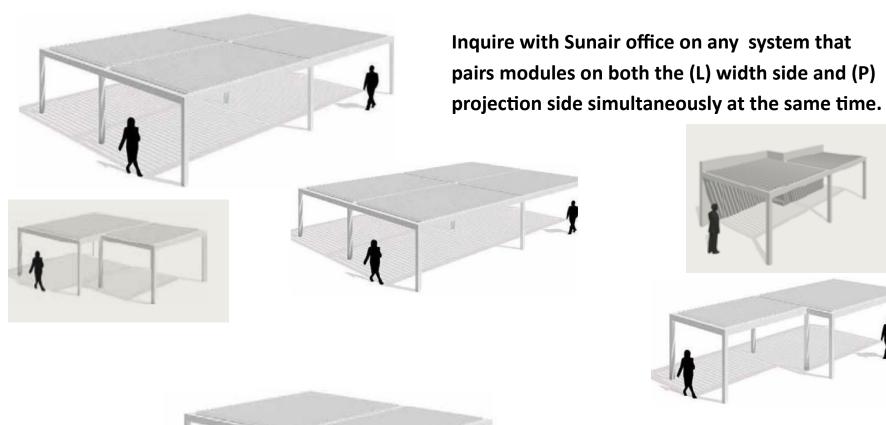


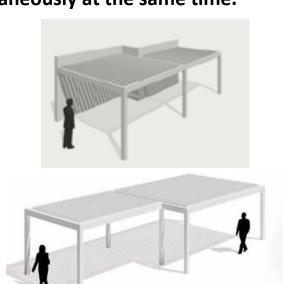






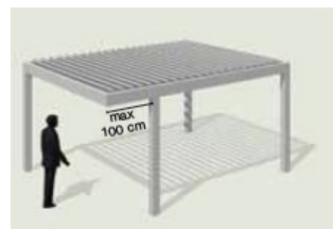
## **Out of standard configurations**



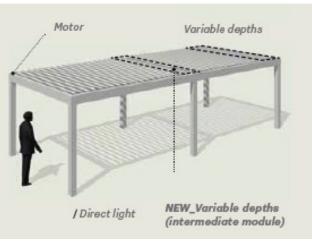


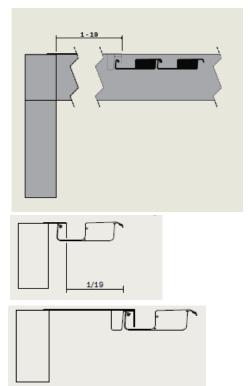
Also inquire on uneven sections or modules to be joined.

## Other Options (Please inquire with Sunair feasibility)



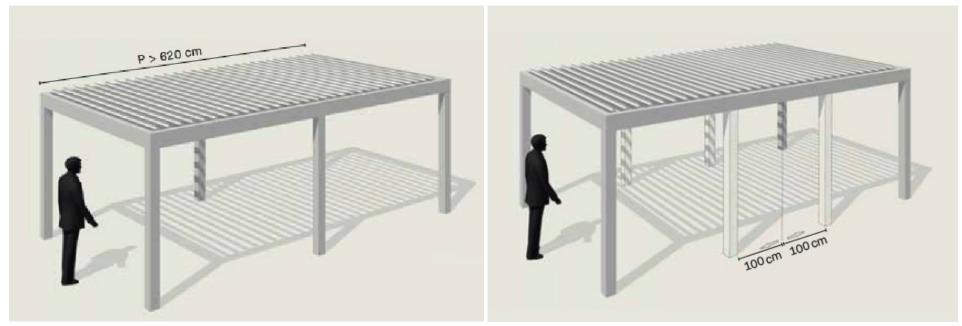
Cantilevered post maximum 100 cm or 39" from corner.





Opera can ordered with a custom projection and not in full louvered slat widths by adding a "filler" piece (Other than full width slat projection) in up to 1 cm increments (1—19 cm). This custom filler piece must be located on opposite side of the motor. This configuration is also not available on wall mounted units with O2L with slats configured with "Direct Light" towards the filler piece. The custom sized filler piece is extra cost and unit is priced at next largest size plus cost of filler piece.

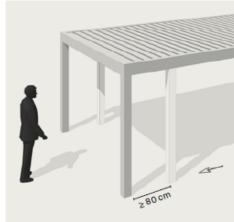
## **Maximum Projection without intermediary posts**



Opera can both be made with projections up to 700 cm or maximum 33 each blades. Projections greater than 620 cm or 29 each blades must have an additional upright post added on each side of the Pergola unit (See illustration top Right). If not indicated by customer, this upright will be centered under the beam on both the projection sides. This intermediary upright post can be placed off center by 100 cm maximum. This configuration requires at least three (3) drainage points per module.

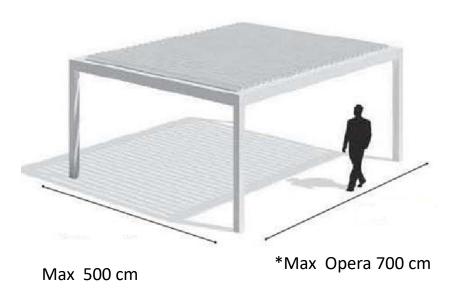
Note: For any Opera above 620 cm projection (P),

Six (6) posts are automatically included in the price of the unit.



Minimum distance from intermediate post to corner post is 90 cm / 36"

#### **Possible Sizes Per Module:**



<u>Post needed on projection</u> <u>side above 620 cm.</u>

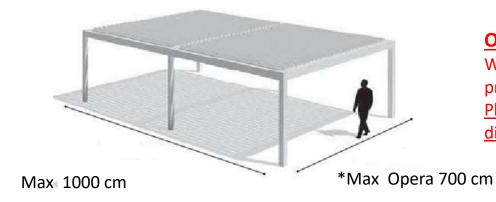
#### **OPERA:**

Max module width 18' (550 cm)
Max module proj. \*22' 11" (700 cm)

\*NOTE: If over 620 cm projection, a middle posts is needed on each projection side.

#### NOTE:

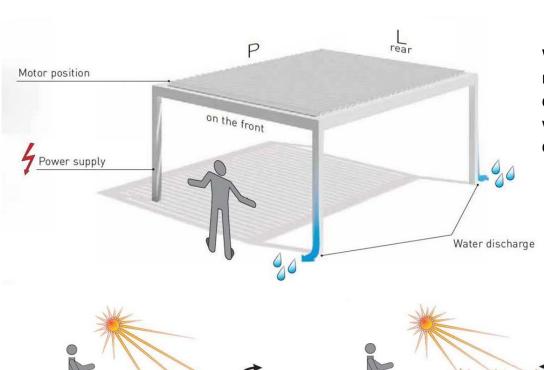
Louvered metal slats are 20 cm wide, so finished projection will be in increments of 20 cm (7.87"). You may need to increase or decrease your desired projection accordingly. You can also add a "fixed " filler piece in the back for custom exact sized units (See filler piece option).



#### **OPERA:**

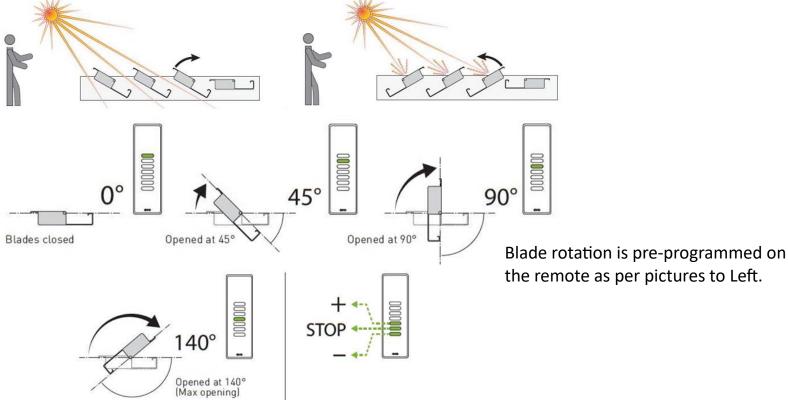
When coupled on projection side, max module projection is 19' 8" ( 600 cm) for Opera module. Please inquire with Sunair® office on exact finishing dimensions.

<u>Post needed on projection side</u> <u>above 620 cm.</u>

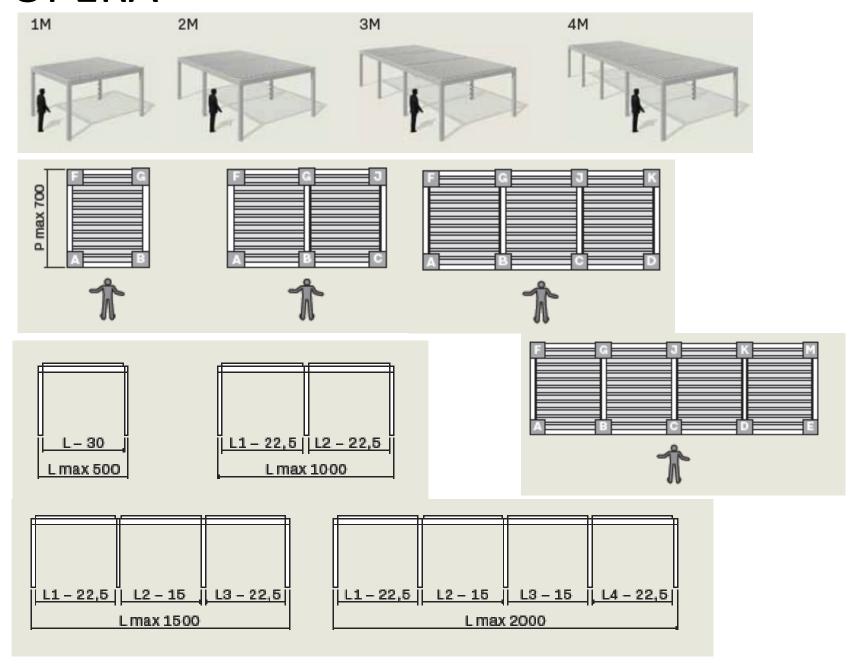


Water discharge should always be two (2) per module or section. It is not recommended to discharge in the posts that carries the electrical wiring. For additional modules at least one more discharge point is necessary per module.

