

Model: OPERA & VISION Bioclimatic Pergola®

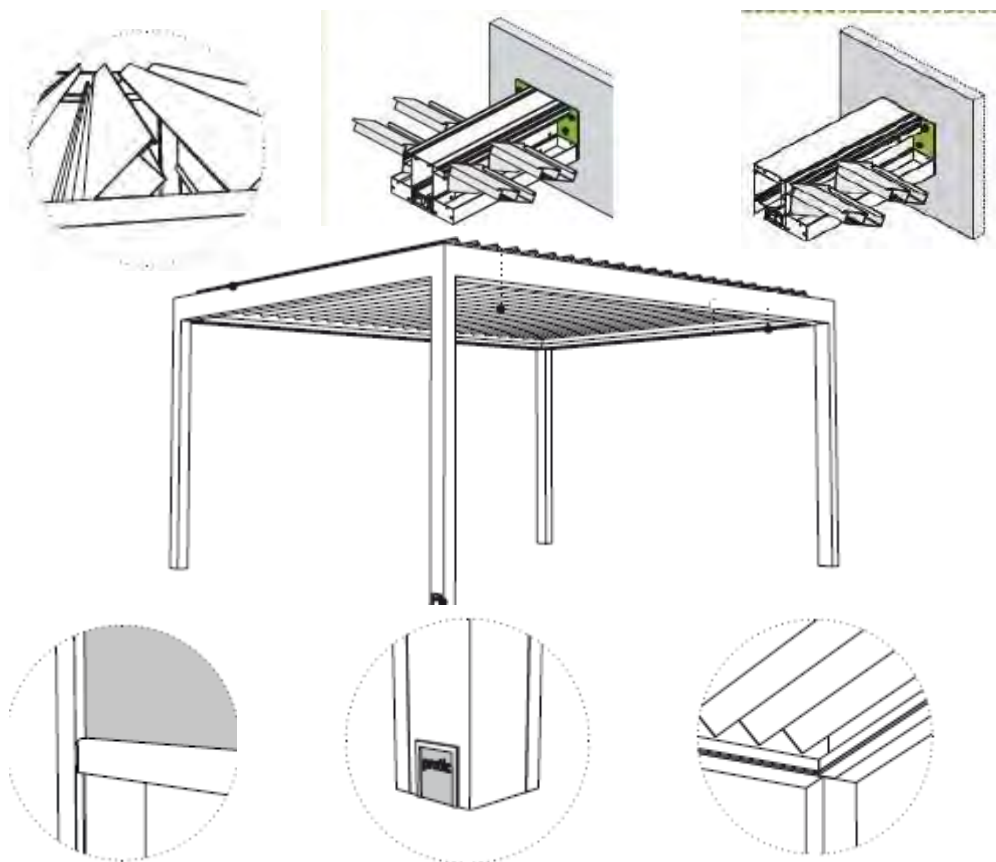
Revised 01/29/2019



Standard Frame Colors	Maximum Width	Maximum Projection	Options
8 Akzo Nobel colors plus optional custom RAL colors	5 m / 16' 5" wide Per module	*7 m Opera *6.9 m Vision 22' 11" / 22' 7 5/8" proj.	LEDs, Heaters, Side Screens

PRODUCT FEATURES:

- Motorized Louvered roof pergola.
- Ideal for free standing or wall mounted applications.
- Internal gutter and downspouts for water drainage.
- Designed to withstand some snow 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 model only.
- Ideal for adding roll down zipper screens to create an enclosed space.



OPERA & VISION: Commercial Installations



OPERA & VISION: Residential Installations



OPERA & VISION ADVANTAGES

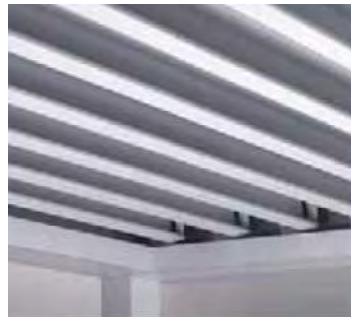
Blades Closed



Blades opened 45 degrees



Blades opened 90 degrees



Blades opened 140 degrees



Blades opened on side



Solar Modulation



Air Recirculation



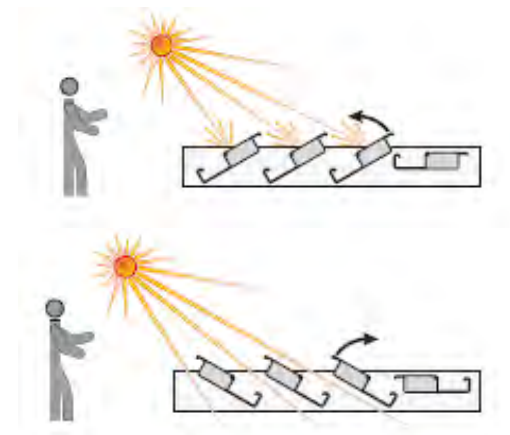
Rain Protection



Load Resistance



Opera and Vision have been tested to see how waterproof 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 x 19' 8" projection (450 cm wide x 600 cm projection) with two rain events or



ADVANTAGES con't

The OPERA & VISION 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.



The OPERA & VISION offer more pre-assembled structure components for a safer and easier installation on site.

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

OPERA & VISION is a solid, made to measure structure that can reach large sizes (16'5" x 22'11" for Opera model). Coupling of multiple structures to make larger sizes is possible with common posts .

ALUMINUM



The Bioclimatic Pergola Opera / Vision, and 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 resist 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.

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.

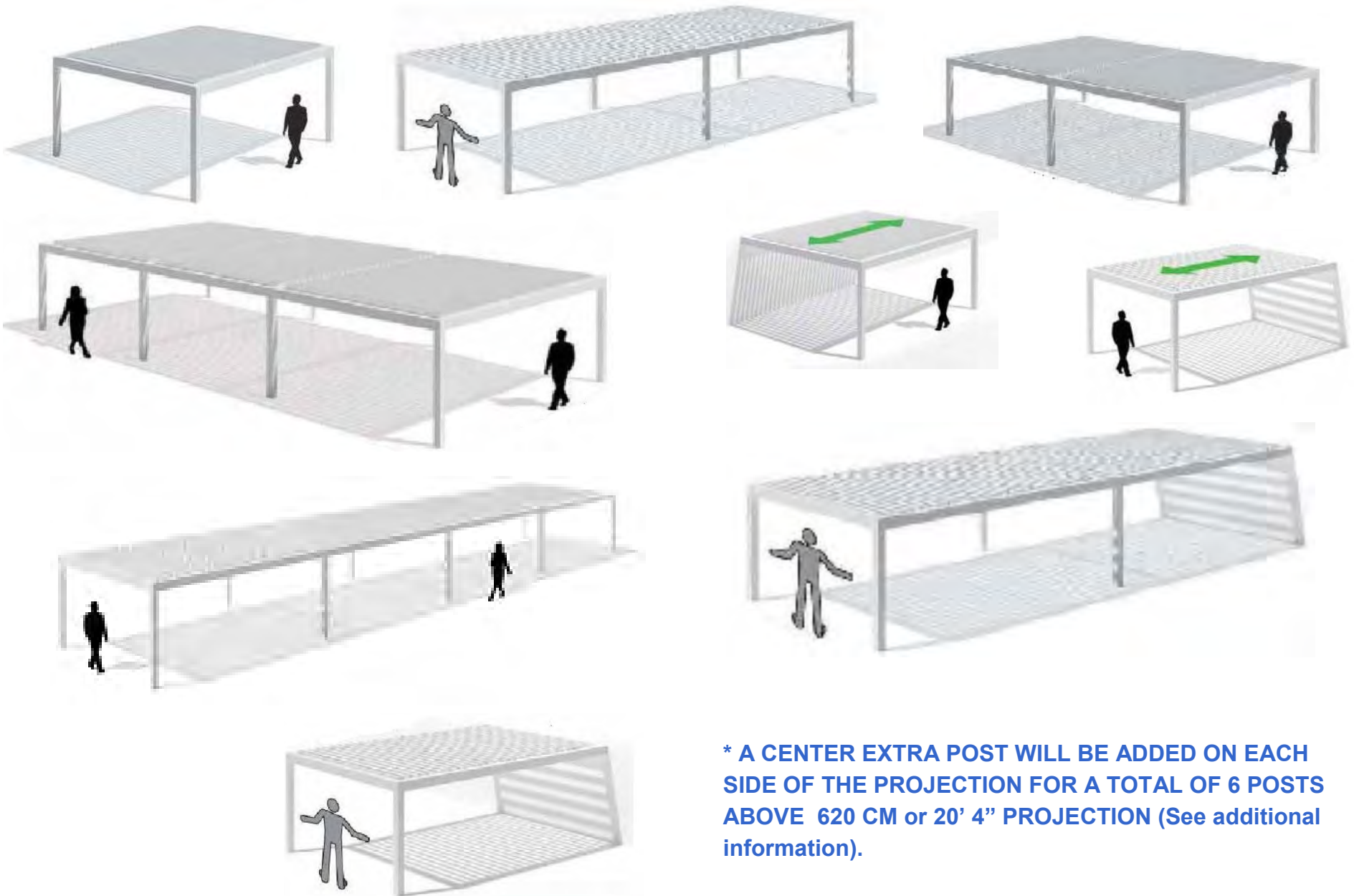
RESULT

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

SNOW LOADS

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

OPERA & VISION: Some possible model configurations



* A CENTER EXTRA POST WILL BE ADDED ON EACH SIDE OF THE PROJECTION FOR A TOTAL OF 6 POSTS ABOVE 620 CM or 20' 4" PROJECTION (See additional information).

More configurations



Out of standard configurations



Inquire with Sunair office on any system that pairs modules on both the (L) width side and (P) projection side simultaneously at the same time.



Vision model only.



Also inquire on uneven sections or modules to be joined.



Inquire with Sunair office on this possibility eliminating center post at front

Available with Vision Model only Max width 6 meters x 4 meters projection (19' 8" Wide x 13' 1 1/2" Projection). Optional cantilevered posts not available in this configuration.

Other Options (Please inquire with Sunair feasibility)



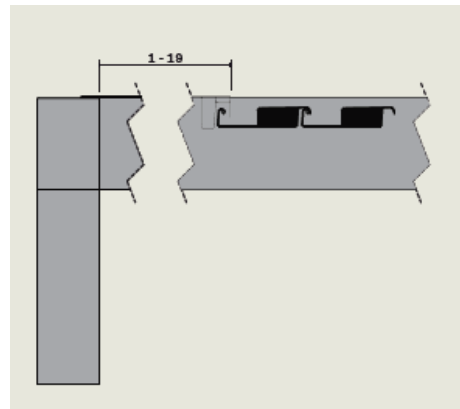
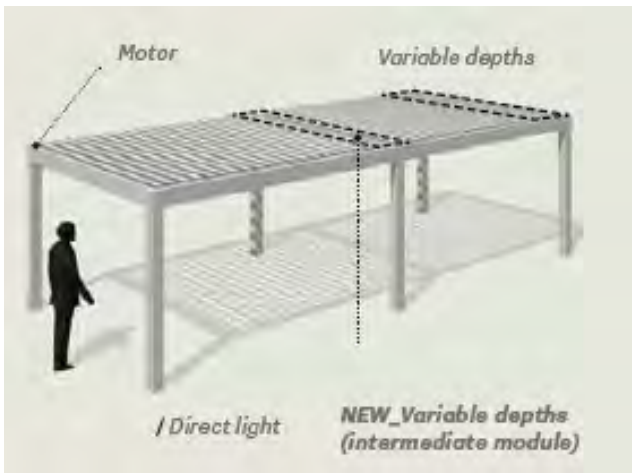
Cantilevered post maximum 100 cm or 39" from corner.



Vision unit mounted wall to wall. Available with Vision single module only. Standard size in this configuration is 5 meters x 5.9 meters projection (approx. 16' 5" w x 19' 4" proj.)

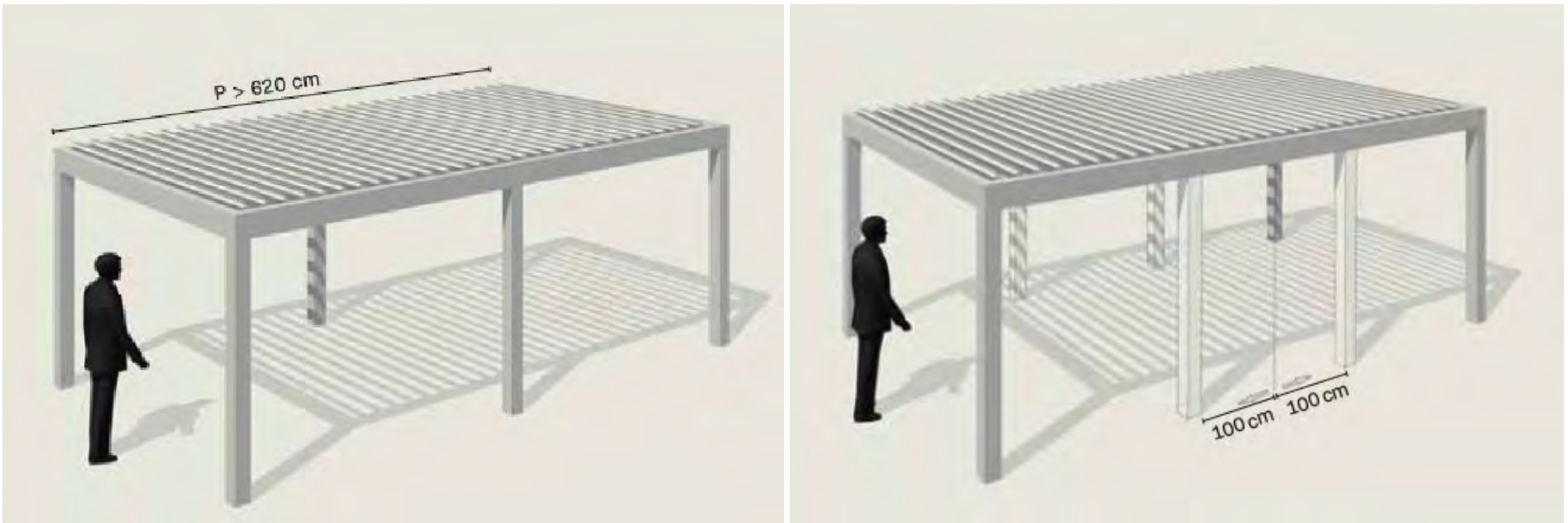
Filler piece can be added to make it more projection up to 600 cm (19' 8").

Please inquire with Sunair on exact size available.



Opera and Vision can be 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 and Vision 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.

Possible Sizes Per Module:



Max 500 cm

*Max Opera 700 cm

*Max Vision 690 cm

Post needed on projection side above 620 cm.



Max 1000 cm

*Max Opera 700 cm

*Max Vision 690 cm

Post needed on projection side above 620 cm.

OPERA:

Max module width 16' 5" (500 cm)

Max module proj. *22' 11" (700 cm)

VISION:

Max module width 16' 5" (500 cm)

Max module proj. *22' 7 5/8" (690 cm)

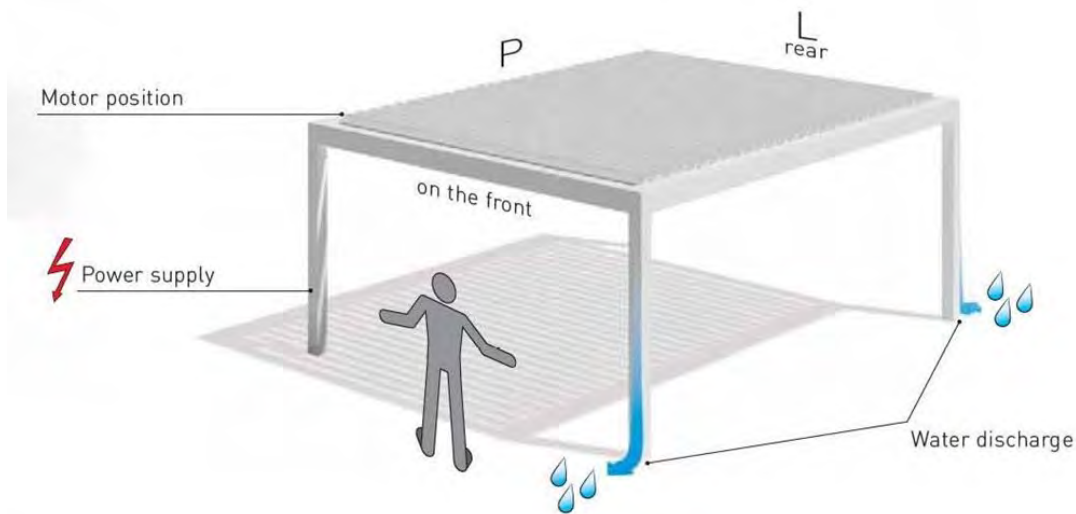
*NOTE: If over 620 cm projection, a middle posts is needed on each projection side.

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).