**NOTE:** Optional for OPERA is to have Structure and louvers in two different colors.



## **OPERA** <u>01L:</u> Free standing Louvered system



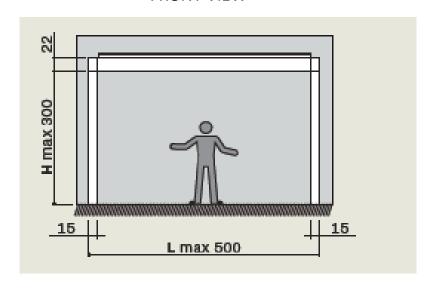
### **01L:** Free standing con't.

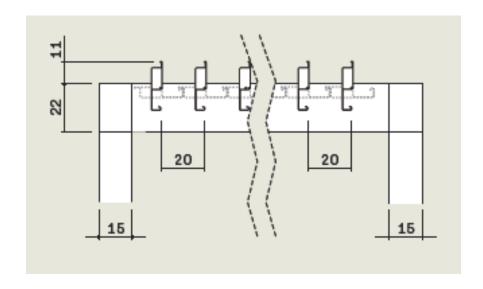
**SIDE VIEW** 

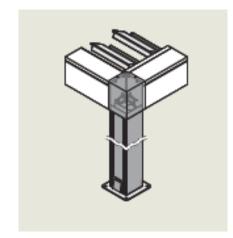
**NOTE:** Middle post needed on each projection side above 620 cm projection (See technical spec). 15 15

P max 700

#### **FRONT VIEW**

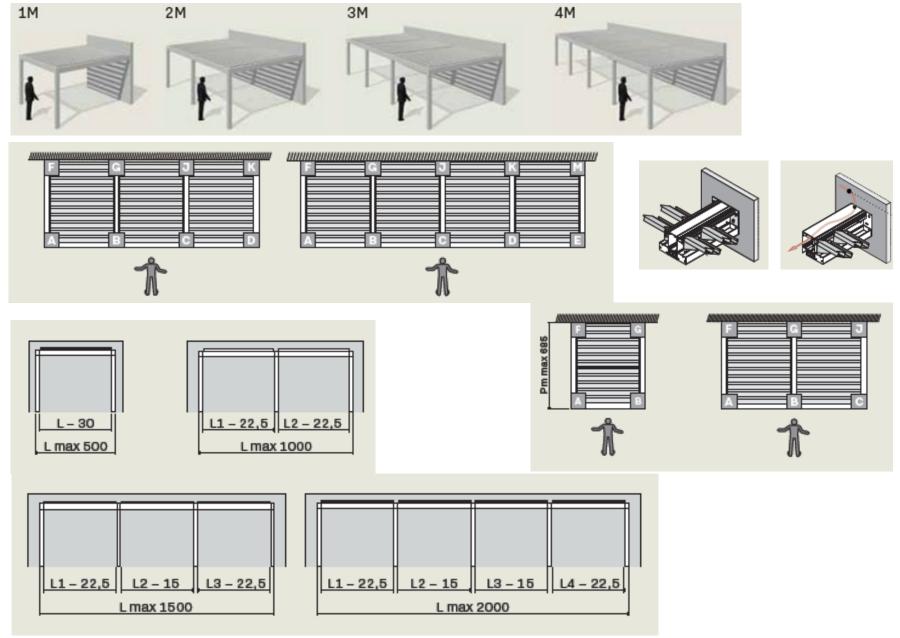






### OPERA 02L: Wall Mounted width side wall "L" Louvered system

Max Projection 22' 6" (685 cm)



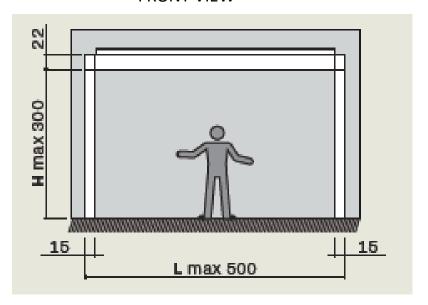
## **OPERA 02L:** Wall Mounted width side wall L con't.

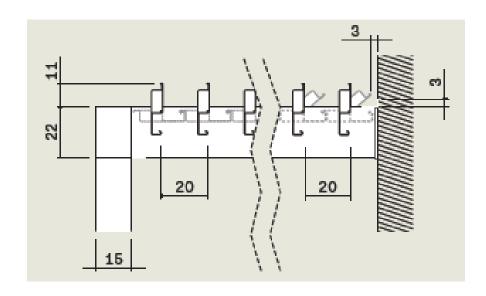
SIDE VIEW

NOTE: Middle post needed on each projection side above 620 cm projection (See technical spec).

Pm max 685

#### **FRONT VIEW**



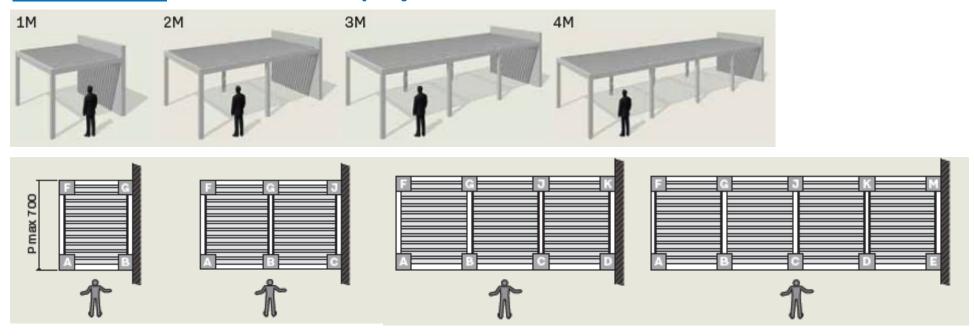


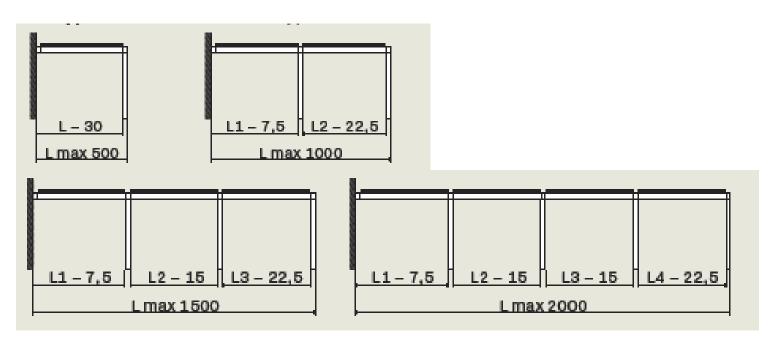


Wall mounting

Intermediary Wall mount

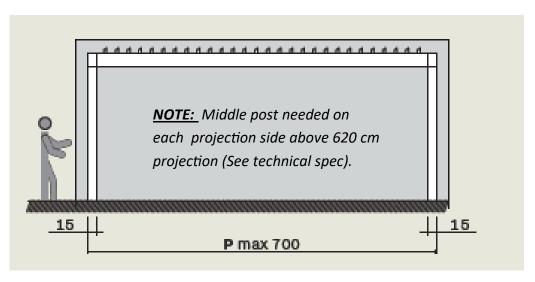
### **OPERA 03L:** Wall Mounted projection side wall P

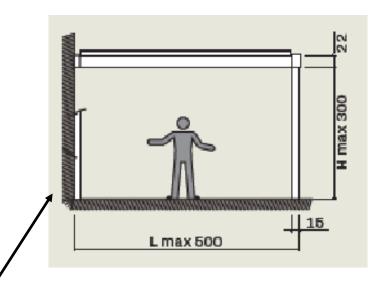




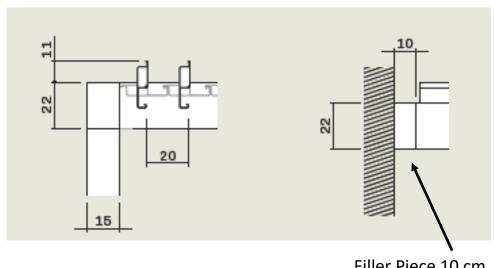
### **OPERA 03L:** Wall Mounted projection side wall P cont.

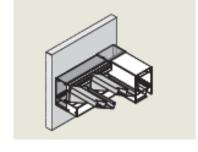
SIDE VIEW **FRONT VIEW** 





Compensation profile added with RASO screens 10 cm x 15 cm



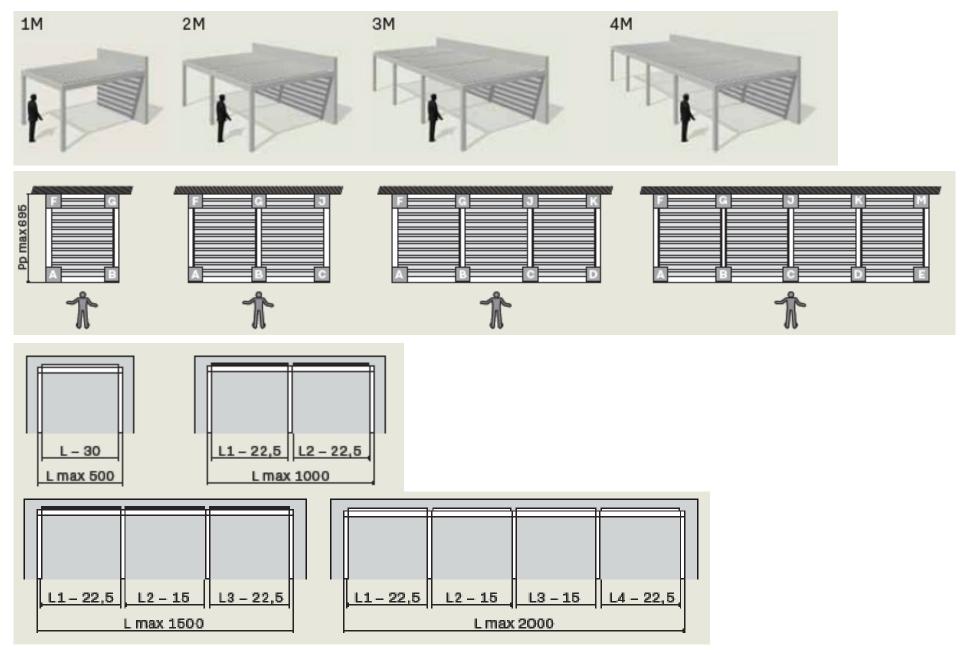


Wall mount

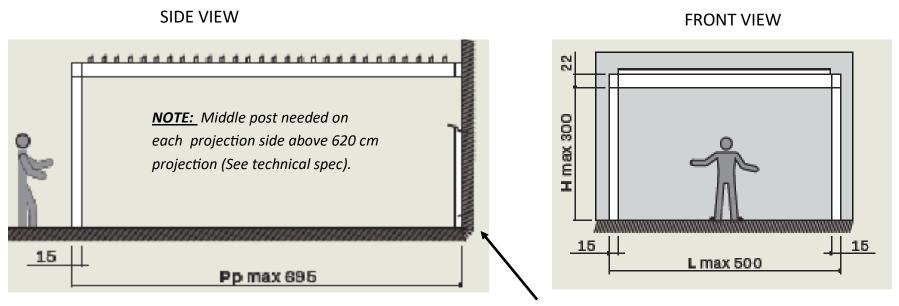
Filler Piece 10 cm

### **OPERA 04L:** Wall Mounted width side wall L with Profile

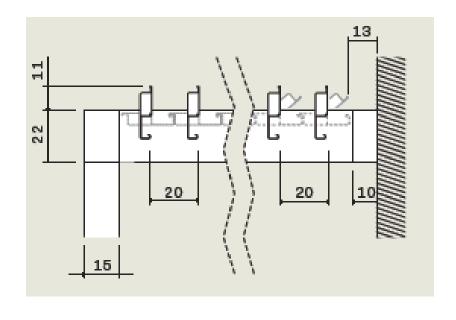
Max Projection 22' 6" (685 cm)