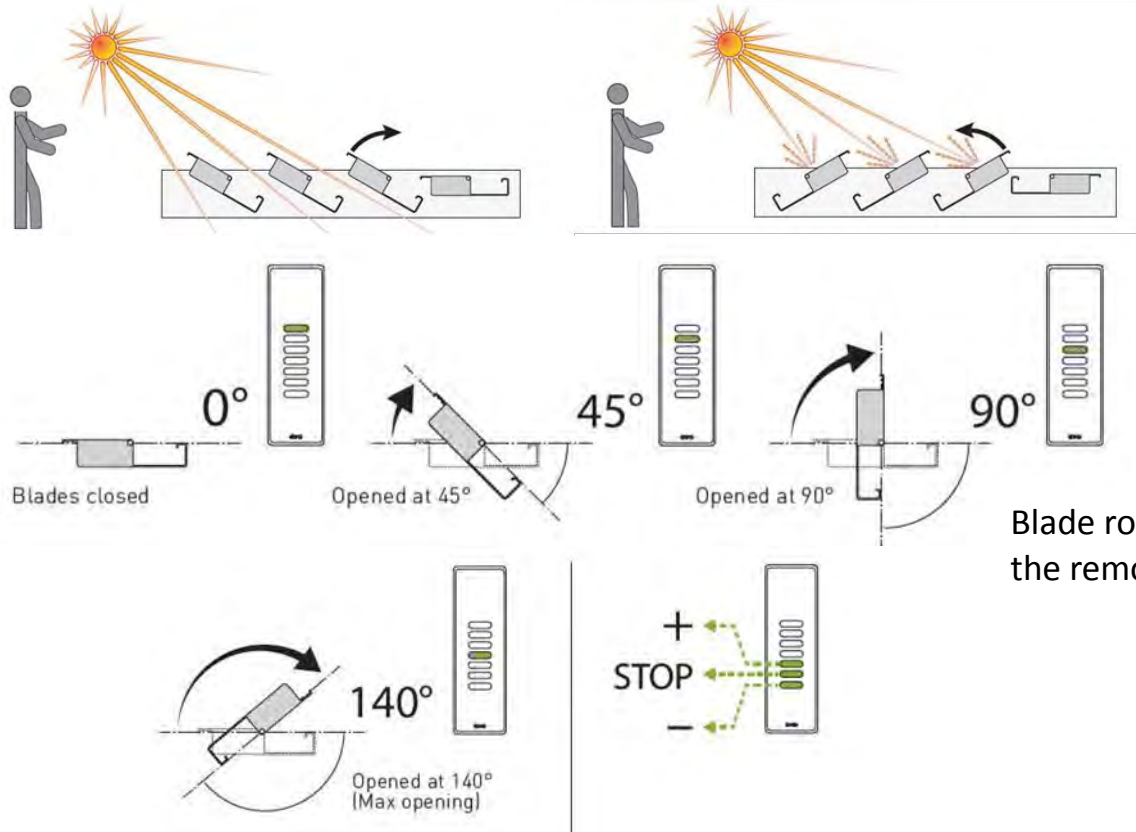
OPERA & VISION:

When coupled on projection side, max module projection is 19' 8" (600 cm) for Opera module and (590 cm) for Vision model. Please inquire with Sunair® office on exact finishing dimensions.



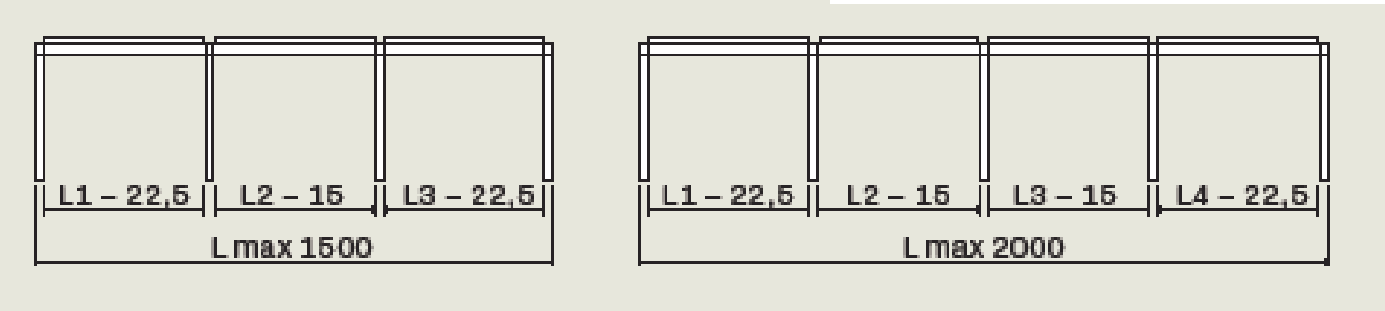
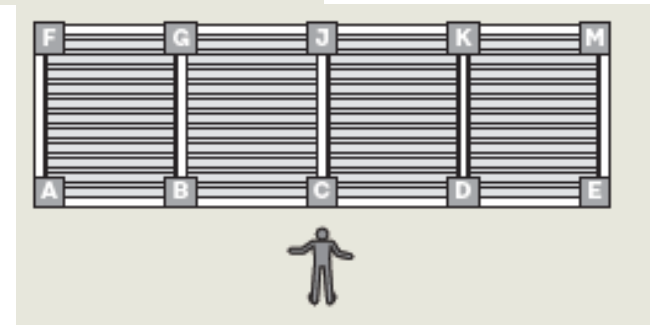
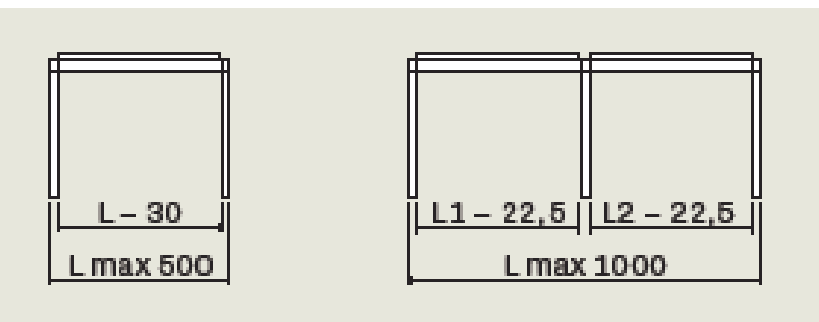
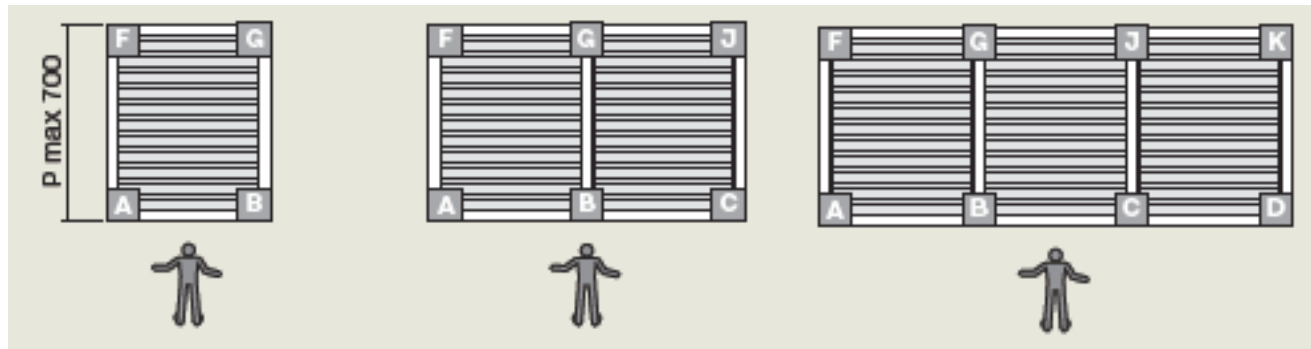
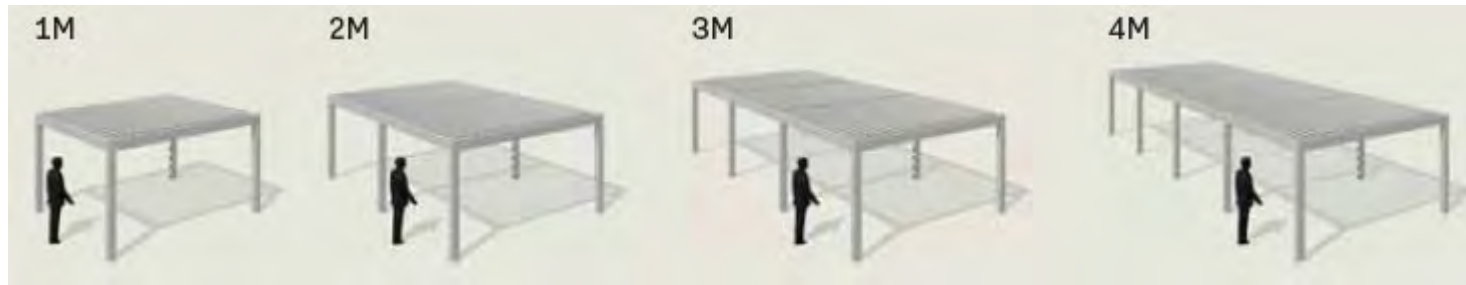
Water discharge should always be two (2) per module or section. It is not recommended to discharge in the posts that carries the electrical wiring. For additional modules at least one more discharge point is necessary per module.

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



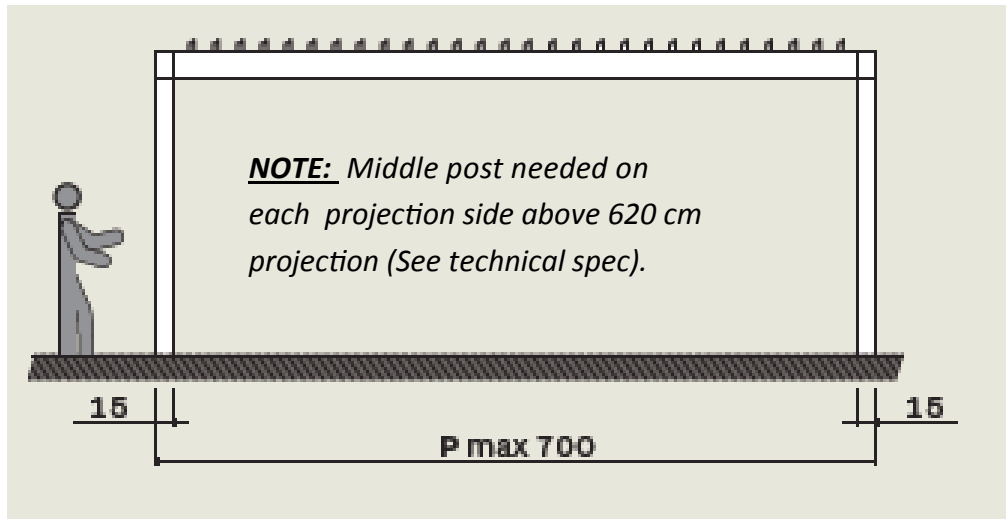
Blade rotation is pre-programmed on the remote as per pictures to Left.

OPERA 01L: Free standing Louvered system

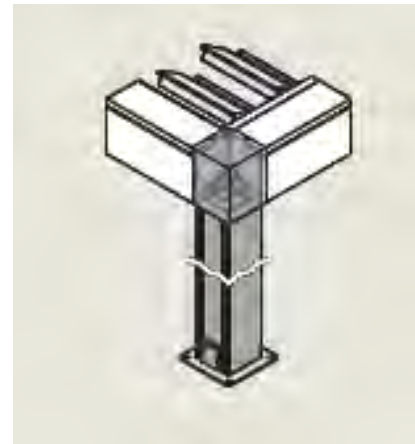
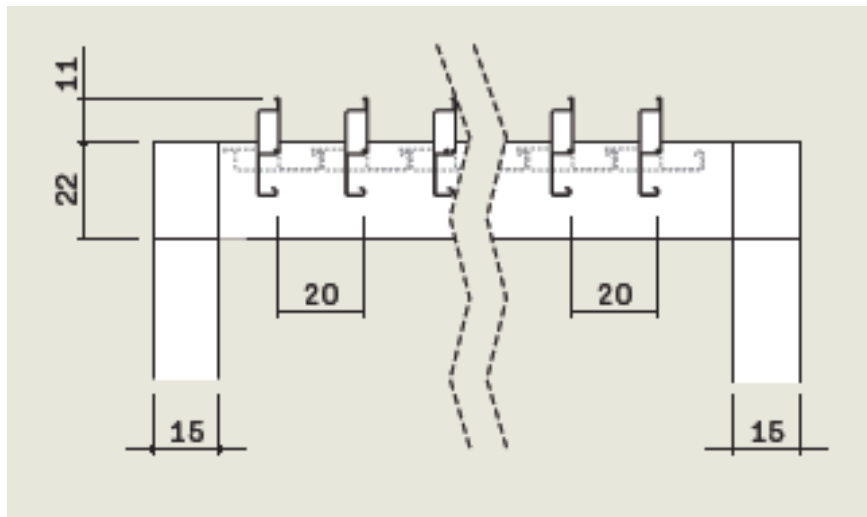
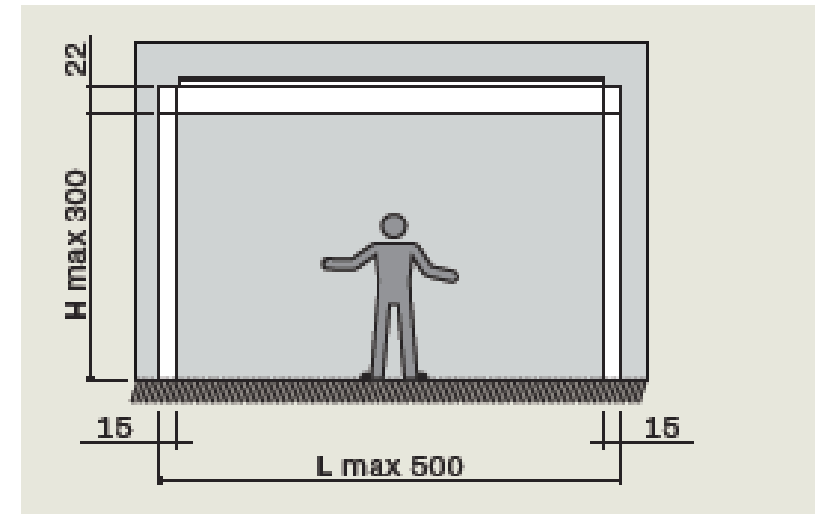


01L : Free standing con't.

SIDE VIEW

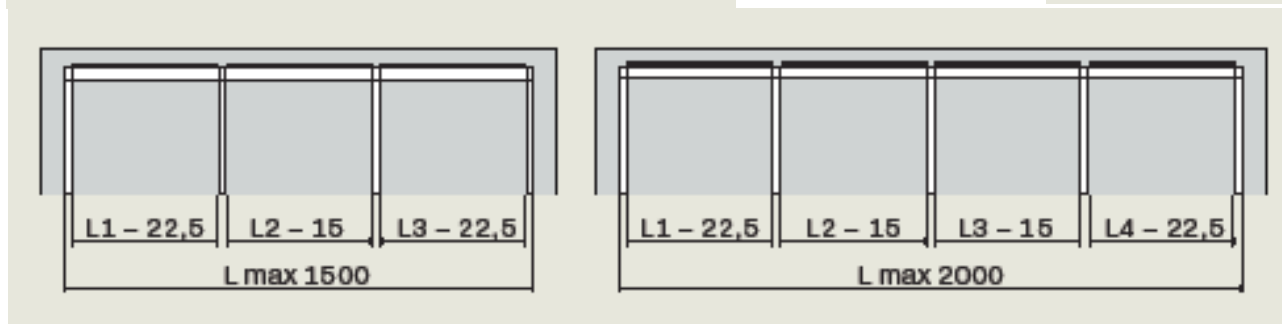
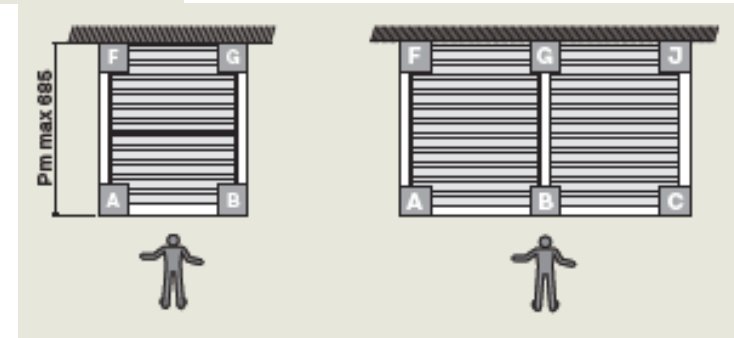
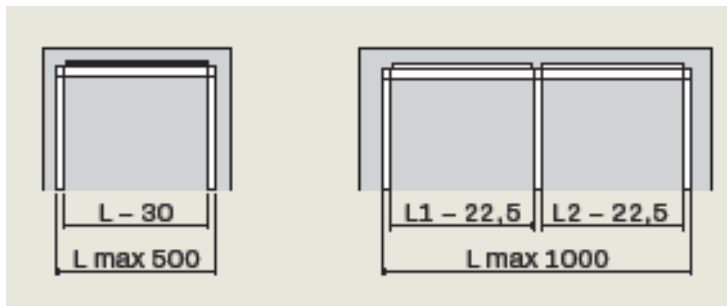
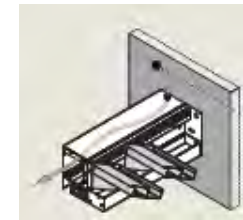
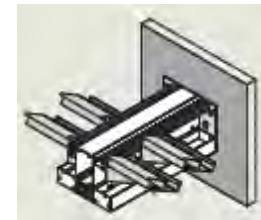
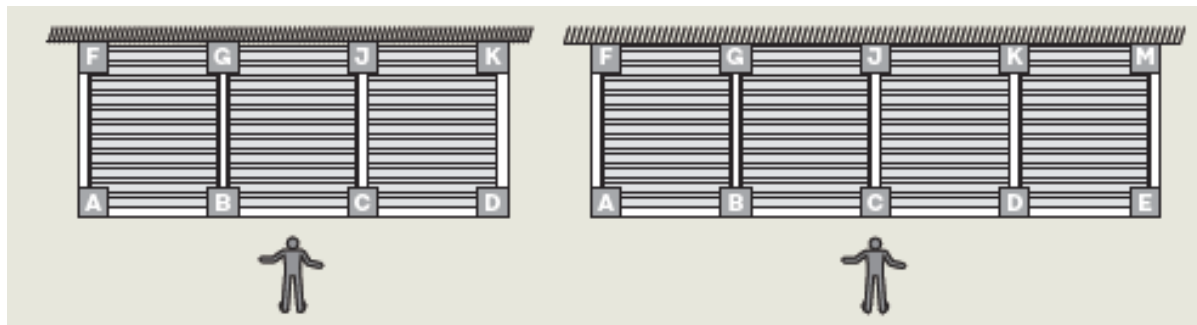
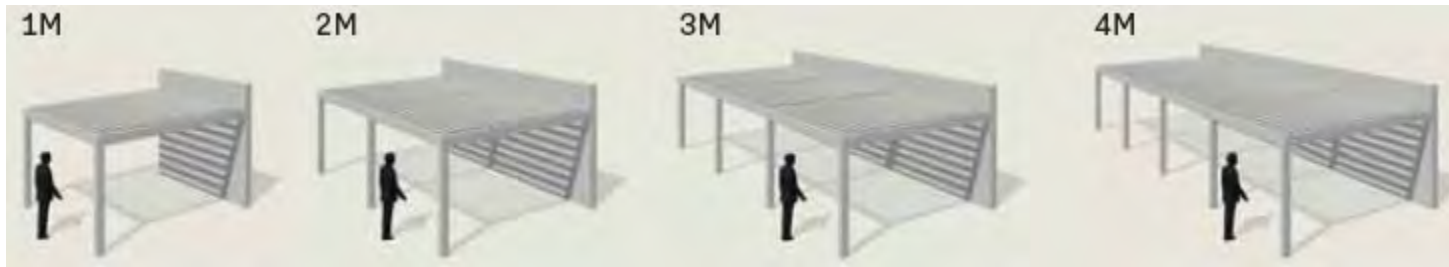


FRONT VIEW



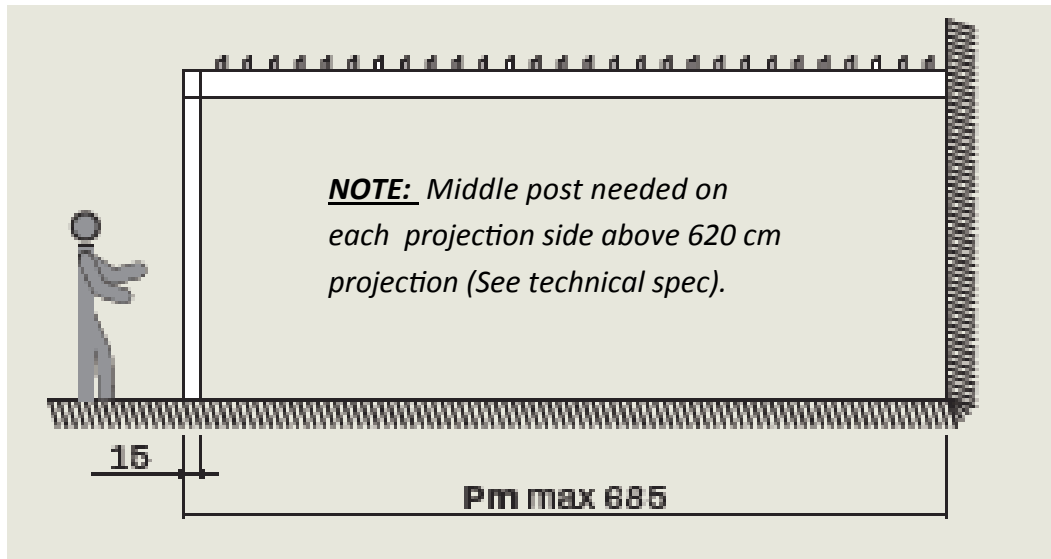
OPERA 02L : Wall Mounted width side wall "L" Louvered system

Max Projection 22' 6" (685 cm)

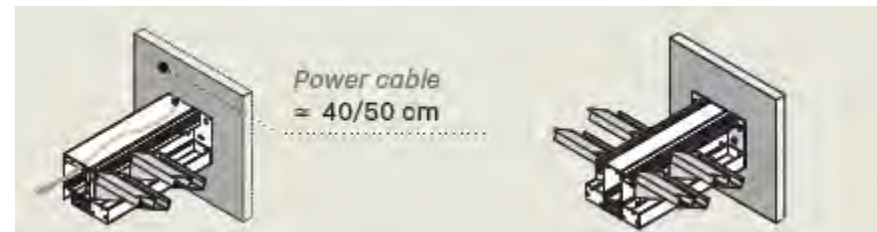
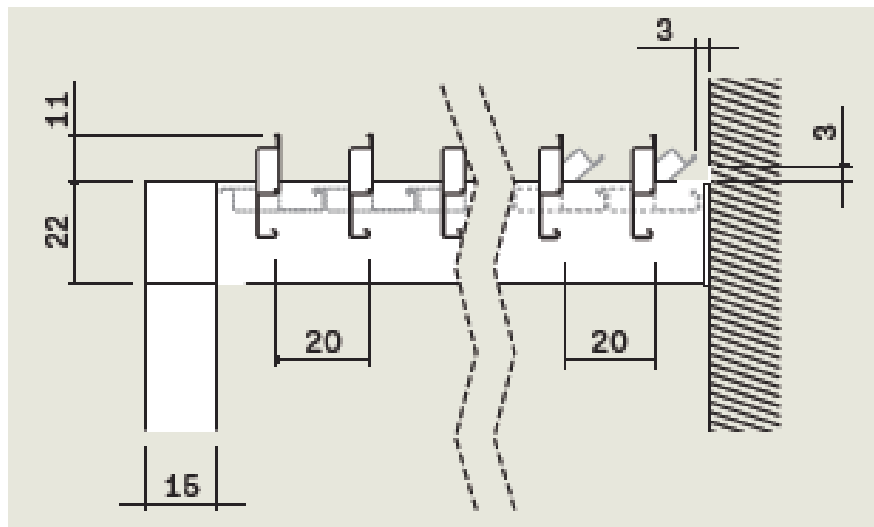
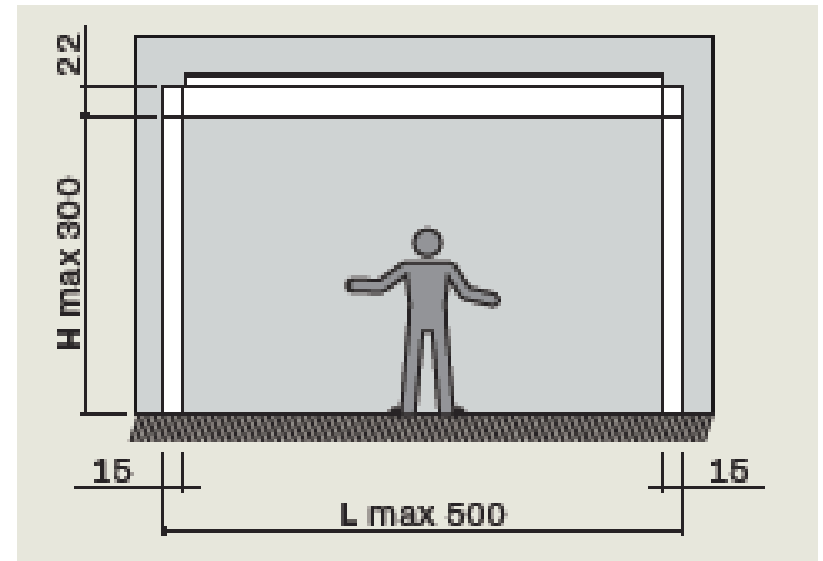


OPERA 02L : Wall Mounted width side wall L con't.

SIDE VIEW



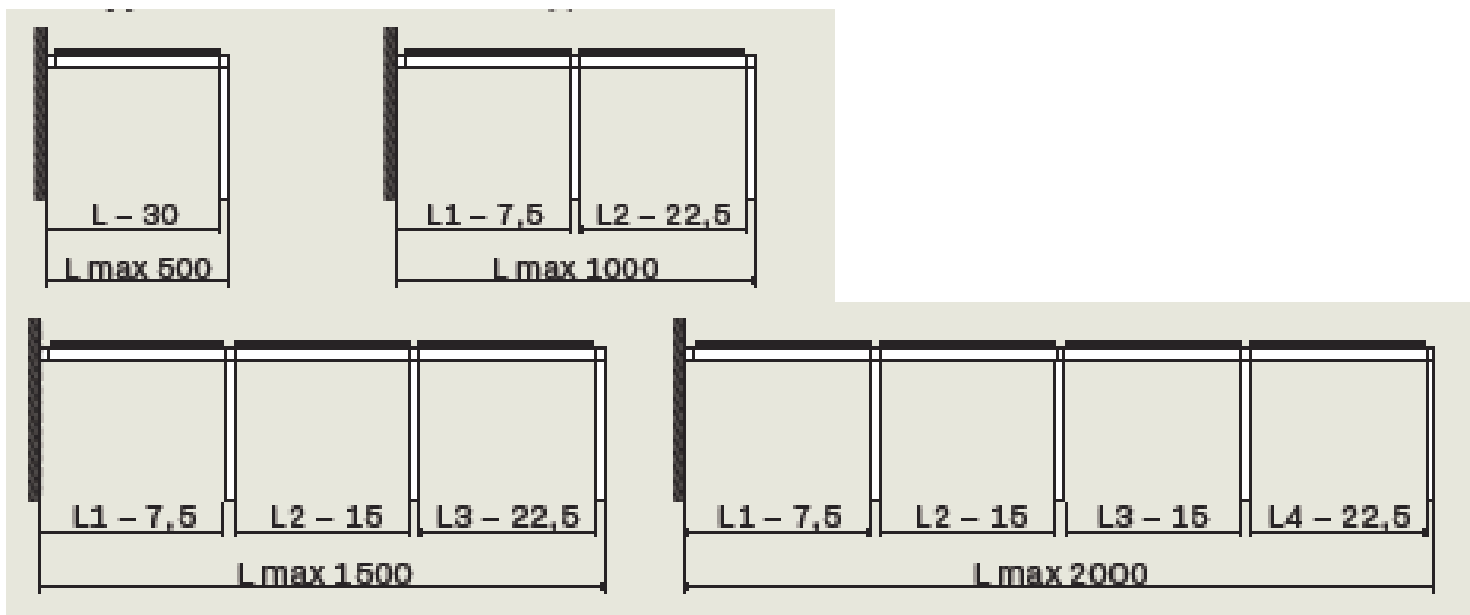
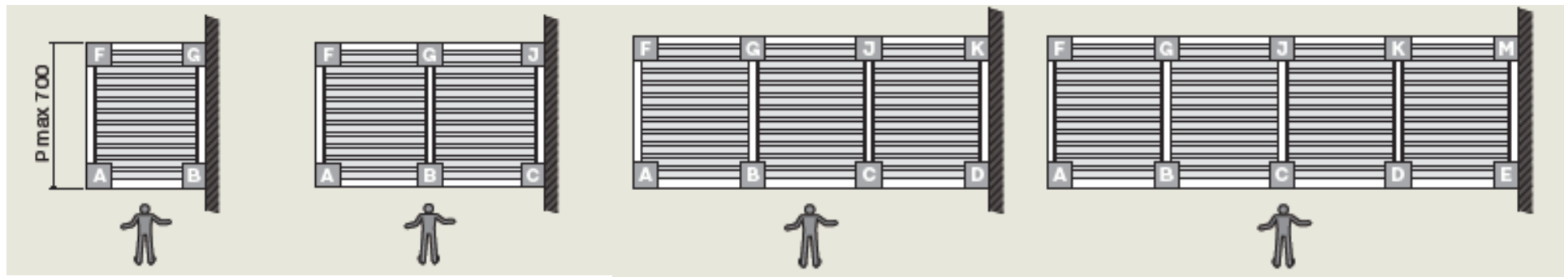
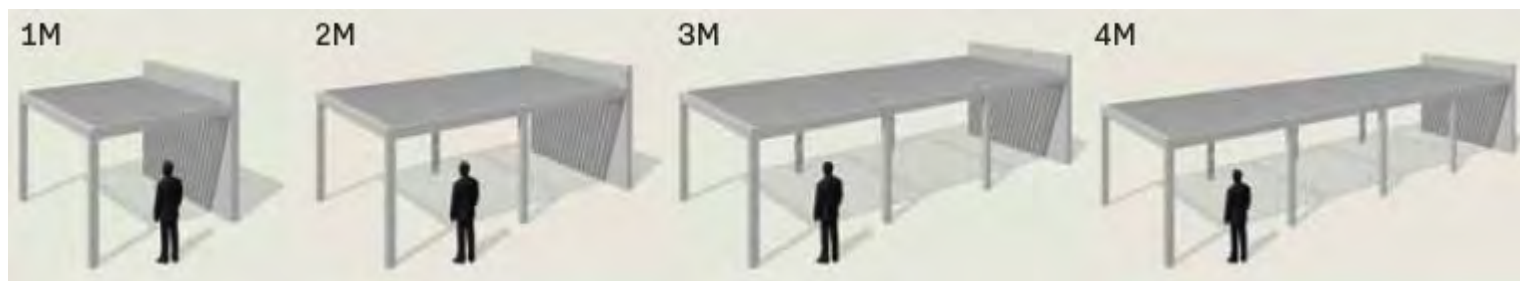
FRONT VIEW



Wall mounting

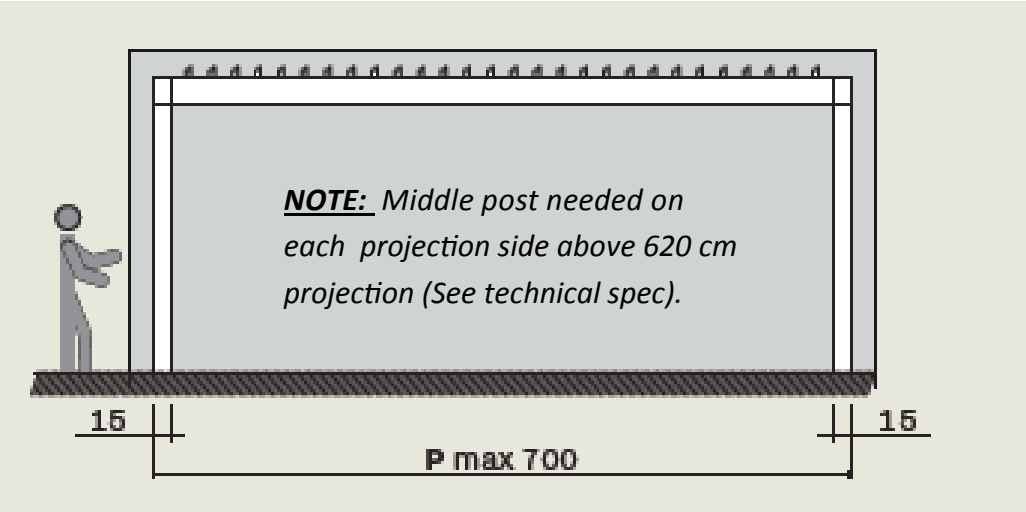
Intermediary Wall mount

OPERA 03L : Wall Mounted projection side wall P

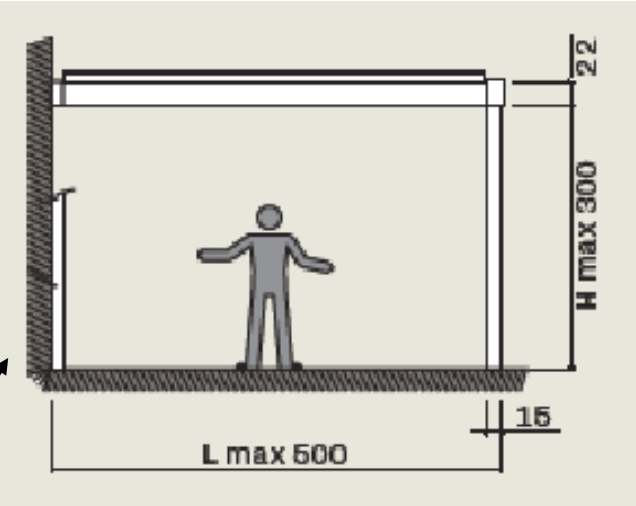


OPERA 03L : Wall Mounted projection side wall P cont.