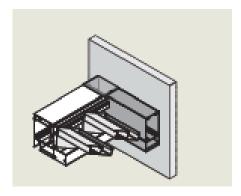


### **OPERA 04L: Wall Mounted width side wall L with Profile con't.**



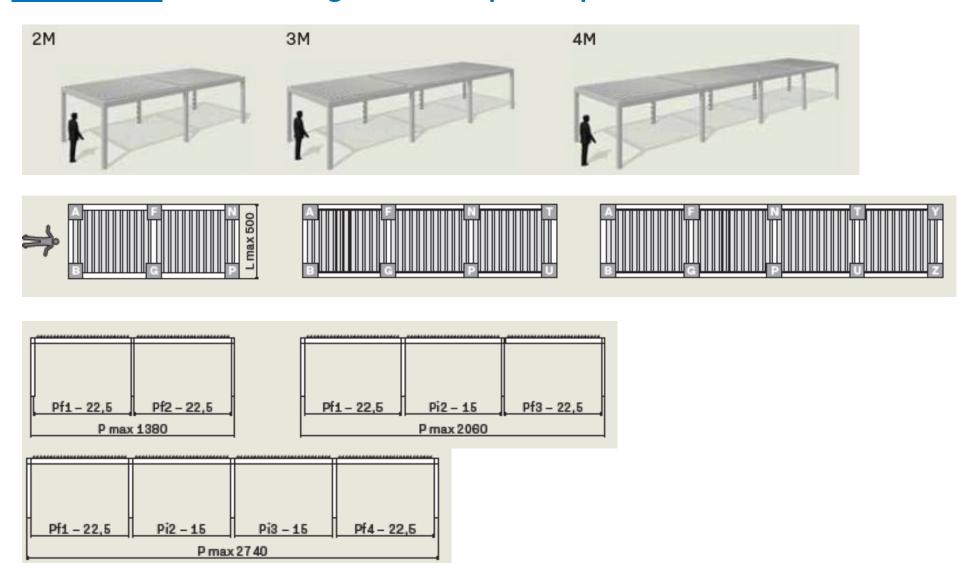
Compensation profile added with RASO screens 10 cm x 15 cm





Wall mount

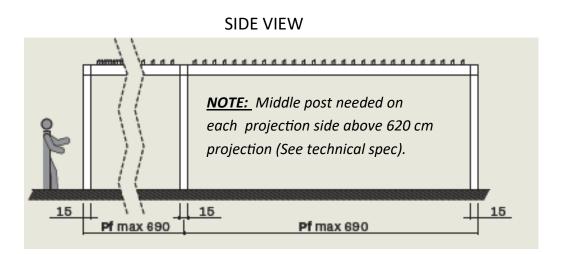
### **OPERA 01P:** Free Standing and if multiple Coupled on width side.

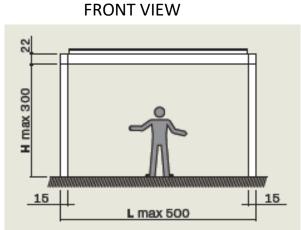


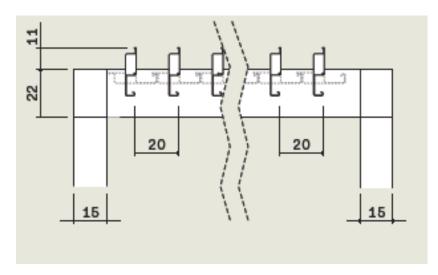
### **OPERA 01P:** Free Standing and if multiple Coupled on width side con't.

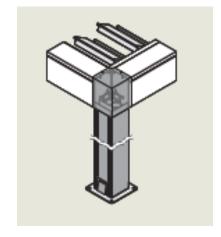
#### **Reduction for Coupling**



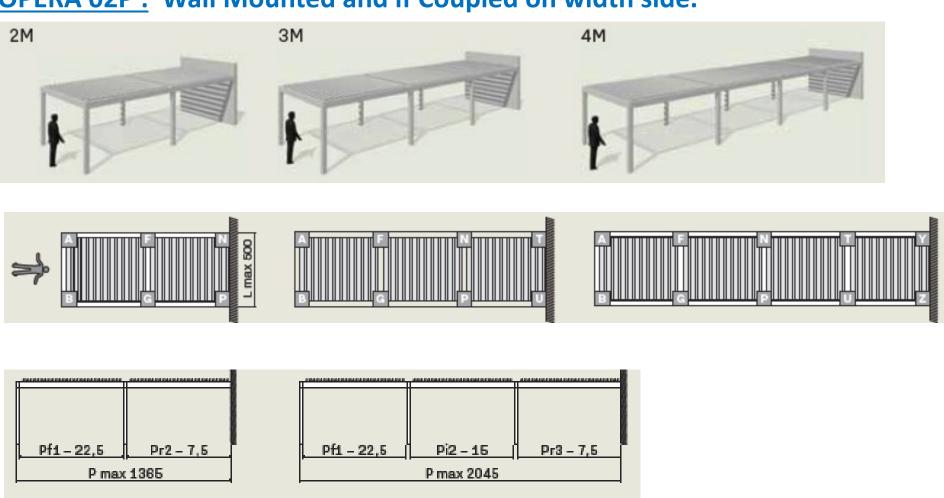


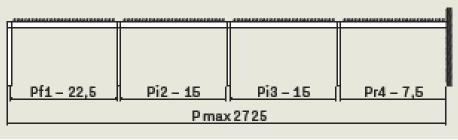






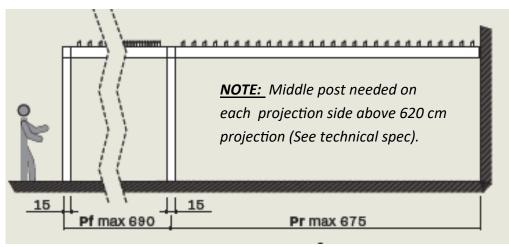
### **OPERA 02P:** Wall Mounted and if Coupled on width side.

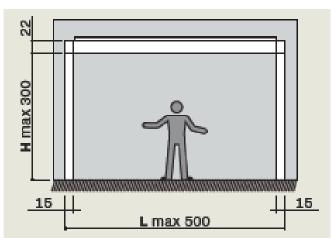


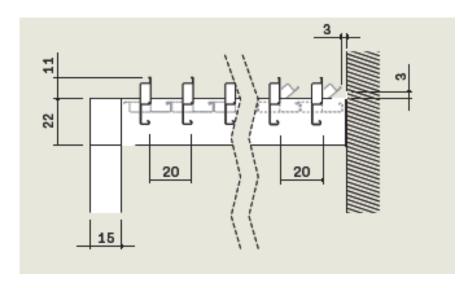


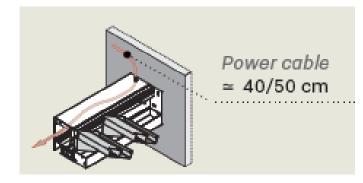
### **OPERA 02P:** Wall Mounted and if multiple Coupled on width side con't.

SIDE VIEW FRONT VIEW

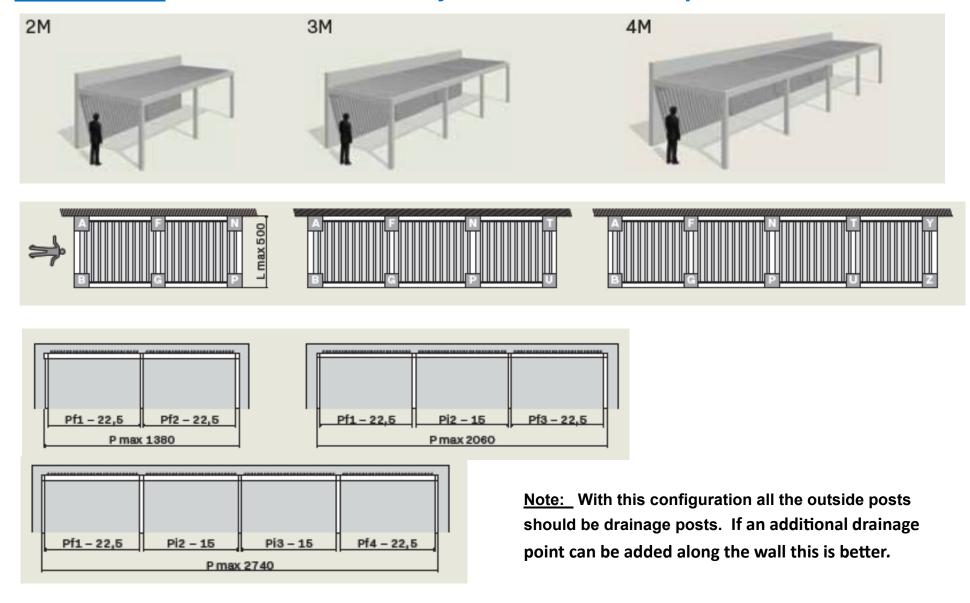




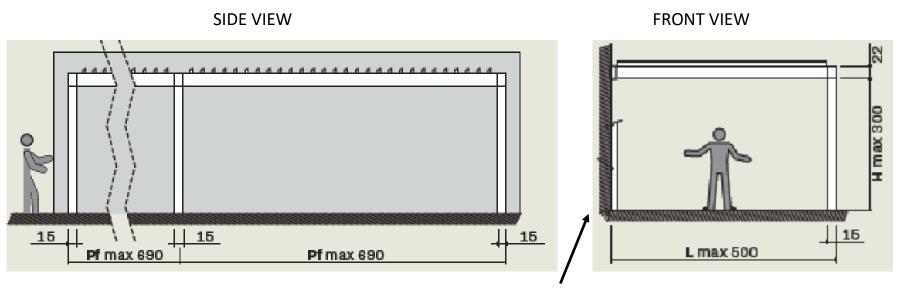




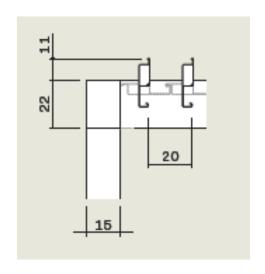
### **OPERA 03P:** Wall Mounted on Projection side and Coupled on width side.