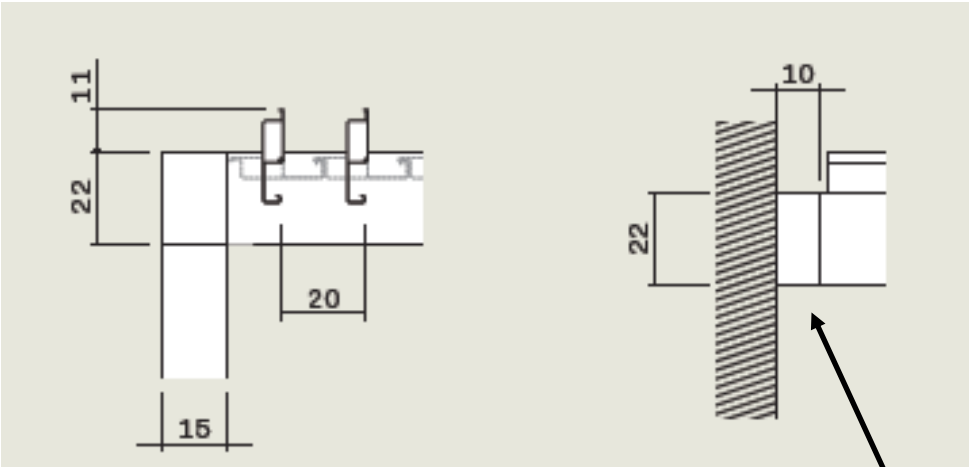
SIDE VIEW



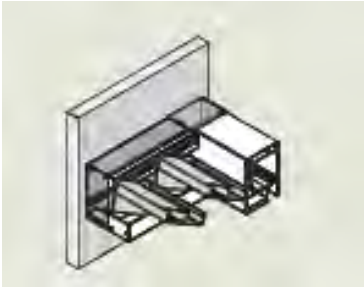
FRONT VIEW



Compensation profile added with RASO screens 10 cm x 15 cm



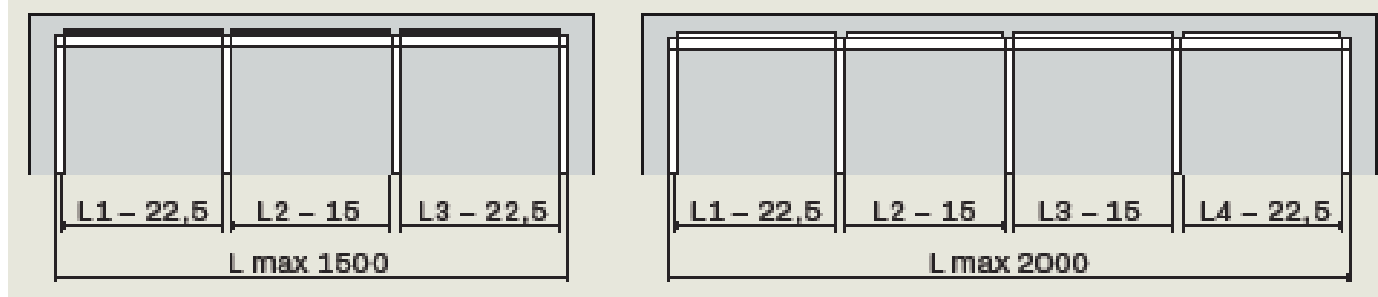
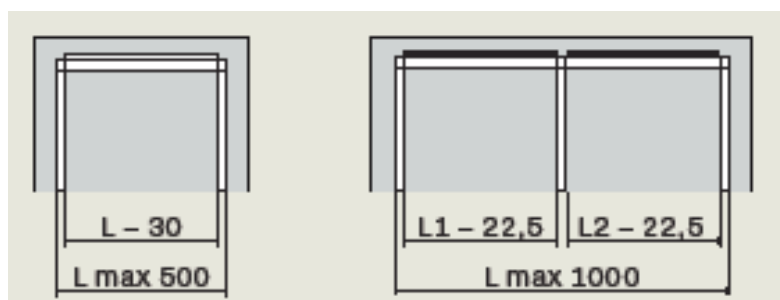
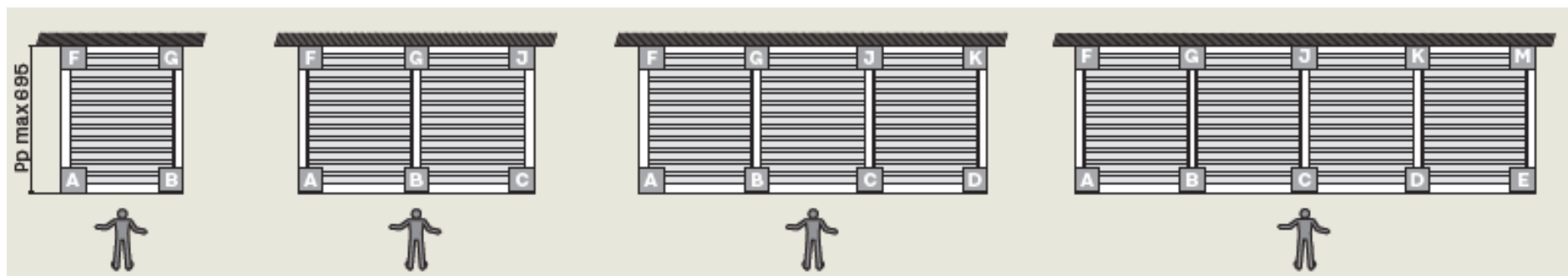
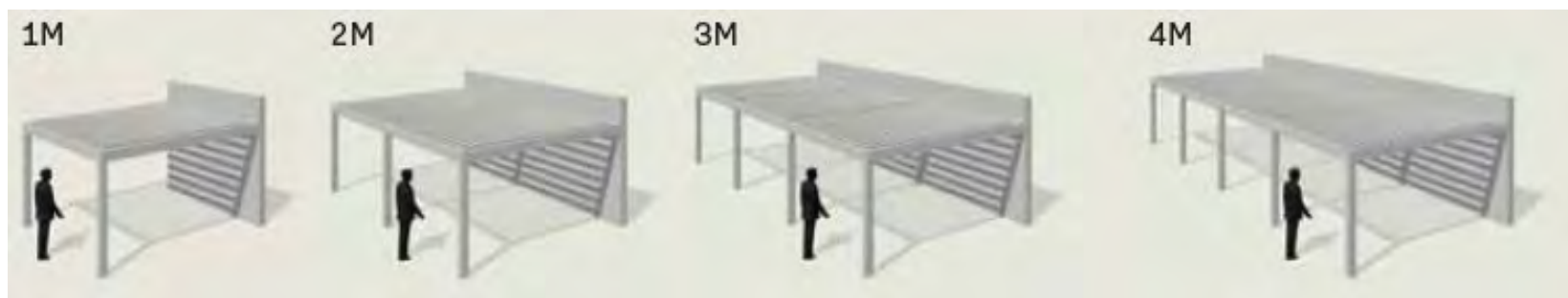
Filler Piece 10 cm



Wall mount

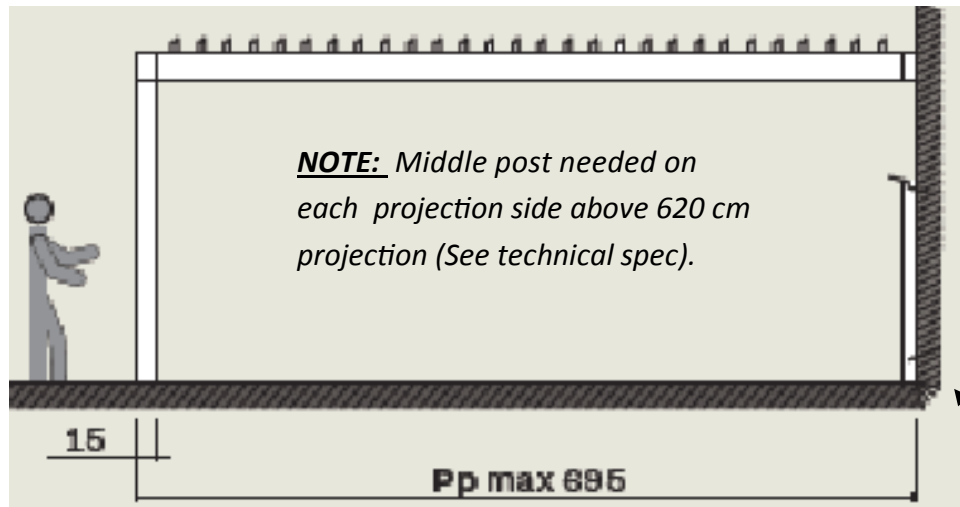
OPERA 04L : Wall Mounted width side wall L with Profile

Max Projection 22' 6" (685 cm)

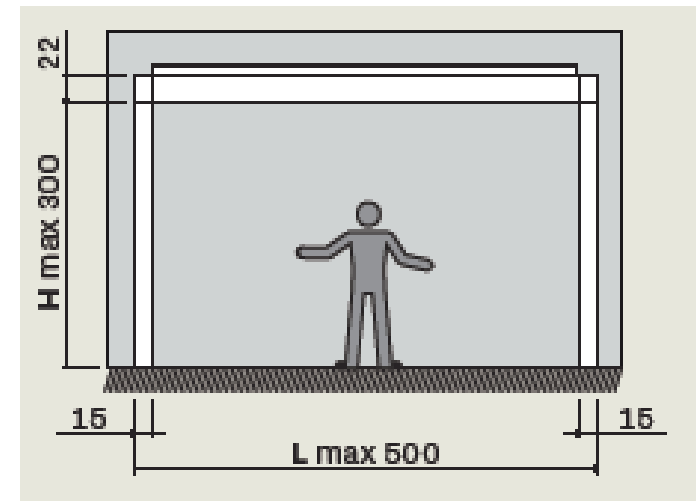


OPERA 04L : Wall Mounted width side wall L with Profile con't.

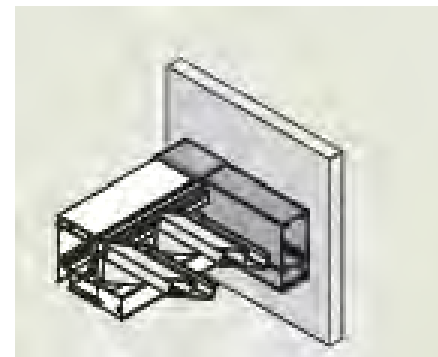
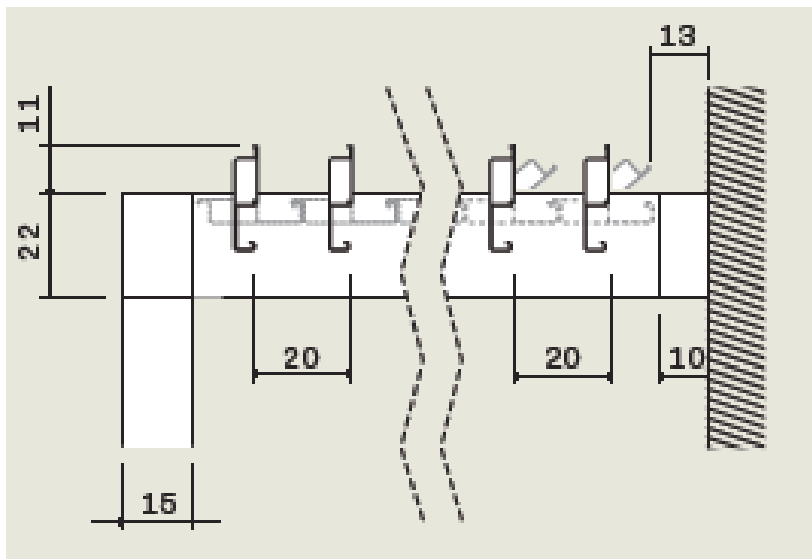
SIDE VIEW



FRONT VIEW

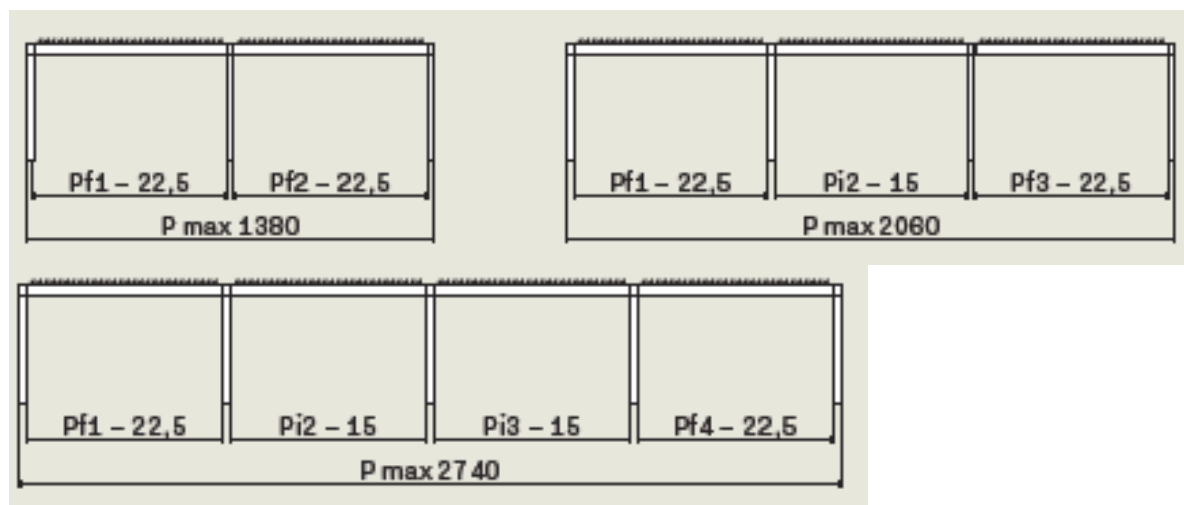
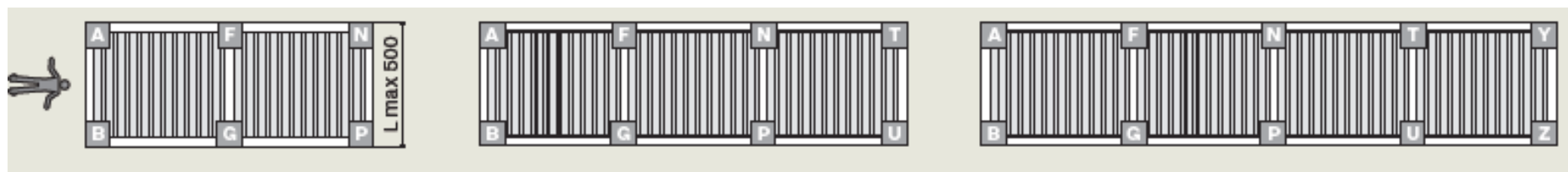


Compensation profile added with RASO screens 10 cm x 15 cm



Wall mount

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

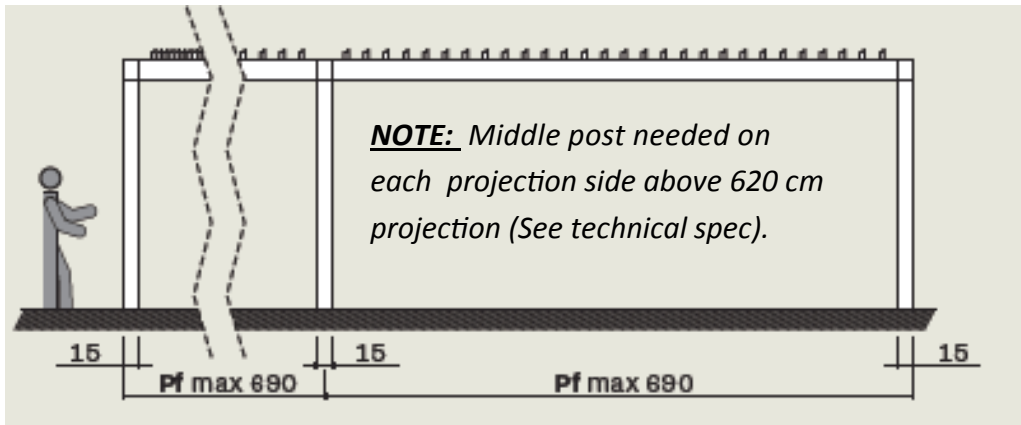


OPERA 01P : Free Standing and if multiple Coupled on width side con't.