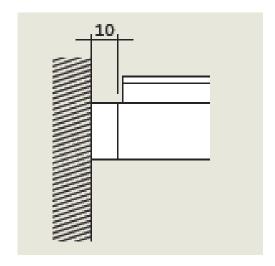


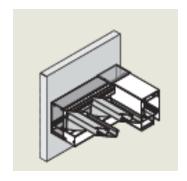
## **OPERA 03P:** Wall Mounted on Projection side cont.



Compensation profile added with RASO screens 10 cm x 15 cm

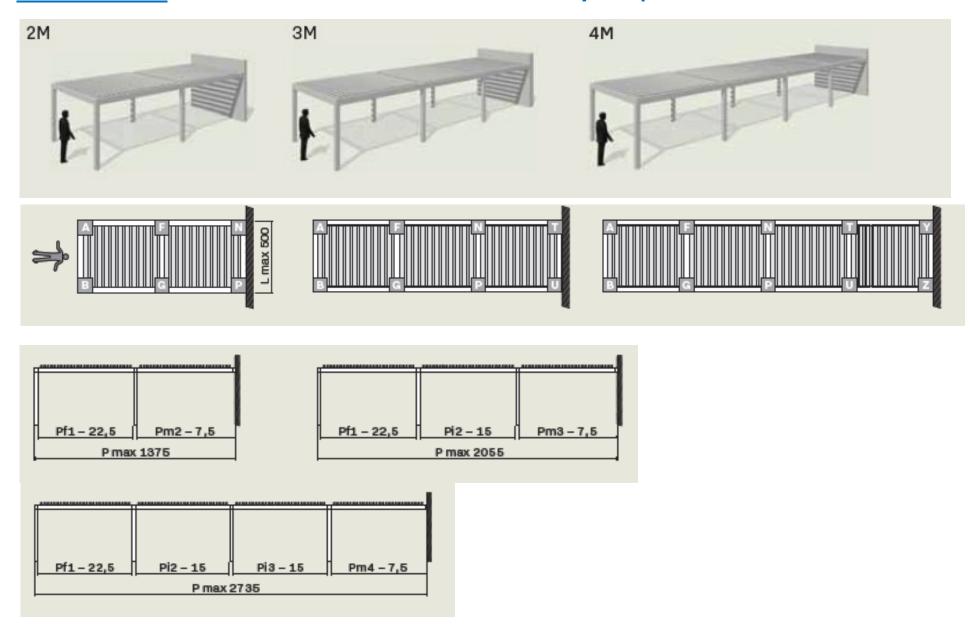




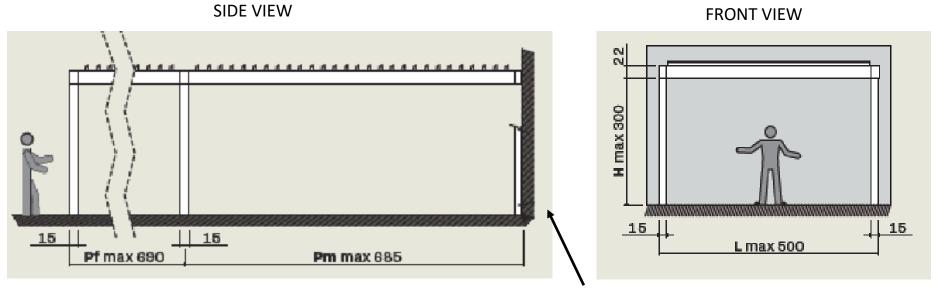


Wall mount

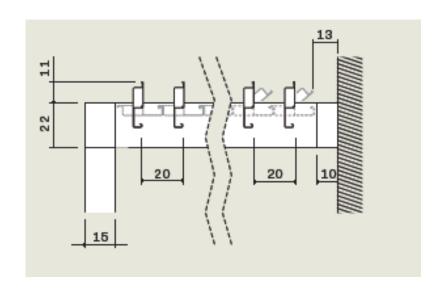
### OPERA 04P: Wall Mounted on Width side "L" / Coupled on width side with Profile.

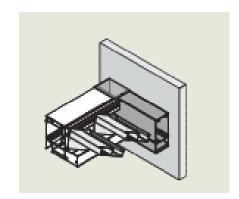


### OPERA 04P: Wall Mounted on Width side "L" con't.



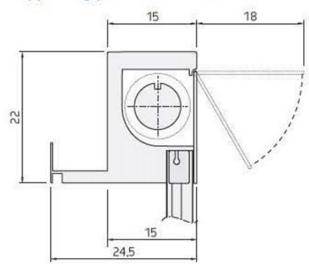
Compensation profile added with RASO screens 10 cm x 15 cm

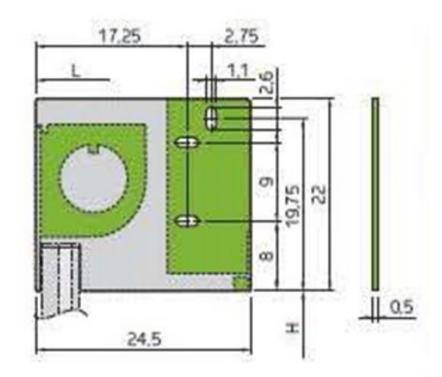




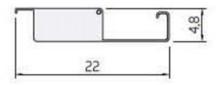
### **OPERA** technical details and dimensions.

Supporting profile with RASO box

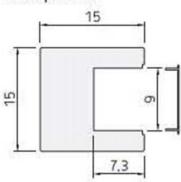




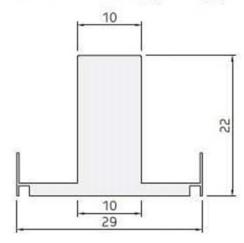
Blade profile



Post profile

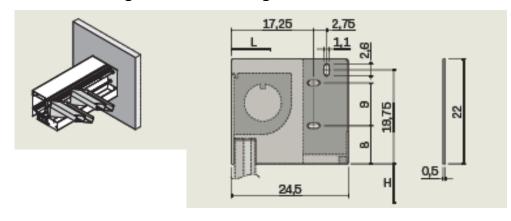


### Intermediate supporting profile

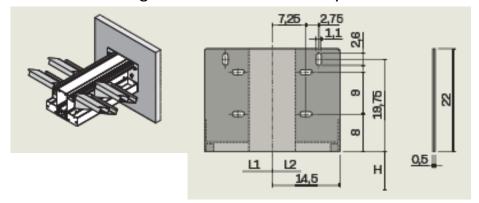


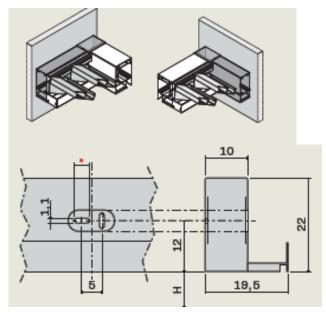
### OPERA technical details and dimensions con't.

#### Wall Mounting bracket mounting at sides



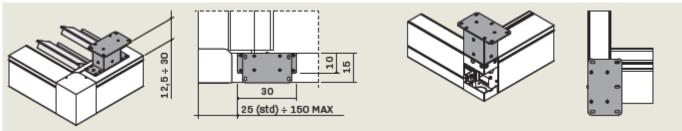
Wall Mounting brackets at Intermediary





Wall Mounting through the Profile

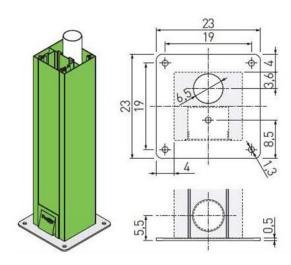
#### Optional Ceiling Mount Brackets (System height from 12.5 cm to 30 cm)



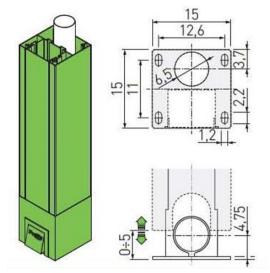
Type A uneven corner

Type B at corner

### OPERA technical details and dimensions con't.



Standard post feet. Standard height is 90" (230 cm). Above 230 cm is an upcharge. Maximum available Opera post height is 118" (300 cm).



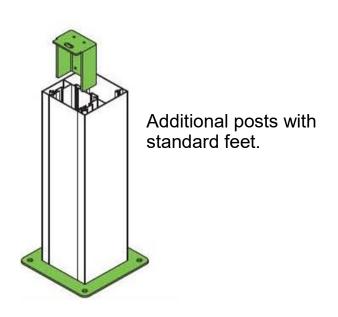
The "post" plate is as follows:

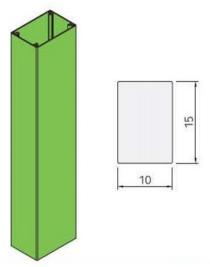
stainless steel 0.5 cm thick = 3/16" thick

Holes on center side to side along front 11 cm = 4.33 inches

Holes on center front to back apart 2.6 cm = 4.96 inches

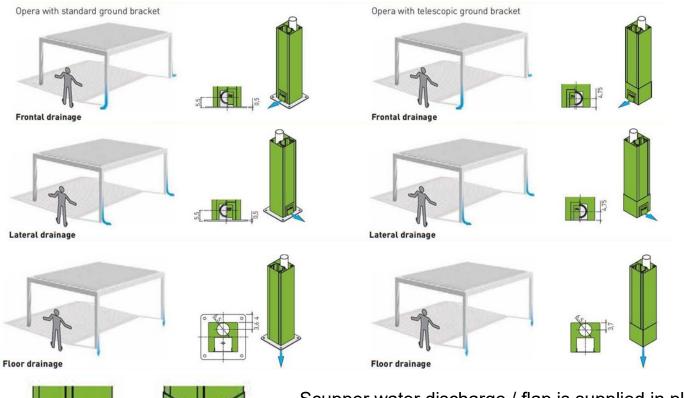
Optional telescoping feet up to 5 cm (2"). These are ideal on uneven surfaces and should be ordered if RASO screens are configured with the unit.