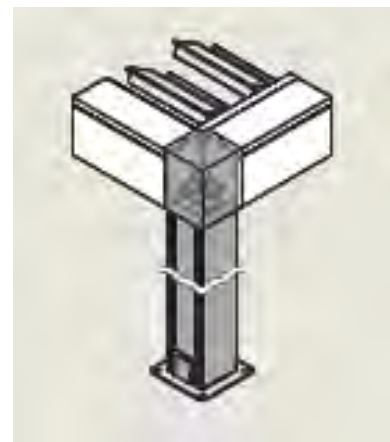
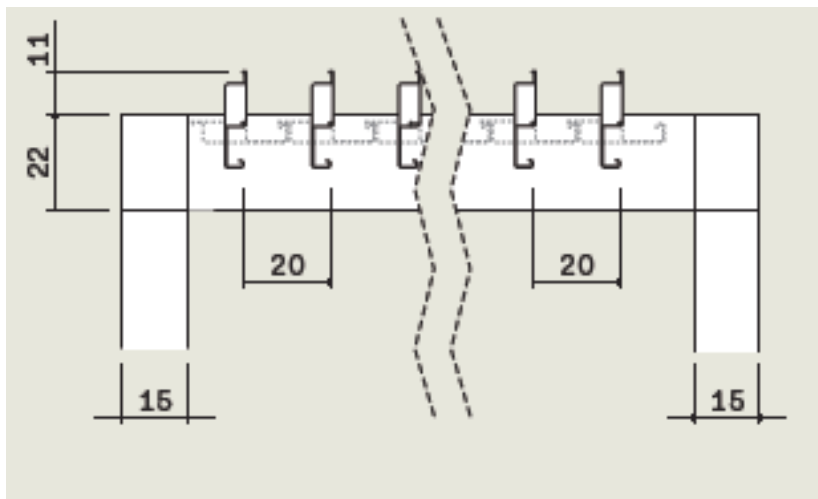
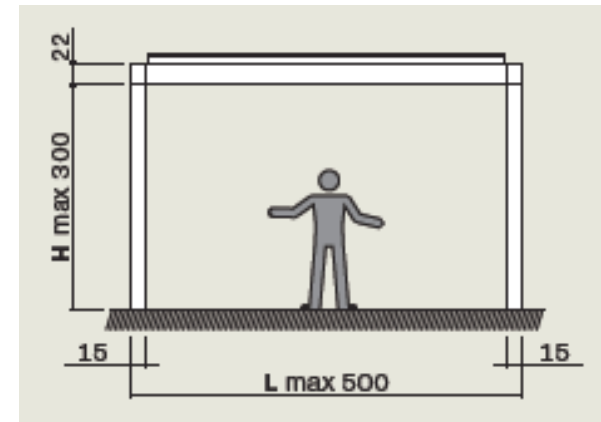
Reduction for Coupling



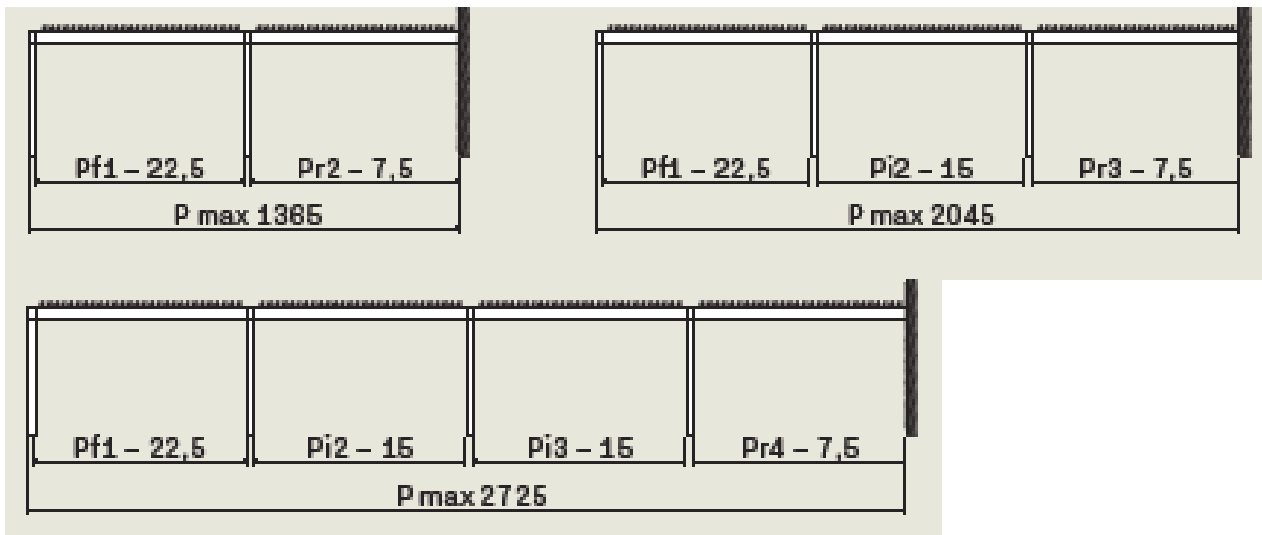
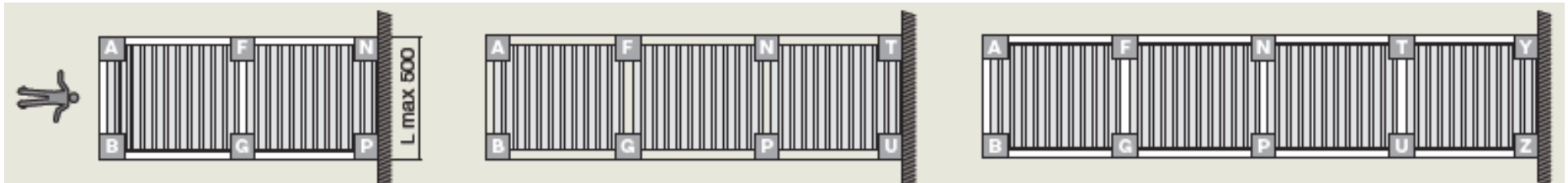
SIDE VIEW



FRONT VIEW

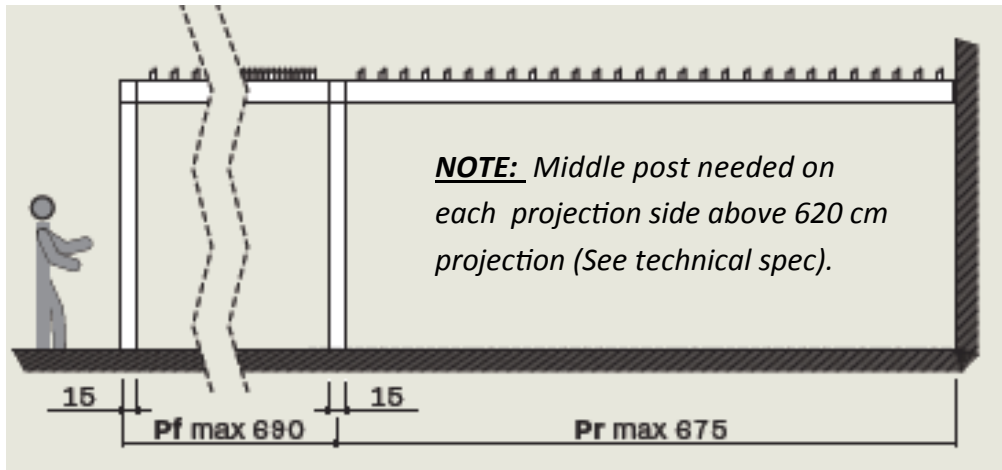


OPERA 02P : Wall Mounted and if Coupled on width side.

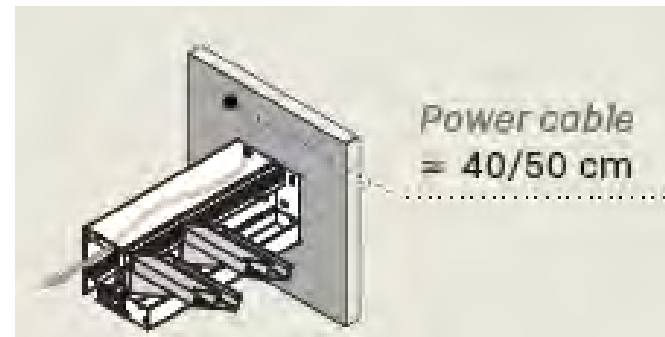
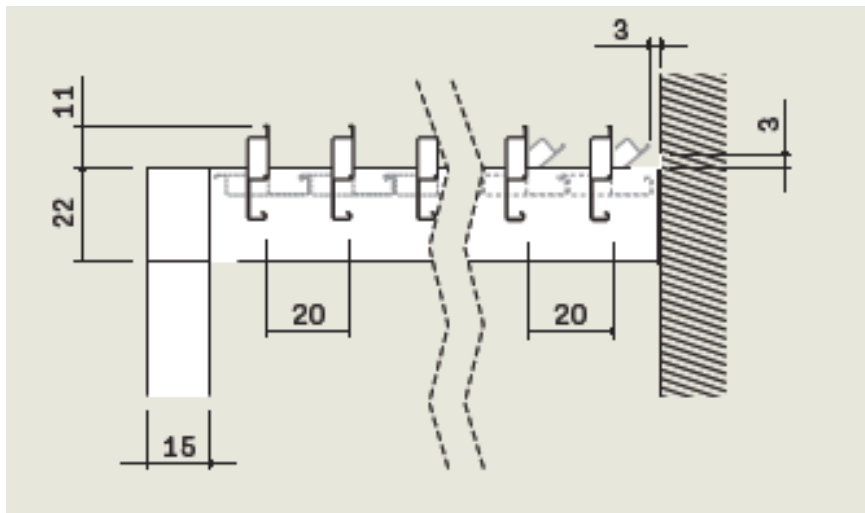
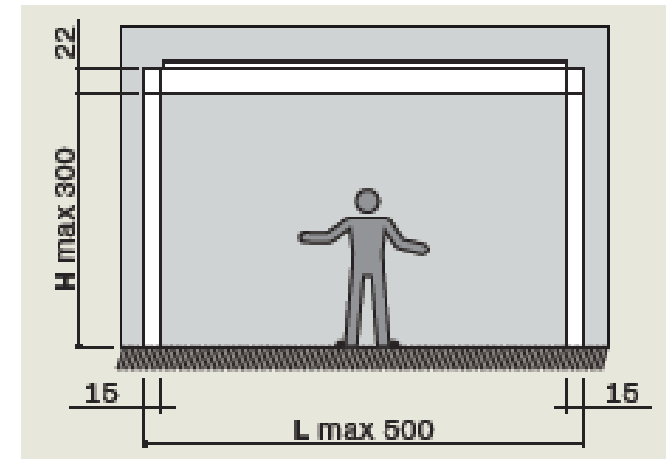


OPERA 02P : Wall Mounted and if multiple Coupled on width side con't.

SIDE VIEW



FRONT VIEW



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

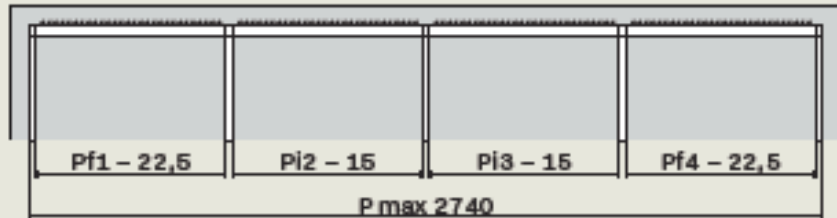
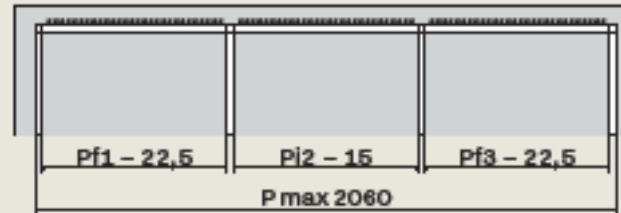
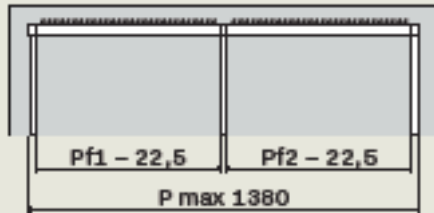
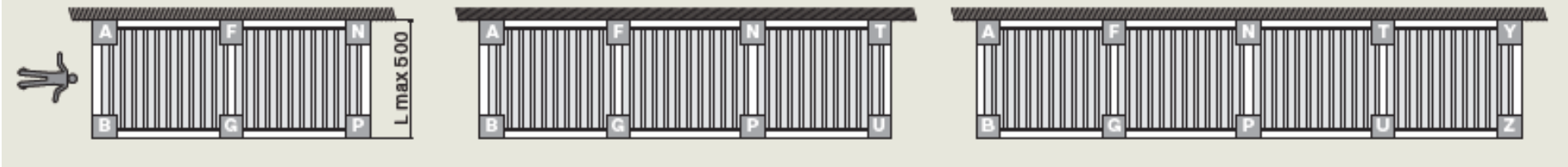
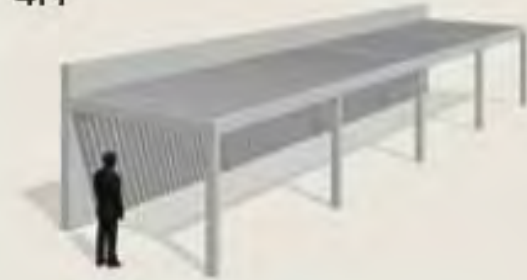
2M



3M

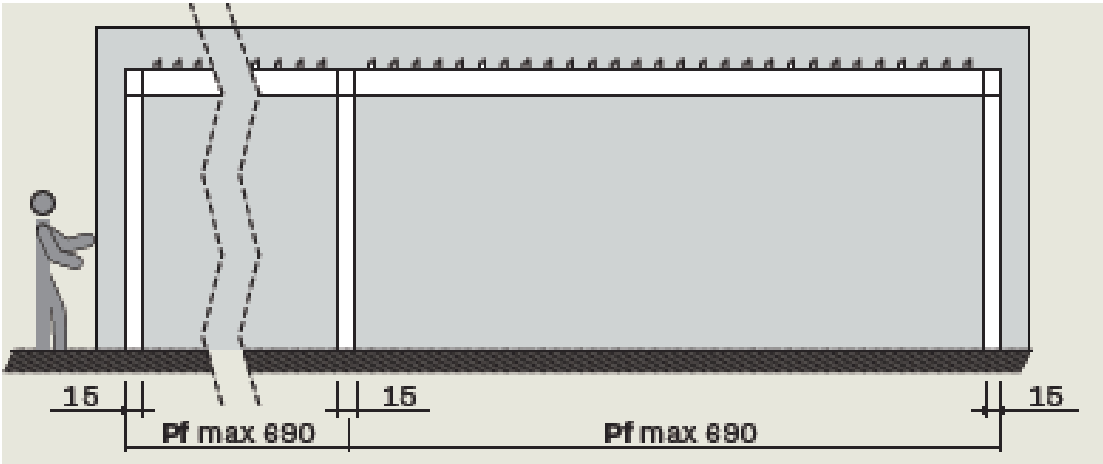


4M

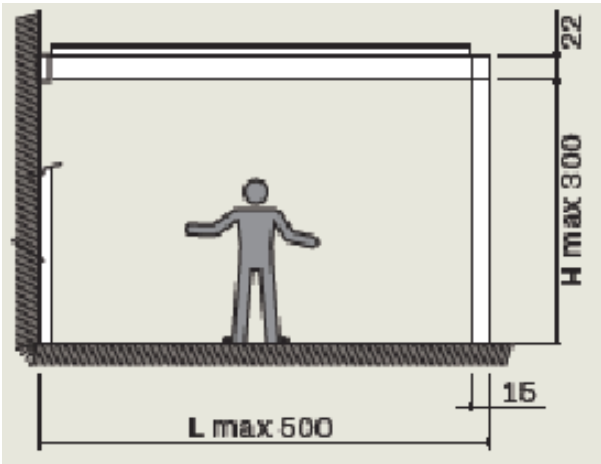


OPERA 03P : Wall Mounted on Projection side cont.

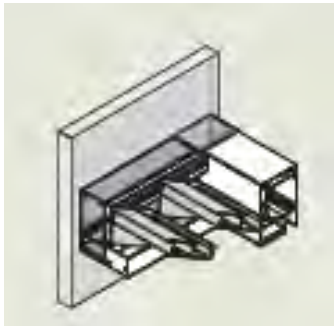
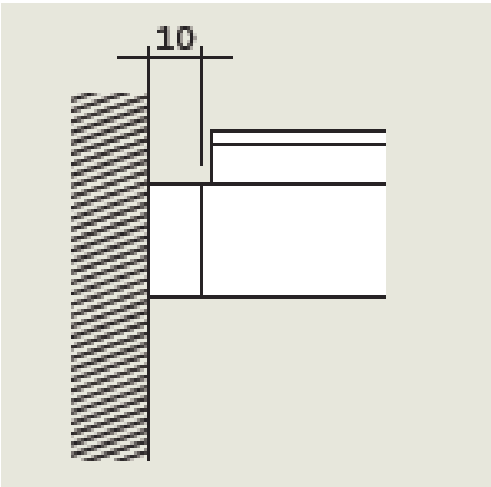
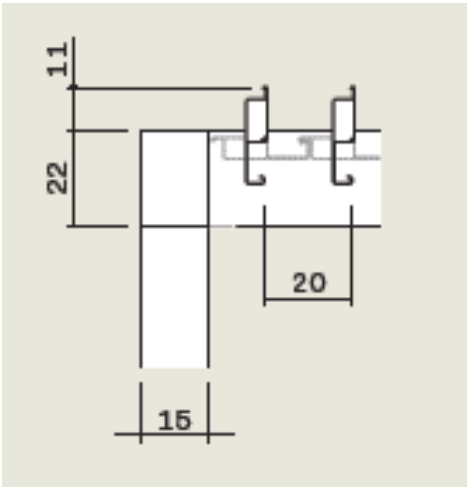
SIDE VIEW



FRONT VIEW

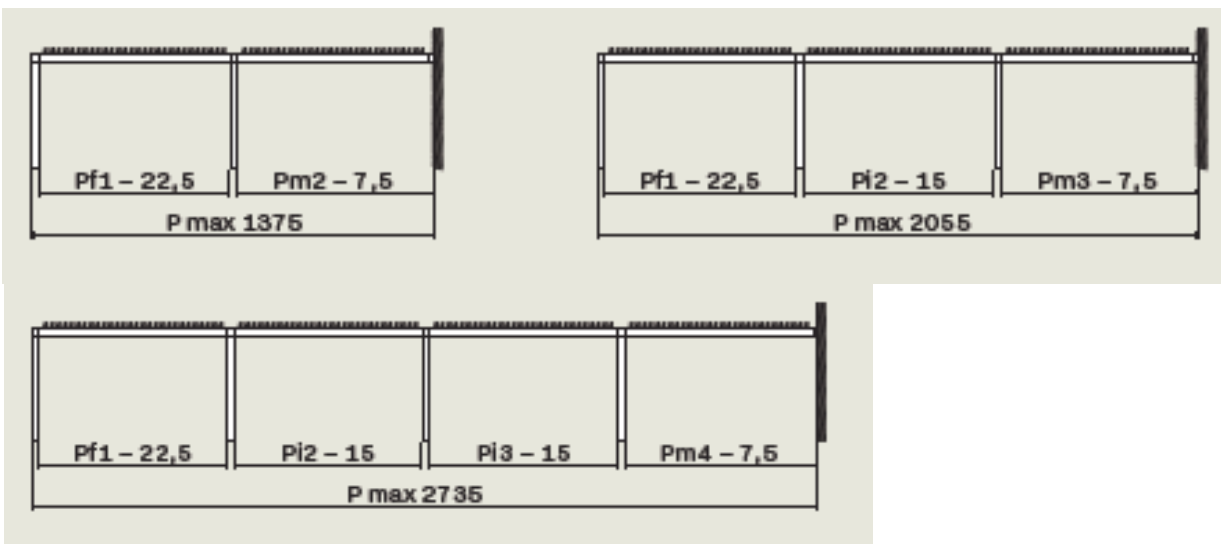
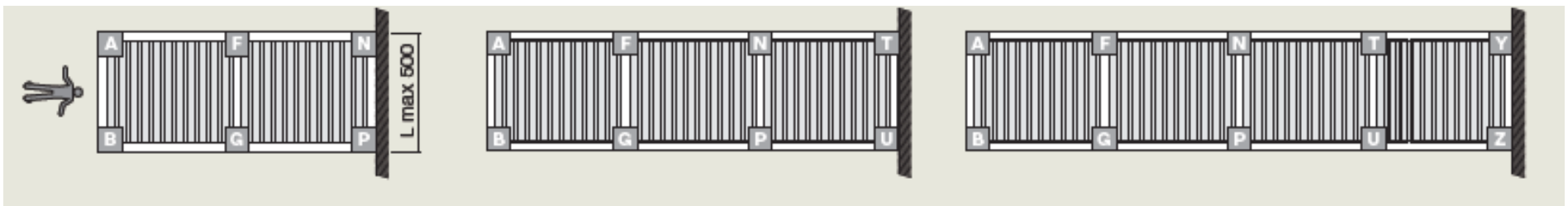


Compensation profile added with RASO screens 10 cm x 15 cm



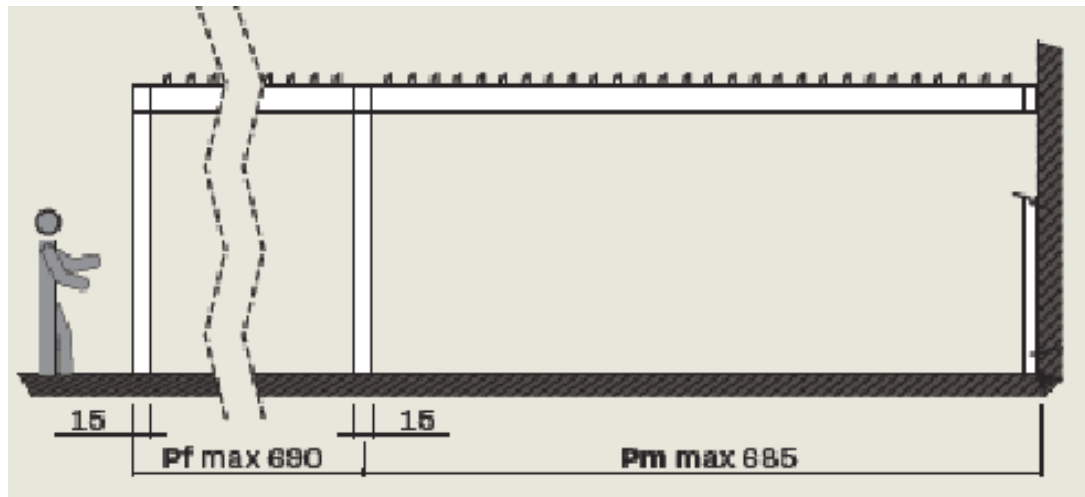
Wall mount

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

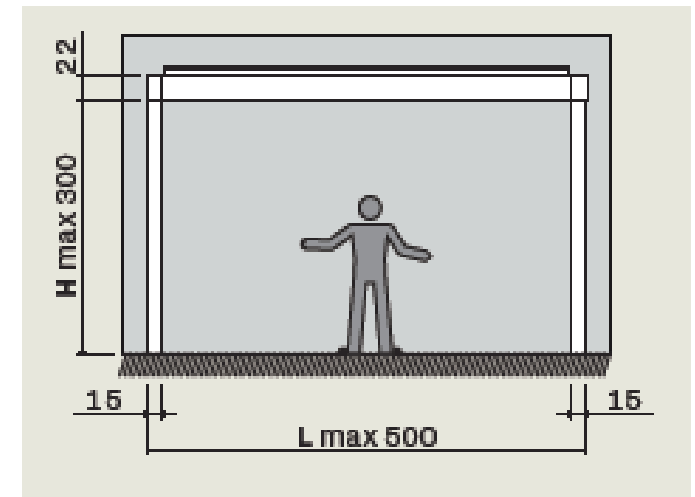


OPERA 04P : Wall Mounted on Width side “L” con’t.

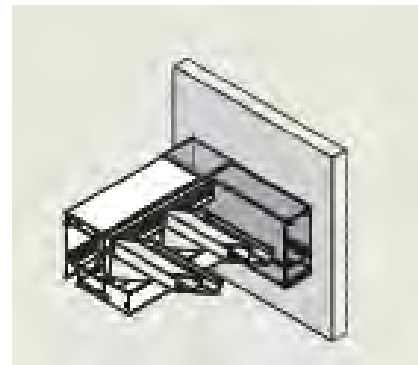
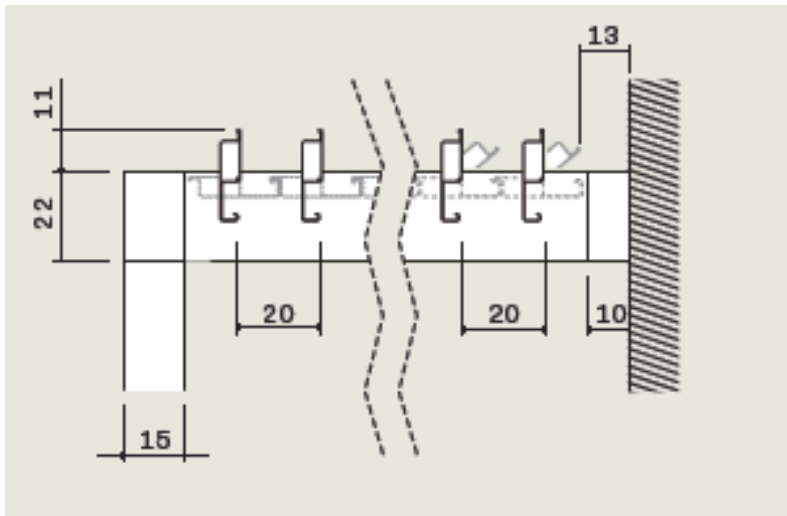
SIDE VIEW



FRONT VIEW

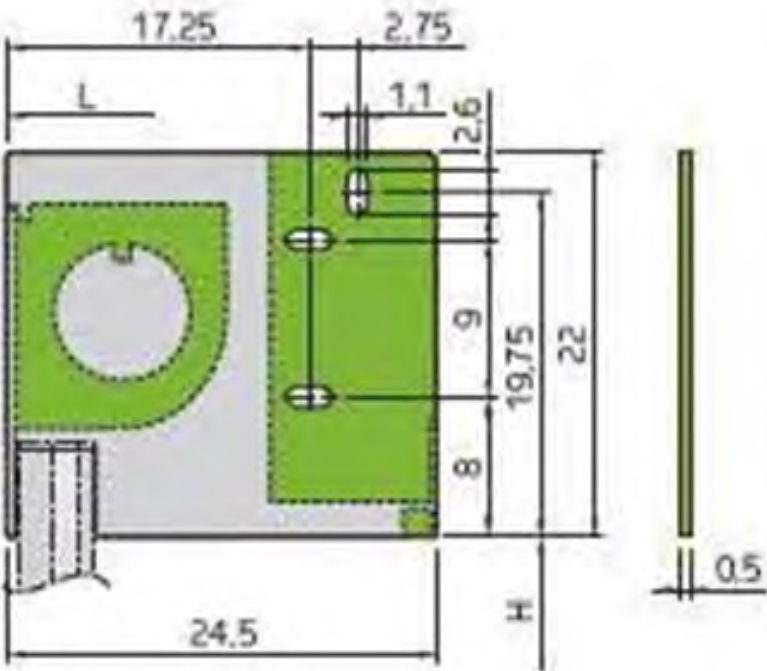
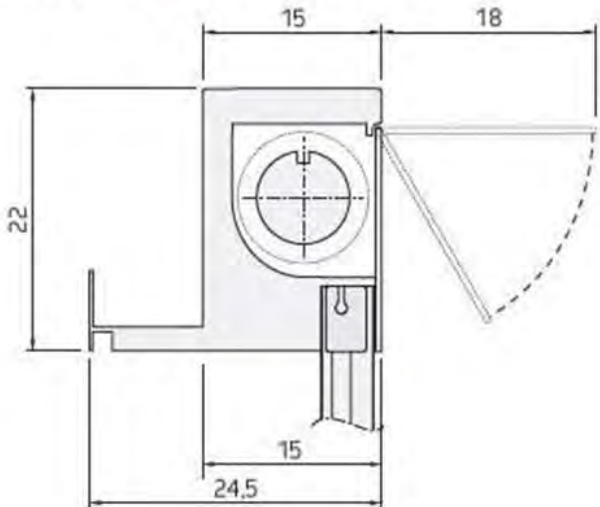


Compensation profile added with RASO screens 10 cm x 15 cm

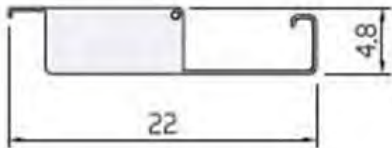


OPERA technical details and dimensions.

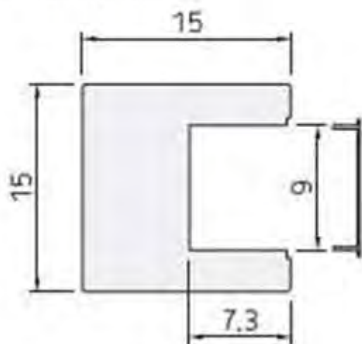
Supporting profile with RASO box



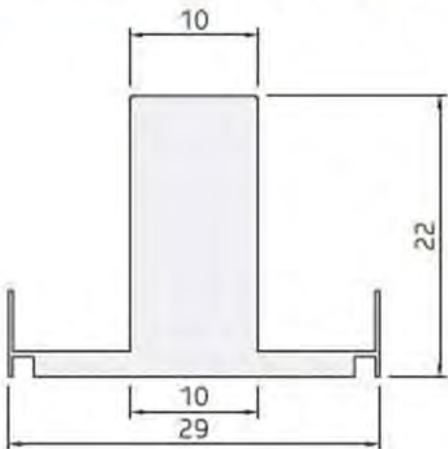
Blade profile



Post profile

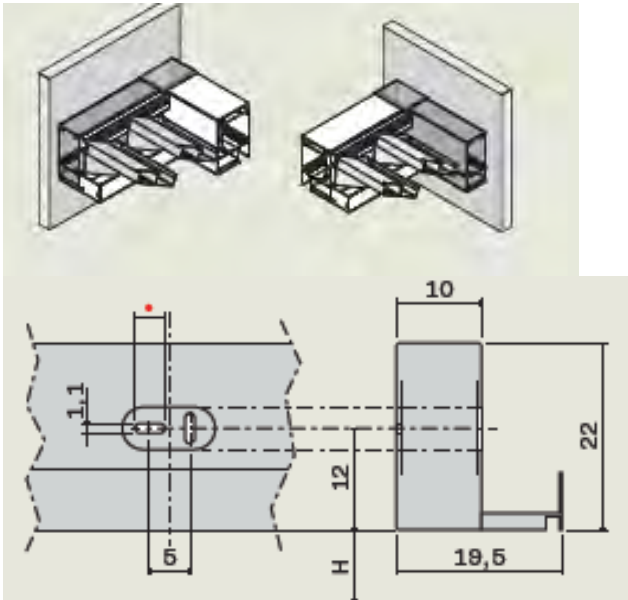
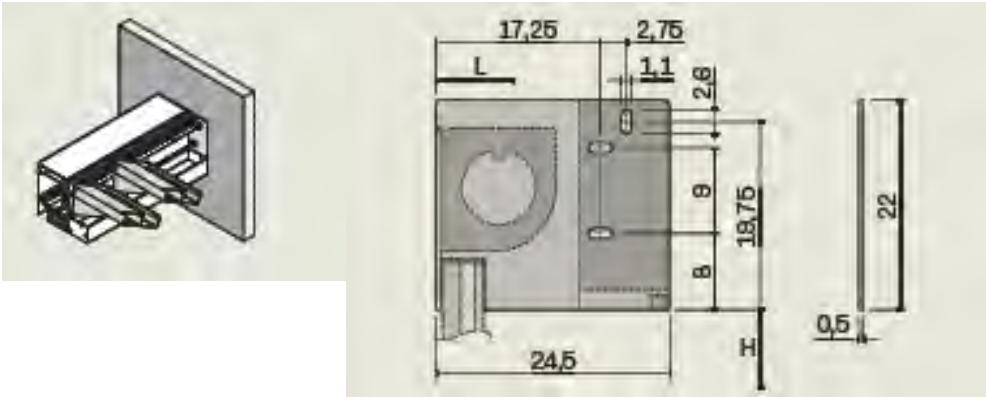


Intermediate supporting profile

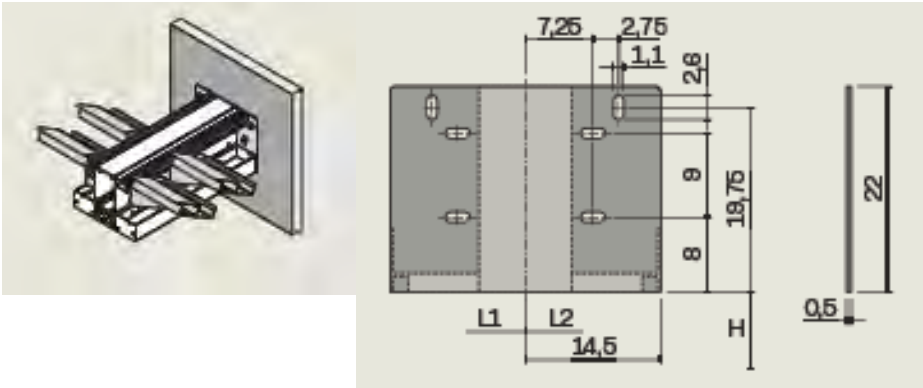


OPERA technical details and dimensions con't.

Wall Mounting bracket mounting at sides

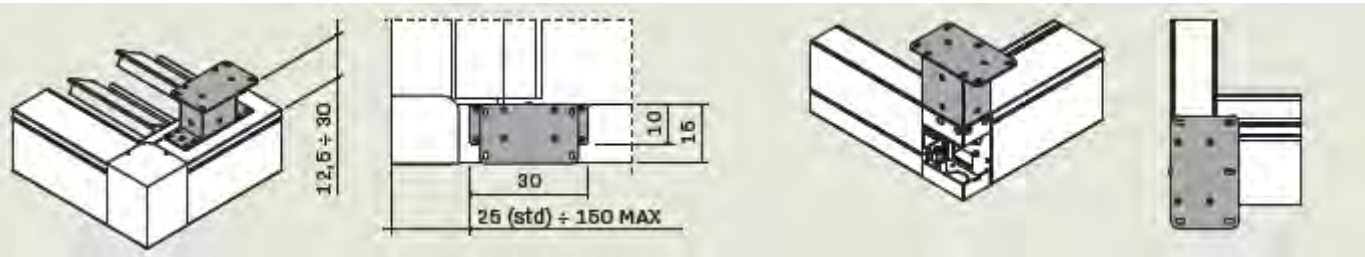


Wall Mounting brackets at Intermediary



Wall Mounting through the Profile

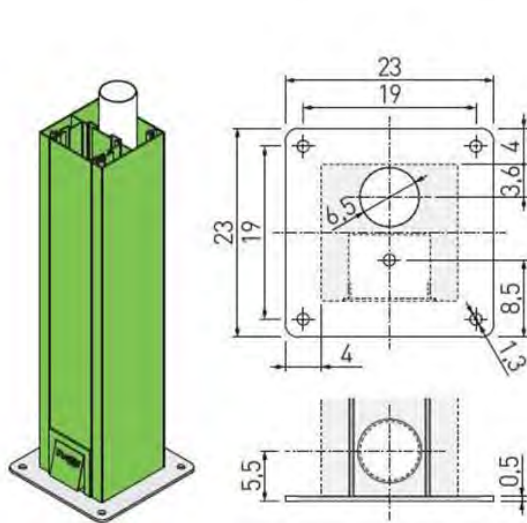
Optional Ceiling Mount Brackets (System height from 12.5 cm to 30 cm)



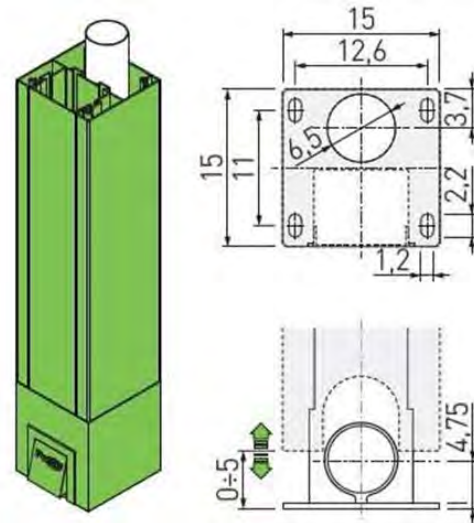
Type A uneven corner

Type B at corner

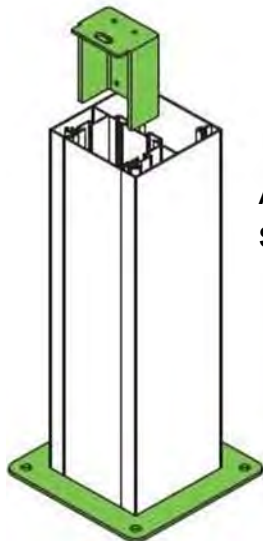
OPERA technical details and dimensions con't.