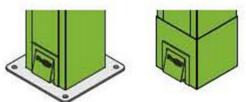




Optional wall posts if ordering Raso screens on 03 wall mounted configuration.

### **OPERA** water drainage details.





Scupper water discharge / flap is supplied in plastic can not be painted.

Note: You must make bottom of the post even with the decking or patio surface pavers (Do not add pavers around perimeter as they will block the discharge out the sides).

<u>NOTE:</u> The OPERA louvers are sloped slightly to one side so ideally more drainage points should be on the side the louvers are sloping towards in each module. Four drainage points is best per module, two drainage points per module is minimum, and three per two modules. Typically the drainage points are away from the wall on either side. If an additional drainage point can be added along the wall this is better. If multiple modules are joined, it is possible to eliminate some interior posts as drainage posts, but it can in severe weather affect the ability to drain well (More is better).

Sunair provides specifications for all our products including the Fabric Pergola roof awnings and Louvered systems. For specifications please go to www.sunairawnings.com and click on the "architects" section.

Once you register you will be able to download the model "specifications" needed. You will also find architectural and engineering drawings in this section.



# Specs are also available here



#### **SECTION SPECIFICATIONS 107313**

Retractable Fabric Roof Pergola Awnings
Patio Covers and Pergola Awnings Section 107313 (Old 10530)



SUNAIR AWNINGS & SOLAR SCREENS P.O. Box 1068 7785 Rt. 175, Jessup, MD 20794

JESSUP, MD 800 - 548 - 0408 PHOENIX, AZ 877 - 272 - 3920

#### Specifications for Fabric Roof Pergola Awnings by SUNAIR®:

PART 1 - GENERAL

#### 1.1 RELATED SECTIONS:

- A. 107113 Exterior Sun Control Devices
- B. 107300 Protective Covers
- C. 133133 Framed Fabric Structures
- D. 107316 Canopies
- E. 133100 Fabric Structures
- F. 133400 Retroatable Engineered Structures

#### 1.2 RELATED DOCUMENTS

- A. Drawings and general provisions of the contract
- B. Fabricated engineered Structure / aluminum frame
- C. Motorized retractable covering system / motors and controls
- D. Fabric
- E. Accessories

## Here is what Sunair can provide you to get your project started

- "DWG" Drawings and "specifications" for you to specify our Pergola awnings into your project.
- Engineer available to engage with you to verify and or design the system per local codes.
- Provide fabric and frame color sampling.
- Provide a local dealer for sales, installation and service.
- Assistance with your shop drawing and engineering drawings.

Please email us at info@sunairawnings.com or go to www.sunairawnings.com for further information. Either click on Pergola Awnings tab, or go to "Architects" section at top of the home page and register. If you can not locate what you need, please contact us.

#### **ENGINEERING OF YOUR PROJECT:**

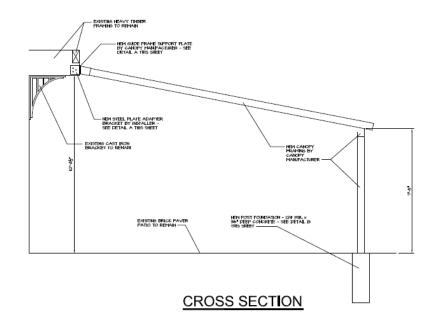
Part of the process in engineering the Pergola Awning project and prior to determining final project cost, you will need to evaluate where the Pergola awning is being installed. In all commercial projects and most residential projects a permit is required. In most cases complete site specific engineering of the system is required for permitting and often these engineering drawings will need to be signed by an engineer. If the Pergola is being installed on a multi-story structure, near the ocean, or in an areas of the country or islands subject to heavy winds or heavy storm events you will need to take extra caution in designing the system. Sunair and Pratic has basic engineering calculations available for your use in determining the best awning configuration for your project to see if it meets local conditions and local codes. These calculations are also accompanied by published wind files. If these wind files that Pratic publishes does not meet code or your wind resistance needs, Pratic engineering can review the sizes of the units, and possibly reconfigure the modules in addition to offering re-enforcements options to the structure and installation. If additional engineering calculations have to be made, there will be a fee for that.

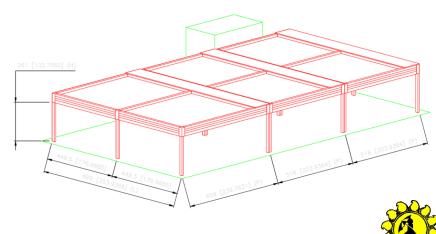
Feel free to contact our sales department and we will be happy to assist you at 800-548-0408 or send an email to info@sunairawnings.com

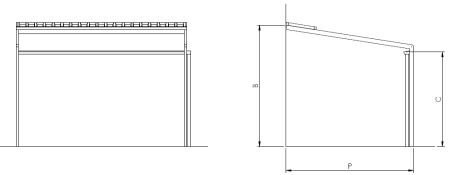
# RENDERINGS OF YOUR PROJECT: Available for a fee



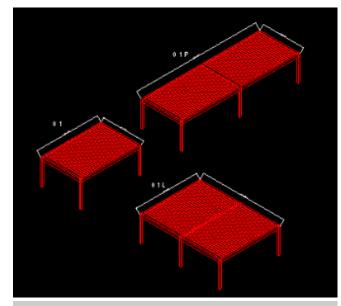
# **TECHNICAL DRAWINGS:**

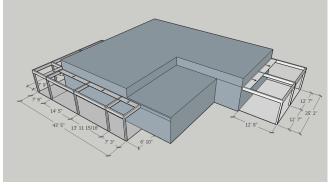






# Sunair will provide DWG drawings.

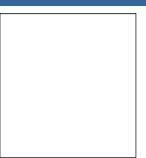




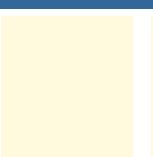
#### STANDARD FRAME COLORS FOR ABOVE PERGOLA MODELS:



WHITE Gloss
Ral 9010



WHITE SAND
Coarse Ral 9016



IVORY SAND
Ral 1013 Coarse



IVORY / SEMI Gloss Rai 1013



GREY SAND Gloss Ral 9006



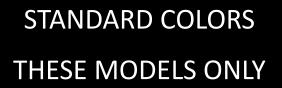
BRIGHT ALUM
Matt Ral 9006



CORTEN Coarse



IRON GREY
Coarse





#### NOTE:

ACTUAL FRAME COLOR MAY VARY FROM DIGITALIMAGES



FULL RAL COLOR RANGE / EXTRA COST

www.ralcolor.com

# OPERA:

OPTIONAL <u>30 TIGER DRYLAC</u> FRAME COLORS FOR ABOVE PERGOLA MODELS:

30 TIGER COATING COLOURS CLASS 2

Extra cost and possible extra lead time.

Please conform with Sunair office.

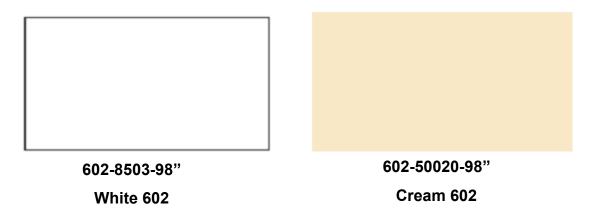


#### NOTE:

ACTUAL FRAME COLOR MAY VARY FROM DIGI-TALIMAGES

#### RASO SCREEN STANDARD FABRIC COLORS

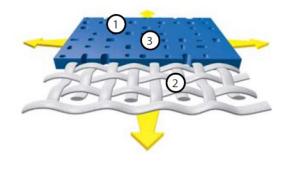
#### 602 FLEX LIGHT CLASSIC / OPAQUE COLORS



The Precontraint 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 and Raso side screens. 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. Fabrics are Fire Retardant and certificate is available.

5 year warranty from Ferrari on a retractable system







#### OPTIONAL RASO SCREEN FABRIC COLORS

#### **502 PROOF SOLTIS / OPAQUE SATIN FINISH COLORS**

The Precontraint 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.







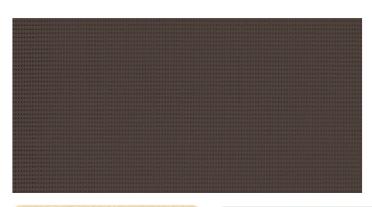


# Serge Ferrari

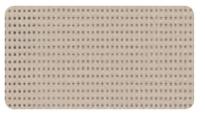
14 % Open Screen Mesh

#### Raso Screen





86-2043 Bronze



86 – 2135

Sandy Beige

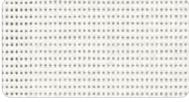


86 - 2053

Black

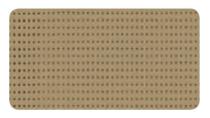


86 – 2175 Champagne



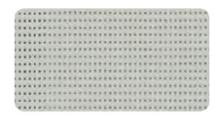
86 – 2044

White



86 - 2012

Pepper



86 - 2171

Boulder

#### Technical properties

Openess factor	14%
Weight	380 g/m² — 11.2 oz/sqyd
Thickness	0.45 mm — 450 microns
Width	177 cm - 267 cm — 69.7 in 105.1 in.