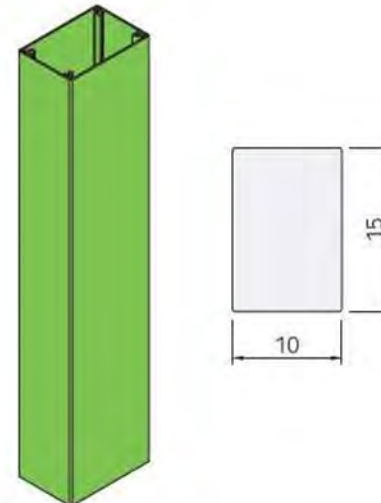
Standard post feet. Standard height is 90" (230 cm). Above 230 cm is an upcharge. Maximum available Opera post height is 118" (300 cm).



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.



Additional posts with standard feet.



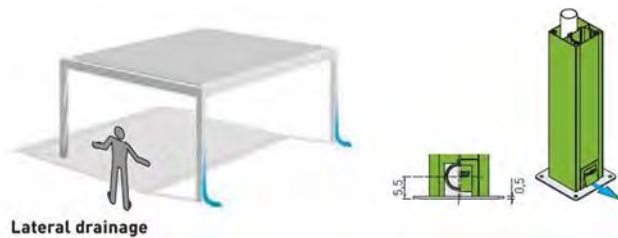
Optional wall posts if ordering Raso screens on 03 wall mounted configuration.

OPERA water drainage details.

Opera with standard ground bracket



Opera with telescopic ground bracket

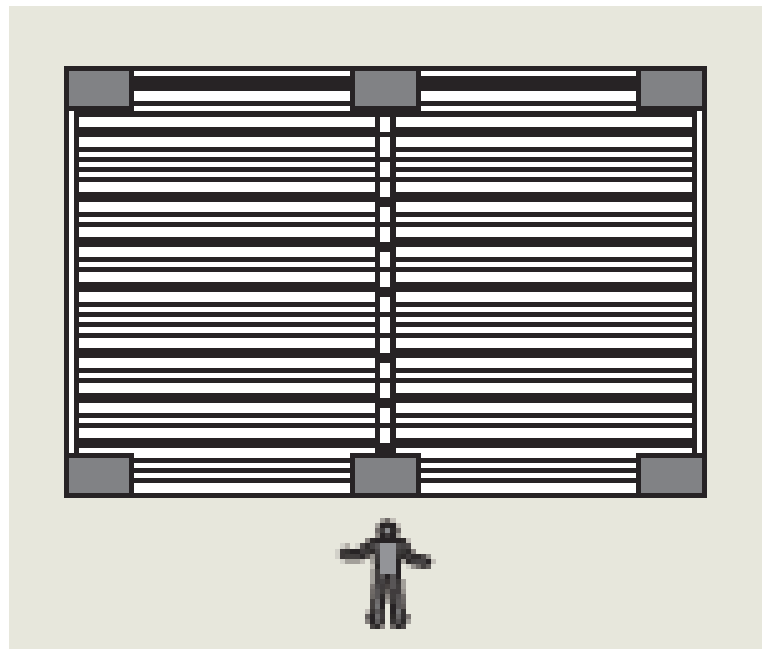
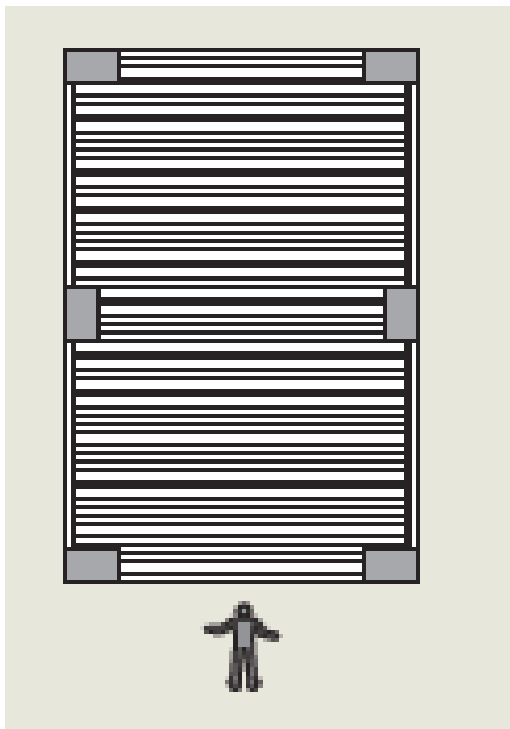


Scupper water discharge / flap is only available with standard post feet and can not be painted.



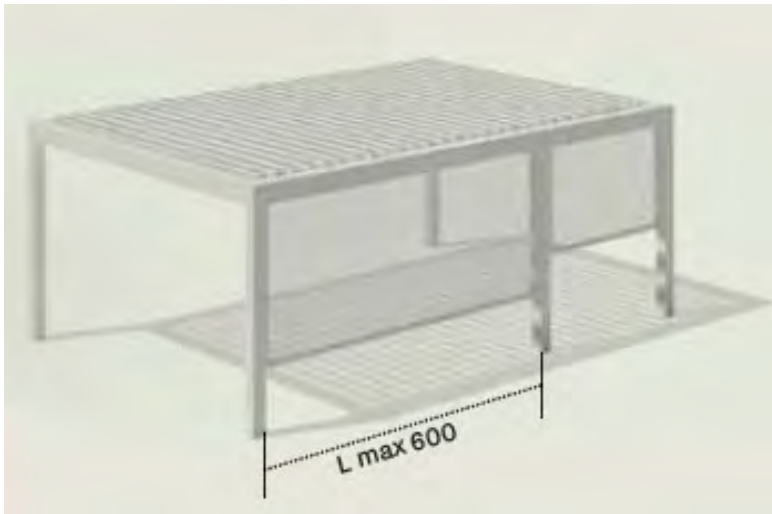
Note: you just make bottom of the post even with the decking or patio surface (Do not add pavers around perimeter).

VISION Post Location and Orientation Diagram.



OPERA & VISION Options:

RASO ROLL DOWN ZIPPER SCREENS For OPERA only



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 model only.

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)

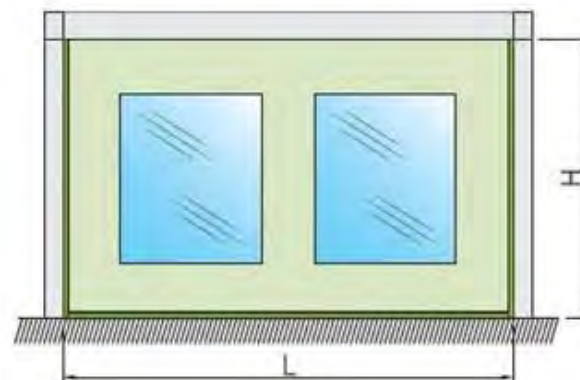
Ferrari 502/602 with windows: 13' wide (4 m)

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 NOMO, you still



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.

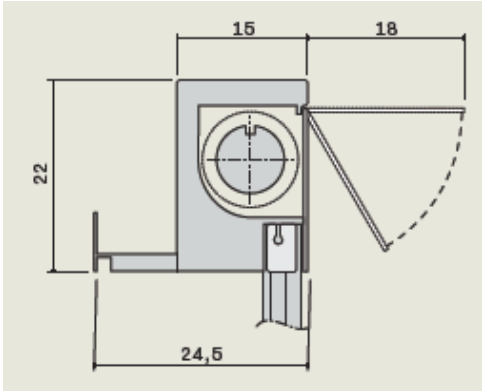
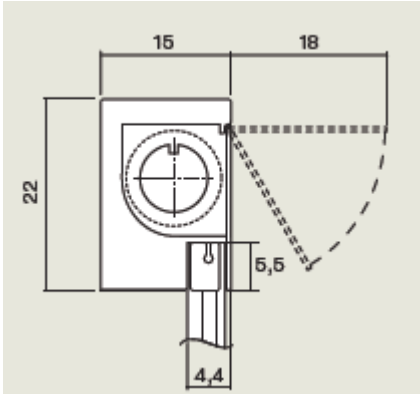
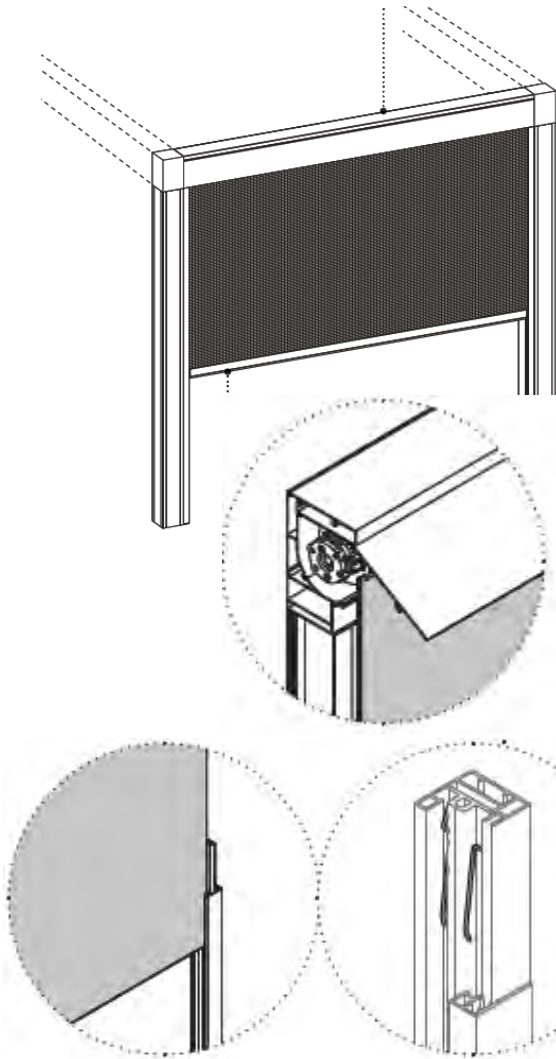
Raso screens with windows



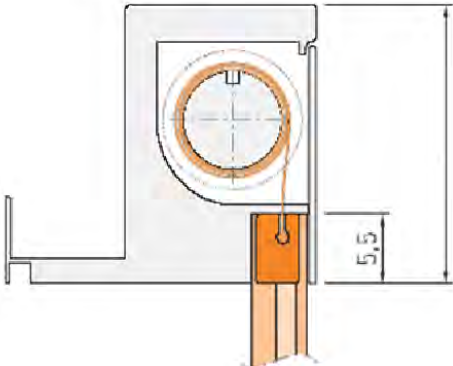
Minimum border width around screen perimeter must be at least 25 cm (10") when using Ferrari with windows (See illustration above)

Raso zipper screens with mesh fabric

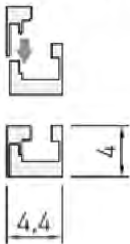
RASO Screens con't



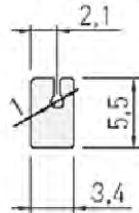
supporting profile with built-in Raso



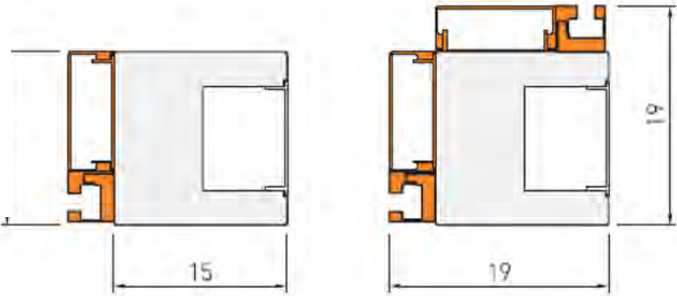
Zip guide profile



Front profile



Post profile + Raso guide + compensator



Optional Gasket at bottom of hem bar.

NOMO posts with Raso Track and compensation profile added

RASO Screens can't



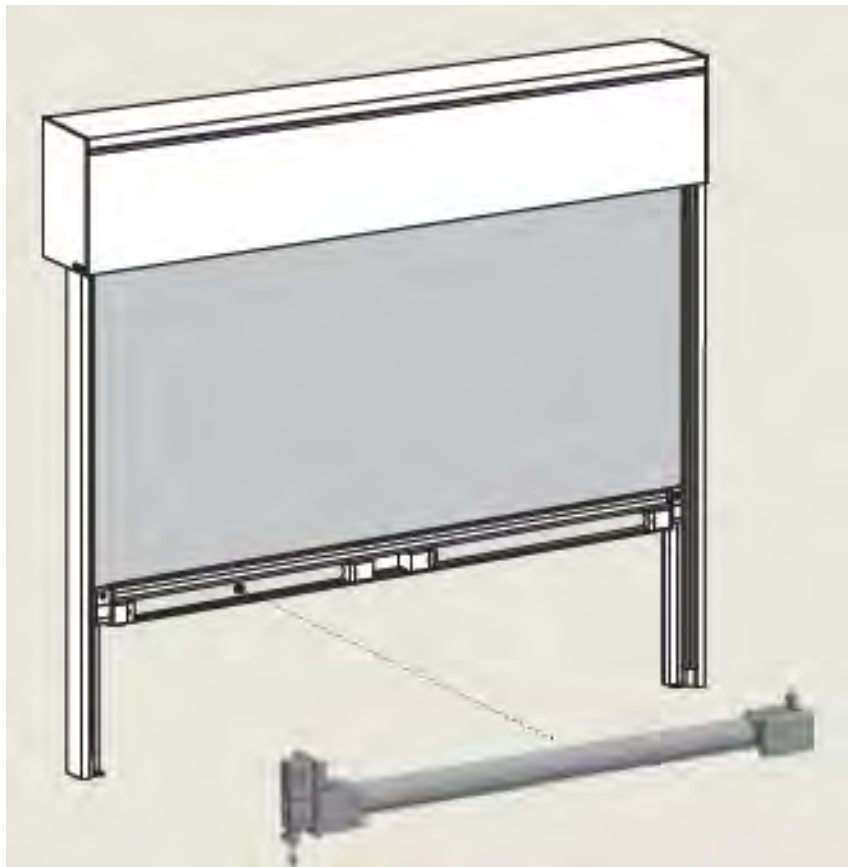
Raso

Minimum width:

200 cm / 79 "

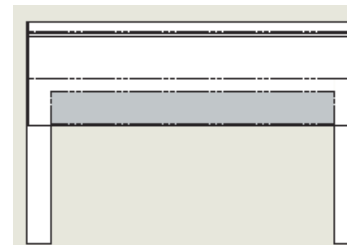
Maximum Height:

300 cm / 120"

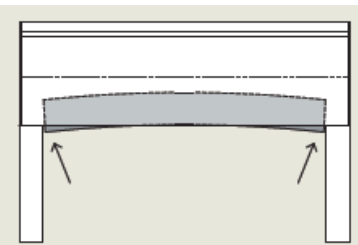


Power Spring system is a “NEW” option that is available for Raso screens allowing for constant tension on the fabric. The (PSS) system utilizes gas springs which acts as shock absorbers and keeps constant tension on the fabric even in partially lowered position.