Superior elongation and tear resistance

No deformation during processing and use

Superior aesthetic and mechanical durability

Smooth finish easy to clean, space saving, easy rolling

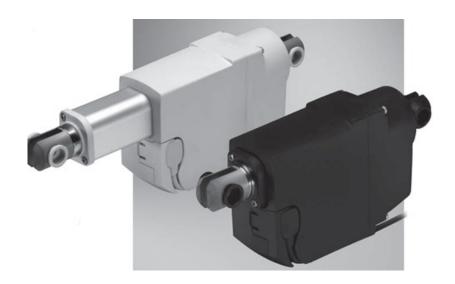
#### **OPERA MOTOR**

#### 24 VOLT BLADE MOTOR OPERA & VISION / Technical



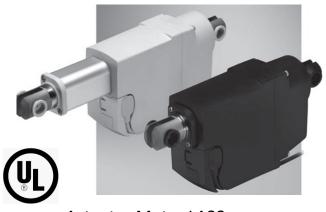






The Linak Actuator Blade motors are 24 volt motors. They operate the Louvered metal blades only for the top roof to rotate the blades back and forth from 0 - 140°. A 150 watt transformer is included with the Opera or Vision unit and is pre-wired inside the Post of the Opera unit. The transformer is pre-wired in the top gutter system of the Vision model. The input for the 150 watt transformers is 230v or 110v and with either 50Hz or 60 Hz. Each "Module" will have its own 24 volt motor. If multiple Opera or Vision sections are joined together, each unit or module will have its own 24 volt Linak motor. The Louvered Pergola remote NOON remote transmitter is available in multi-channel to accommodate multiple Linak motors as well as also controlling the LED strips and lighting. Any optional "Raso" roll down screens configured with your Opera unit will use a 110 volt Somfy Altus motor and will be wired separately from the Linak 24 volt motor. The Somfy motor does not utilize a transformer and has its own Telis Somfy remote. The Linak "blade" motors will have its own remote controller and any roll down screens will have its own remote controller. Up to two (2) Linak Blade motors can be wired on each 150 watt transformer. Four (4) Louvered modules will be wired with two – four transformers.







HLG-150H Transformer 150 watts

UL. UL8750 (type HL)

DC voltage 24 Volts

Rated Current 6.5 amps

Rated Power 151.2W

Actuator Motor LA23
UL. UL60601-1

DC voltage 24 Volts

#### **Optional Rain Sensor**



**Optional Wind Sensor** 



EVO Remote Transmitter
42 channel

FCC ID: P59TVEVO916S



Available in Future:

NOON ATM00027

Remote Transmitter

49 channels / 63 function



## Screen motor for RASO zipper screens







#### **SCREEN MOTORS:**

The screens are available with the <u>525 altus SOMFY</u> motor and also the <u>525 Maestria Obstacle detection motor</u>. 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		
	_	white = neutral
RTS		black = hot
120 V / 60 Hz 3 conductor cable		green = ground

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	

#### **SOMFY REMOTES FOR SCREENS:**



Telis 1 & 4 RTS Hand-held Remotes



Situo 1 & 4 hand held remotes

One (1) through (16) channel hand held or wall mounted remotes are available. Remotes are available in different colors to suit your style, please inquire.



Telis hand-held remotes offer convenient and simple operation of every type of motorized application. Channels help organize the motorized products that are operated. Single channel remotes can operate one individual product or one group of motorized products. Multiple channel remotes can handle groups of motorized products.



Telis 1 Chronis RTS Timer



DecoFlex WireFree™ RTS Wall Switches



Telis 1 Patio for exterior use



Smoove® 1 RTS Surfact Mount Wall Switch



Telis 16 RTS Hand-held Remote

## **Somfy motor sensors:**



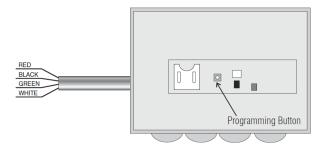
# SOLIRIS RTS 24V KIT Sun & Wind Sensor

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.



#### DRY CONTACT INPUT RTS TRANSMITTER

Dry Contact to RTS interface can be used to communicate between home automation or other third party systems like fire alarms to retract screens in an emergency. Can be interfaced with a physical switch (Battery powered. Battery designed top last at least 2 years.

## OPERA LOUVERED PERGOLA RAIN SENSORS (NON SOMFY)

The Rain Sensor is a low voltage wired sensor that connects directly to the Opera and Vision louvered system and Teleco remote. If rain is detected, the pergola will close and the remote control will be needed to open it back up. This sensor is not compatible with Somfy.



**Rain Sensor** 

# **Somfy TaHoma® RTS Smartphone and Tablet Interface**

The Somfy TaHoma® gateway and smart phone app provides convenient and customized control of Somfy powered motorized shades, blinds, and other motorized solutions. Control up to 40 RTS (Radio Technology Somfy) channels using the TaHoma app. Multiple TaHoma devices can be joined for multi-zone control.



- North America app, you can remotely activate both Zigbee and RTS products Supports UP/ DOWN/MY/STOP commands for motorized shades/blinds.
- Supports incremental control for Tilt motors and lighting 2 Supports ON/OFF commands for control of lighting or other devices powered via the Zigbee Smart Plug Multiple users.
- Remote access Control4® Certified ② Integration with third-party systems over IP ② Compatible with Somfy Synergy™ API













5011









# **Bond Home / Smartphone and Tablet Interface**

<u>Bond Bridge</u> and <u>Bond Bridge Pro</u> works as a bridge between Wi-Fi and your remotes recorded signal allowing you to operate your Sunair shades, awnings, pergolas, ceiling fans, fireplaces and more with the Bond app. Works with Somfy and other motor manufacturers.



# Remote control from anywhere



#### **Bond Bridge**

- Works with Alexa, Google Home, and SmartThings,
- Remote Control via Bond Home app
- Works with iPhone or Android
- No installation needed
- Smart home functionality without breaking the

Bond Bridge Pro: Added features...

- Ethernet port & PoE technology
- Smart home integrations
- Ceiling and wall mount

#### **OPTIONAL:**

• Sidekick for Shades: 5-channel Shade and awning

#### **BOND REMOTE SWITCH:**

# Sidekick for Shades/Awnings: 5-channel Shade Keypad



- Wireless flush mount shade remote.
- Communicates directly with the shade.
- 10-year battery life.
- Set up shade limits no manufacturer remote required.
- This version of Sidekick does not support Scene Keypad functionality.
- 10-year battery life.
- Install with or without a workbox (flush mount).
- 5-channel control.
- Set up shade limits no manufacturer remote required.



# **Teleco Daisy / Smartphone and Tablet Interface**



The Teleco Daisy is the control system for the Louvered Linak motors and all the Teleco LED lighting on the Bioclimatic Pergolas. This Wi-Fi interface App, is programmable to remotely control all Teleco devices using a Smartphone or Tablet.

Innovative and easy to use: It is possible to program and control all installed automations, individually or in groups, to adjust the intensity/powering on / powering off in automatic or manual mode of the lighting, to create multiple scenarios and to call them up at any time.

- Daisy lets you interact with all automated systems from anywhere in your home, even from a distance, with Smartphone or Tablet
- It's so simple to create scenes and program the weekly timer
- Remote control via Wi-Fi through the creation of a free account in the Teleco Cloud
- Possibility of connecting multiple smartphones or tablets
- Real-time feedback: verification of the status of Teleco BlueSeries devices from smartphone or tablet
- Voice control of Teleco systems using the Google Home or Amazon assistant
- Possibility of expanding the range using Wi-Fi repeaters
- Compatible with any Android (version 4.4 and later) and iOS (version 10 and later) device. We recommend installing the latest version of the operating system
- 230 V power supply unit included



# **OPTIONS: LOUVERED PERGOLAS**

# RASO ROLL DOWN ZIPPER SCREENS For OPERA



#### Note:

Maximum available Raso screen width will depend on fabric type. An additional intermediary post can be added to cover the side with multiple screens.

Optional roll down screens can be added to the OPERA.

Note: Raso screens are NOT available with the "Vision" model.

The screens are available with mesh fabrics and also vinyl with windows (single or double). Please inquire on window size specifications needed.

#### **Available Fabric are:**

Tempotest Para Acrylic fabric (Colors from range)
Mosquito Mesh 50% open (Grey & Black)
Soltis 86 mesh (Colors from range)
Soltis 92 mesh (Colors from range)
Ferrari 502/602 with windows (Colors from range)

#### Max widths available:

Mosquito Mesh: 14'6" wide x 10' high

Soltis 86 & 92: 19'6" wide (6 m)

Para & Ferrari 502/602: 19' 6" wide (6m)

Ferrari 502/602 with windows: 13' wide (4 m)

NOTE: If OPERA projection is wider than the maximum allowable screen width above, an intermediary post has to be added at extra cost and two screens must be made in its place. Even if you want to wall mount the unit, you still will need post in rear to accommodate the Raso screens.







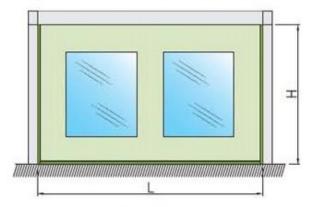


The **OPERA** model can be fitted with roll down RASO zipper screens for extra weather or sun protection on all sides. This optional screen system can be ordered with either mesh fabric, acrylic, or vinyl fabric and clear "film" windows for keeping moderate weather at bay during the winter months or rain during spring and summer months. If you only need sun protection on the sides or desire to keep mosquitos and pesky bugs at bay, our mesh fabrics will be fine.

Note: It is recommended in windy locations to reduce the size of the Raso screen, by adding an extra post in wider sections and splitting the opening into two screens, with an extra post in center



#### Raso screens with windows

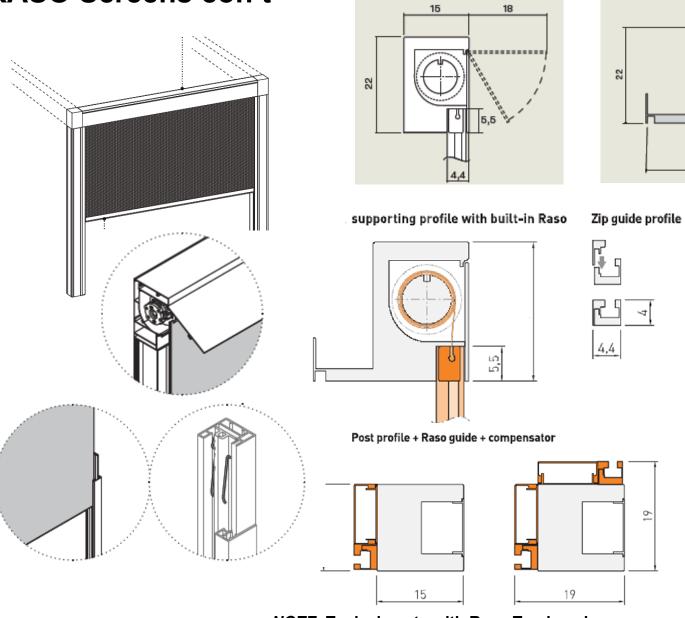


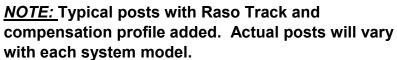
Minimum border width around screen perimeter must be at least 25 cm (10") when using Ferrari with windows (See illustration above)

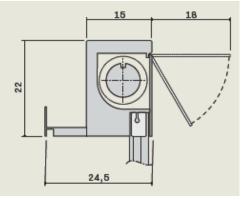


Raso zipper screens with mesh fabric

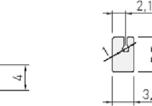
#### **RASO Screens con't**







ide profile Front profile



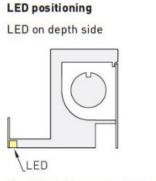


Optional Gasket at bottom of hem bar.

#### **OPTIONAL PERIMITER LED LIGHTING**







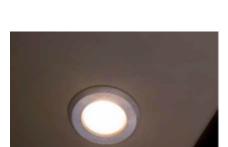
The LED lights on the depth side are integrated into the standard gutter profile.

The OPERA can be fitted with remote controlled perimeter LED mood lighting WHITE only or RGB strips. The LED strips are available for the perimeter of the system only and can be multi colored or white only. You can have the system automatically change the color periodically, or keep it one color. The lights are dimmable to the desired brightness. These lights are controlled with the same remote as the louvered 24 volt motor.



#### **OPTIONAL SPOT LIGHTING**









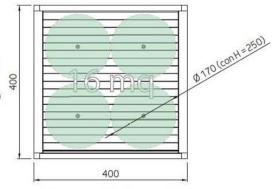
The OPERA & VISION can be fitted with white spot lights which can be added to the louvers where desired. The lights are dimmable to the desired brightness. These lights are controlled with the same remote as the louvered 24 volt motor.

Opera and Vision can include a lighting system using SPOT LIGHT dimmer lights recessed in the blades wherever you wish. The spotlights must be ordered at the same time as the Bioclimatic structure.

Full electrical hook-up, with wiring and spotlight installation will be done by Pratic.

#### CHARACTERISTICS

- LED 24 Vdc bulbs
- IP54 degree of protection
- . 3000 K light colour
- · Consumption: 4.5 W/bulb
- Light beam angle: 36°
- · Light emission: 380 lm



Example of light projection for Opera structures W = 400 D = 400 H = 250 with four spotlights

NOTE: Spot lights not available with BRERA model.

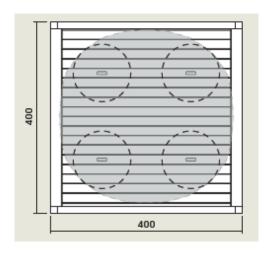
## **OPTIONAL QUADRA LIGHTING**



#### TECHNICAL SPECIFICATIONS

- · Dimmerable
- · Installed recessed on the blades
- · Pre-assembled electrical system
- · They must be ordered together with the structure
- Any after-sales requests of installation involve the invalidity of the guarantee for mechanical and electronic processing
- · Minimum two Quadra Light can be installed on every blade
- Recommended distance from the edge 50 cm
- · Maximum distance between Quadra Light lights 150 cm
- A rain sensor is recommended to avoid prolonged exposure to the rain with blades open

The OPERA can be fitted with white the Quadra Light which can be added to the actual louvered strips where desired. The lights are dimmable to the desired brightness. These lights are controlled with the same remote as the louvered 24 volt motor.



POWER SUPPLY: LED 24 Vdc

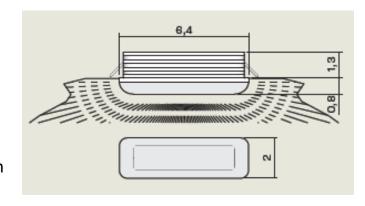
PROTECTION GRADE IP44

LIGHT COLOR 3000 K

**CONSUMPTION / BULB** 4.5 W

<u>LIGHT OUTPUT</u> 460 Lumens / m

**LIGHT PROJECTION** WIDESPREAD

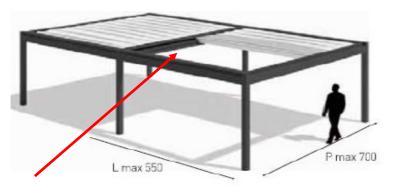


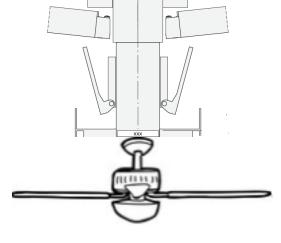
# FAN: Adding a fan:

#### Fan not included and by customer



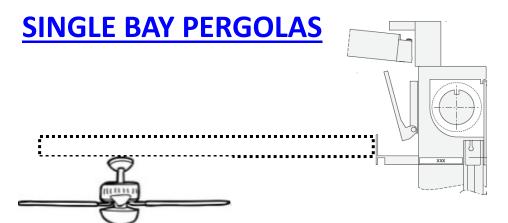
# **MULTI MODULE PERGOLAS**







Fan Can be mounted Here in between each module



# Mount a "Fan Bar" on the width side between gutters

Note: Max unit width 18 ft per module. <u>Fan bar</u> must run along the width of each module and <u>separately wired.</u>



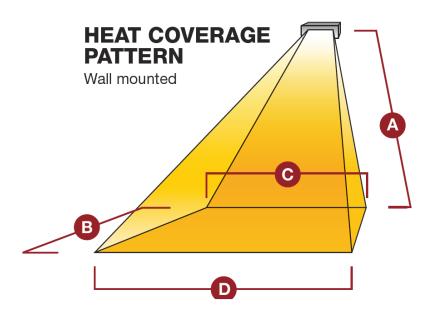


#### HEATERS COSY SERIES 1500 AW Sleek, Low clearance, infrared

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.

# Solaria Heaters con't

Note: Specifier / Customer must contact Solaira directly for recommended heater number and location.



#### HEAT COVERAGE EXAMPLES

Model	Α	В	С	D	Heat Zone*	Heat Density*
SCOSYAW15120 B/W	6′	7″ 8	8′ 8′	10´	70 SQ FT	18 WATTS/SQ. FT
SCOSYAW15240 B/W	6′	7″ 8	s´ 8´	10′	70 SQ FT	18 WATTS/SQ. FT

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

<sup>\*</sup>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 Solaira for a more detailed specifier guide.

## **Solaria COZY Series Heaters con't**

240 VOLT: 1.5Kw 208 - 240 V

Heater Model Black # SCOSYAW15240B Ral:9005

Heater Model White # SCOSYAW15240W Ral:9010

Controller #SPASCR90

One controller will operate up to <u>12</u> heaters

110 VOLT: 1.5Kw 120V

Heater Model Black # SCOSYAW15120B Ral: 9005

Heater Model White # SCOSYAW15120W Ral:9010

**Controller #SPASCR90** 

One controller will operate up to <u>7</u> heaters

# 105 mm [4] 179.95 cm [7.085 in]

Mounted

#### **NOTE:**

Maximum 7 ea. 110 volt heaters can be used per controller.

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



# INFRARED PATIO HEATER

ADVANCED LOW-LIGHT, LOW-GLARE CARBON FIBER EMITTER TECHNOLOGY



**AVAILABLE IN TWO MODELS** 

CF3000 3000W, 240V

CF1500 1500W, 120V

- Adjustable wall and ceiling mounting brackets included\*
- Durable extruded aluminum construction
- Virtually maintenance-free
- Instant heat, warm ambient glow
- Safe and odorless



Includes convenient remote control

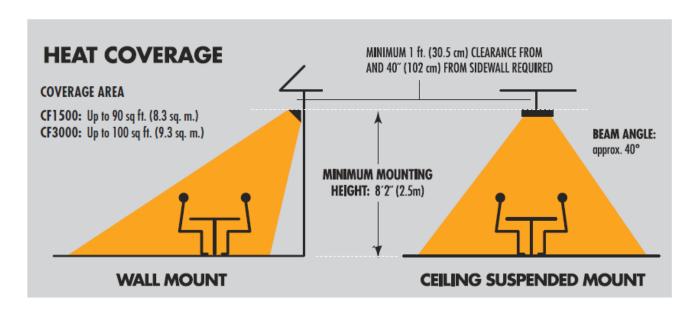
AURA CF3000 Carbon 3000W BLACK 208 - 240 VOLT: **Model # CF302408**AURA CF1500 Carbon 1500W BLACK 120 VOLT: **Model # CF151208** 



IP65 rated water resistant



Wall and ceiling brackets included\*

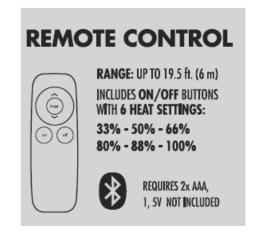


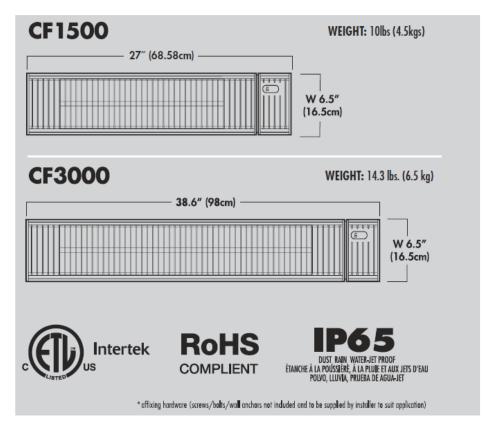
#### Note:

Specifier / Customer must contact Solaira directly for recommended heater number and location.



\*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 Solaira for a more detailed specifier guide.

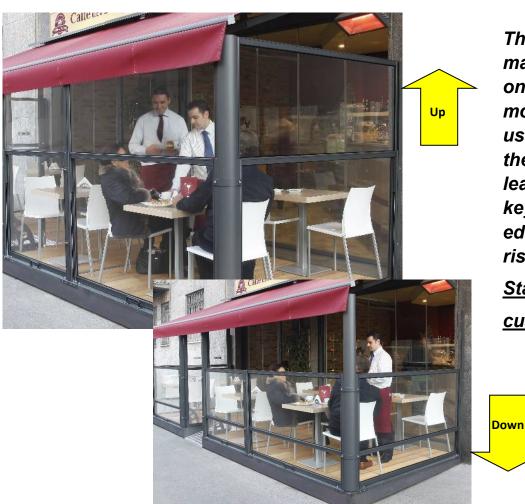




The AURA heaters is a more economical heater that simply plugs in to an outlet (110 volt version). This heater does not require a control box. The remote control is included in the price. Simply aim the remote towards the heater and you can custom set the heat from 1 - 6 on heat scale.



# **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.

<u>Standard and</u> <u>custom widths available</u>.







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**









# **SET FLOORING:**



#### **PRODUCT FEATURES:**

- Platform decking designed to be integrated with Bioclimatic Pergolas like Opera, Vision, Brera, Nomo, and Rialto.
- Sits on an existing supported concrete floor.
- Made to fit Pergola awning system.
- Assembled in place.
- · Can be fitted with different flooring types.

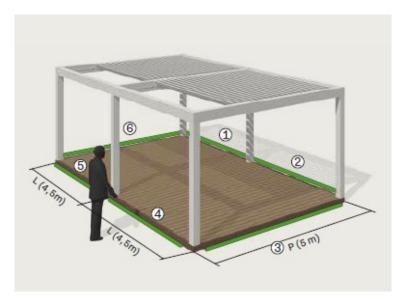




# **SET FLOORING cont'**









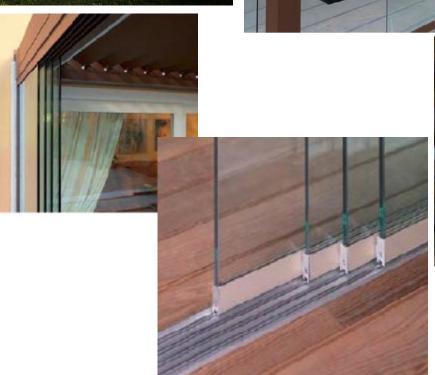


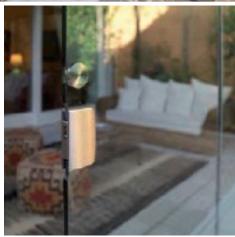
# **SLIDE GLASS Options for Pergolas:**



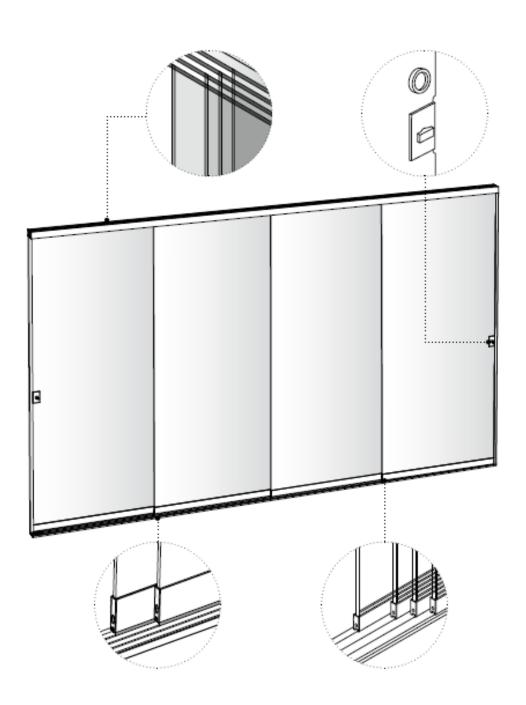












#### **PRODUCT FEATURES:**

- Glass Panels with aluminum frame.
- Ideal for Bioclimatic Pergola (Rialto, Vision, and Brera S).
- Can be installed along with Raso screens on Nomo, Opera, and Brera P Pergolas also.
- Extruded aluminum Profiles.
- Stainless steel handles.
- Stainless steel trolleys with ball bearings.
- Tempered Glass 10 mm thick weighs 25 Kg. / sq./meter.
- Tempered Glass 12 mm thick weighs 30 Kg. / sq./meter.
- Two, Three, or Four way sections.
- Max Length 700cm depending on number of glass sections.
- 10mm glass available up to 250 cm High doors.
- 12mm glass available from 260 cm to 300 cm high doors.
- Lead time is longer if slide glass is added.

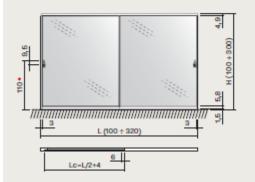
# **More Installations**

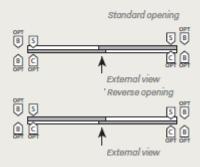




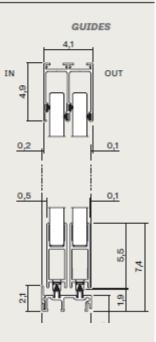


#### 2 ways - 2 doors

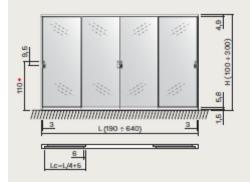


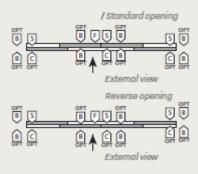


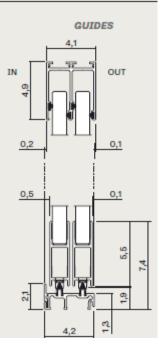
H standard of the closing "S" handle (min. H 25 cm)



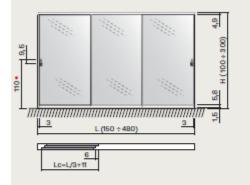
#### 2 ways - 4 doors

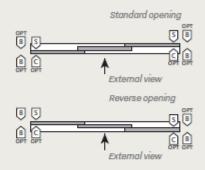


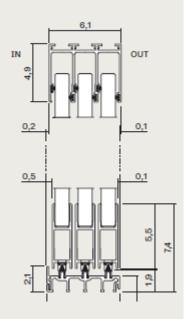




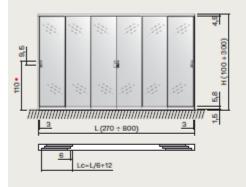
#### 3 ways - 3 doors

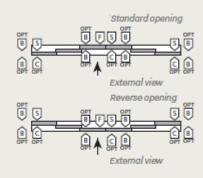


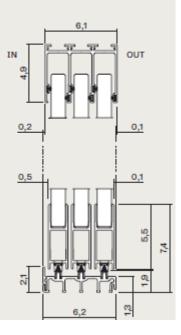




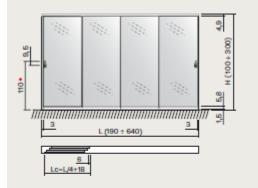
#### 3 ways - 6 doors

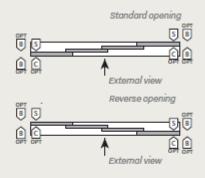


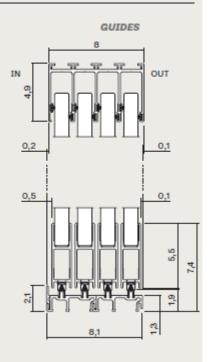




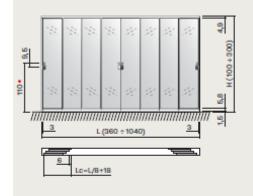
#### 4 ways - 4 doors

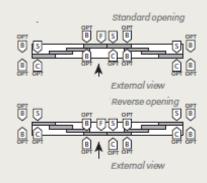


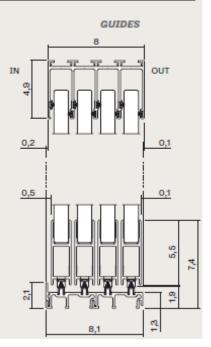




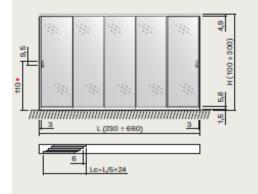
#### 4 ways - 8 doors

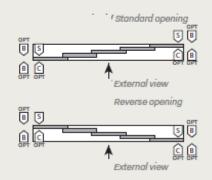


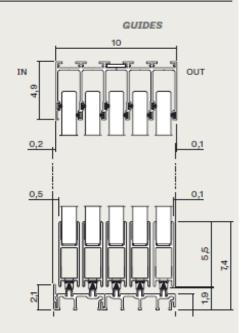




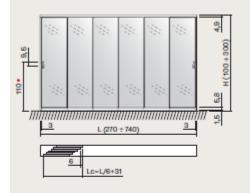
#### 5 ways - 5 doors

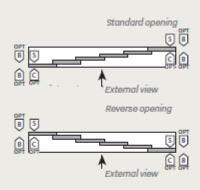


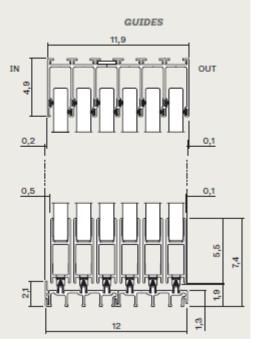


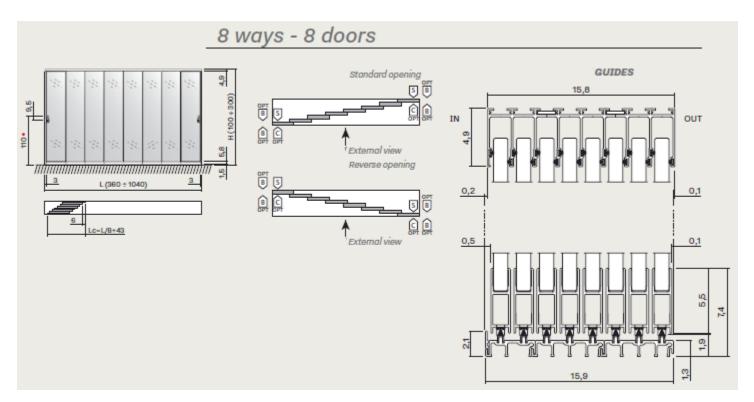


#### 6 ways - 6 doors



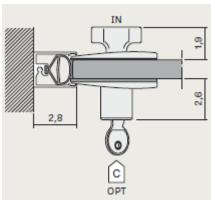








**Driving Handle Disk** 



**External Key Locks** 

Not compatible with Raso Screens.

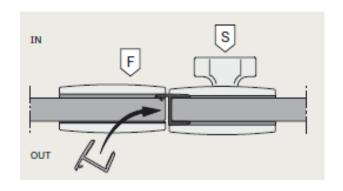
Each Lock has a key.

#### Door stop on bottom of floor track

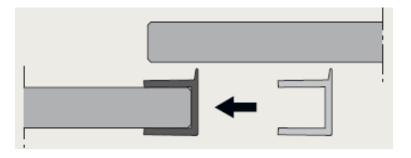


**Guide side installation** 

Installation between Tracks



**Door Seal** 



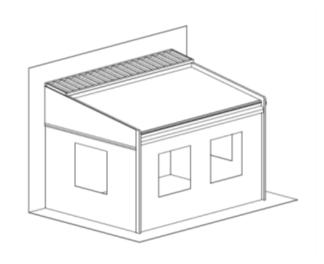
#### **Vertical Gasket Seal:**

**For overlapping Doors** 





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.









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