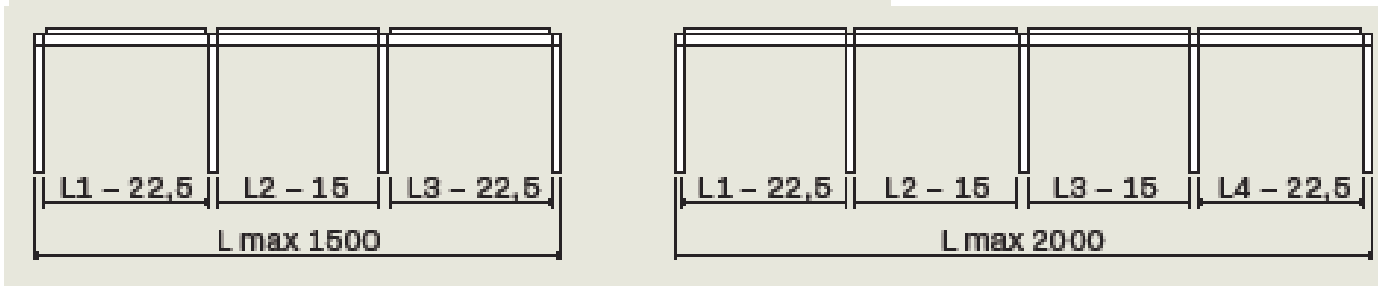
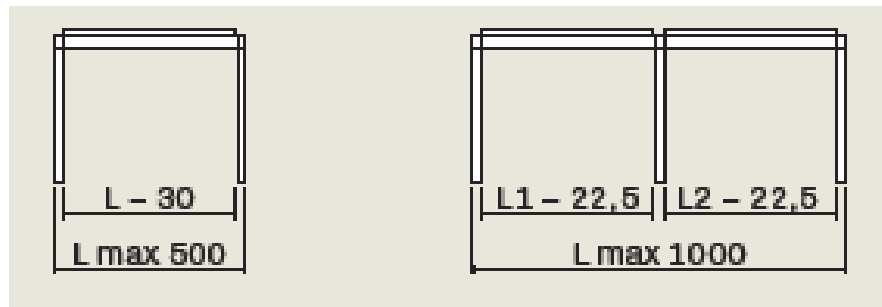
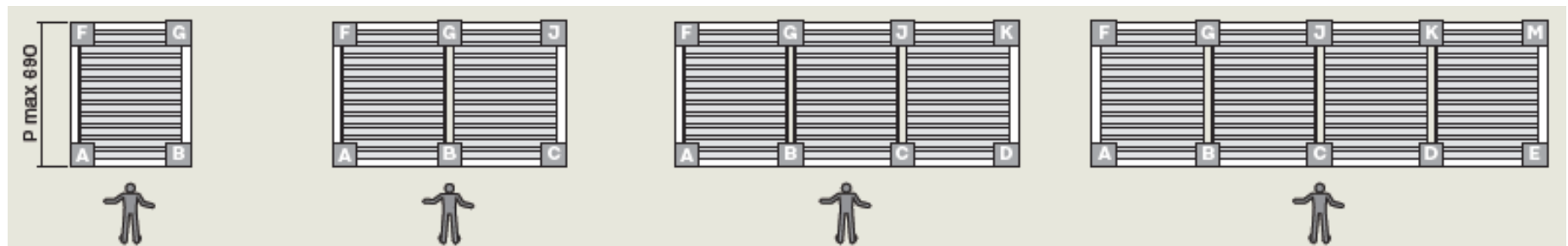
YES



NO

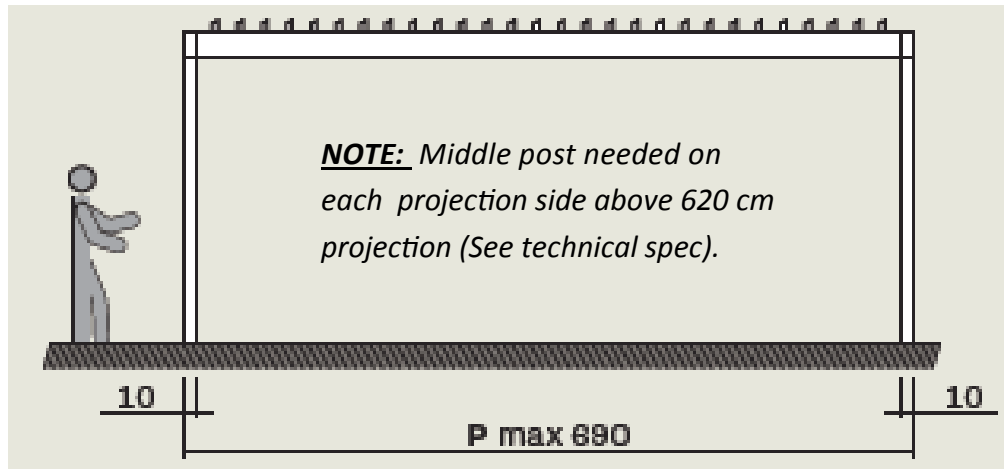


VISION 01L : Free standing and if multiple Coupled on projection side.

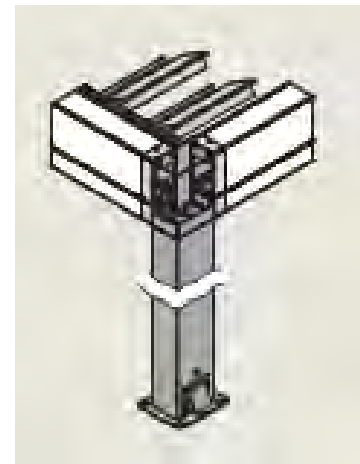
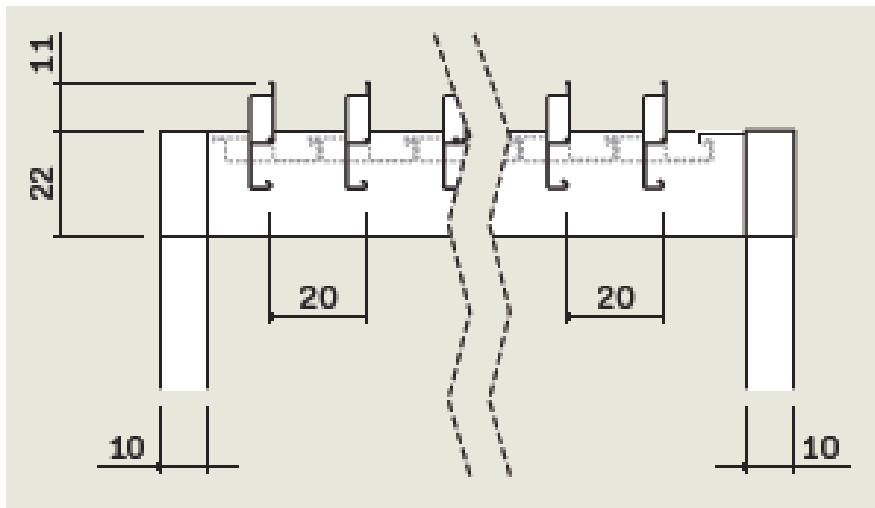
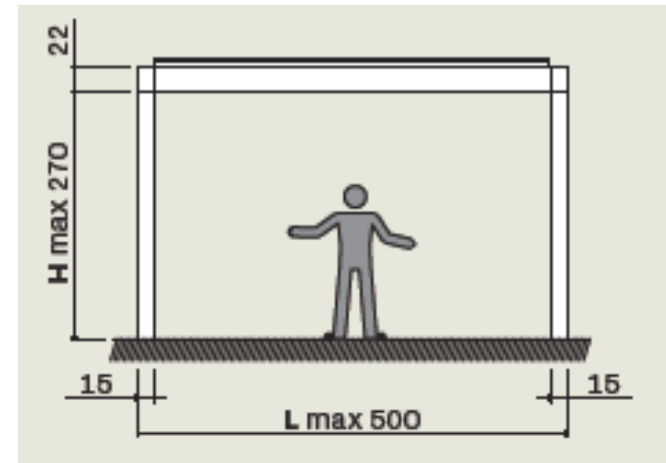


01L : Free standing and if multiple Coupled on projection side con't.

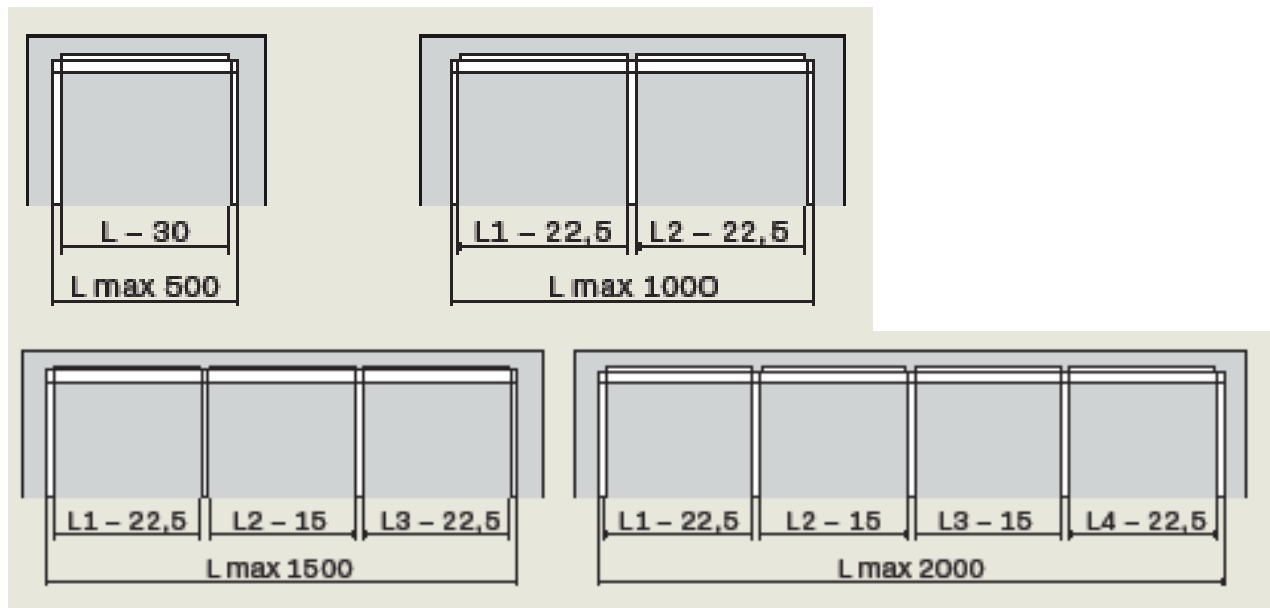
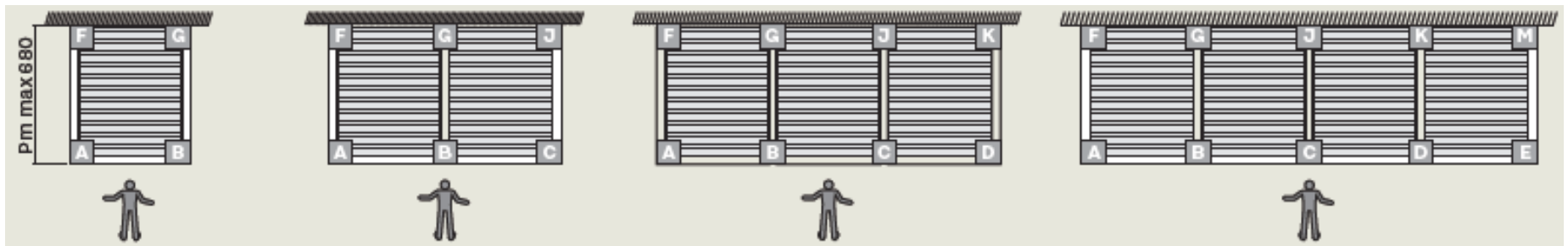
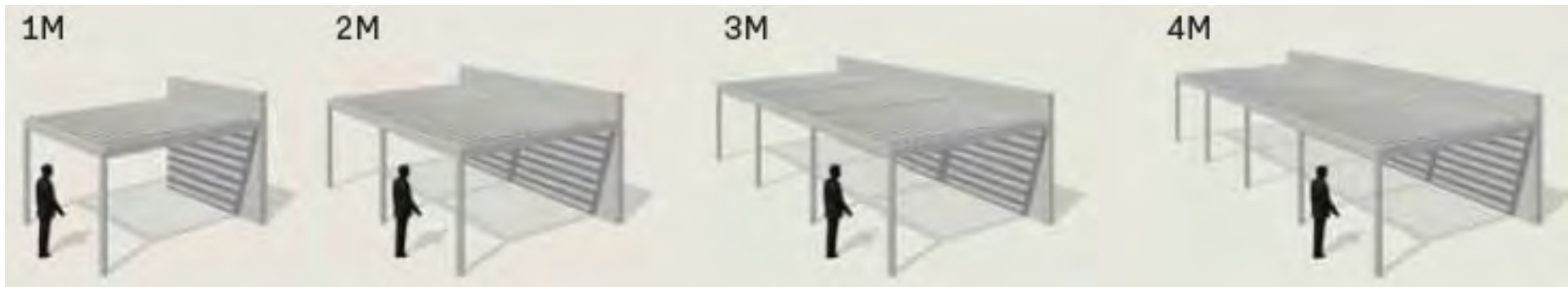
SIDE VIEW



FRONT VIEW

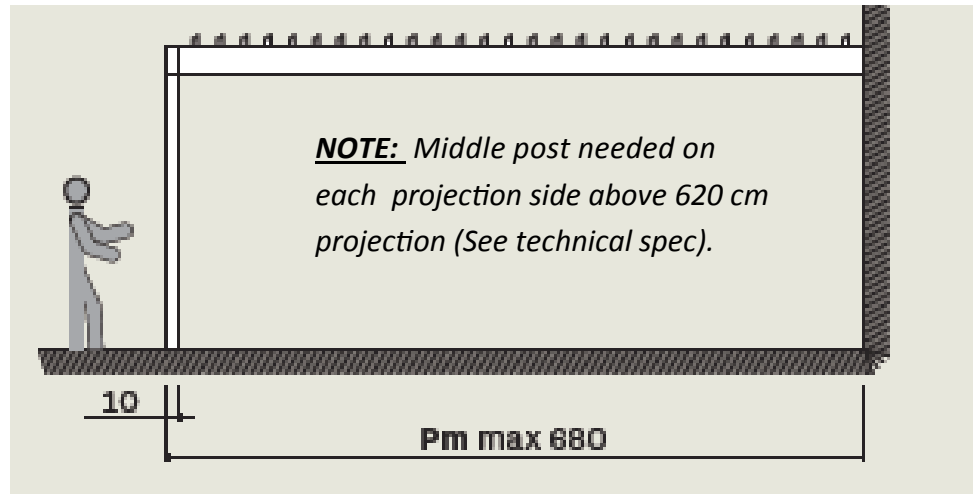


VISION 02L: Wall Mounted on width side Coupled on projection side.

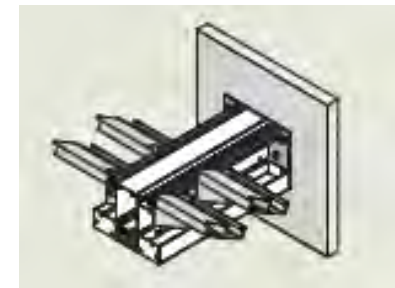
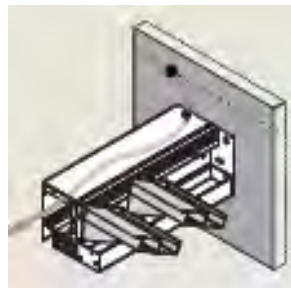
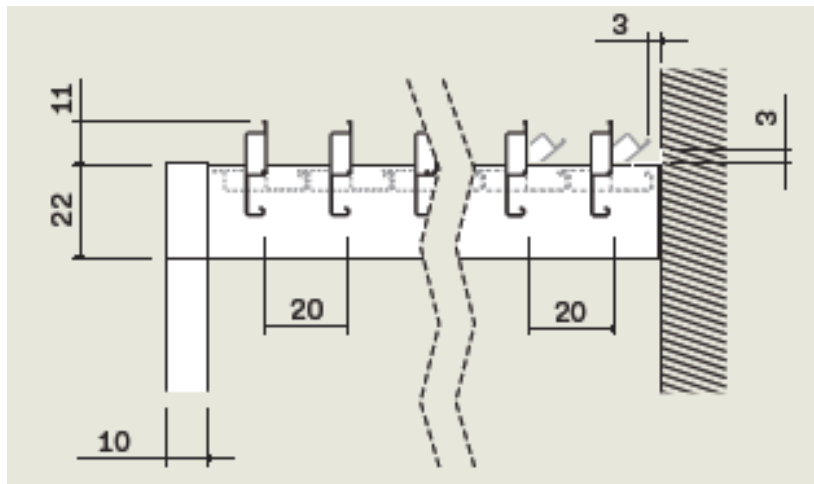
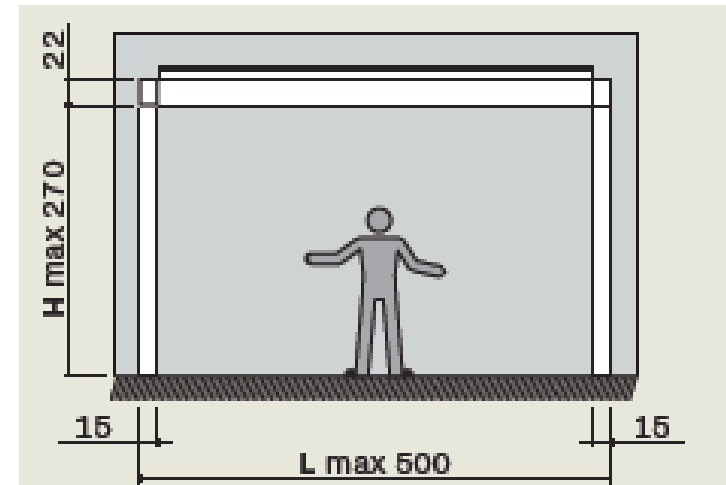


VISION 02L: Wall Mounted on width side con't.

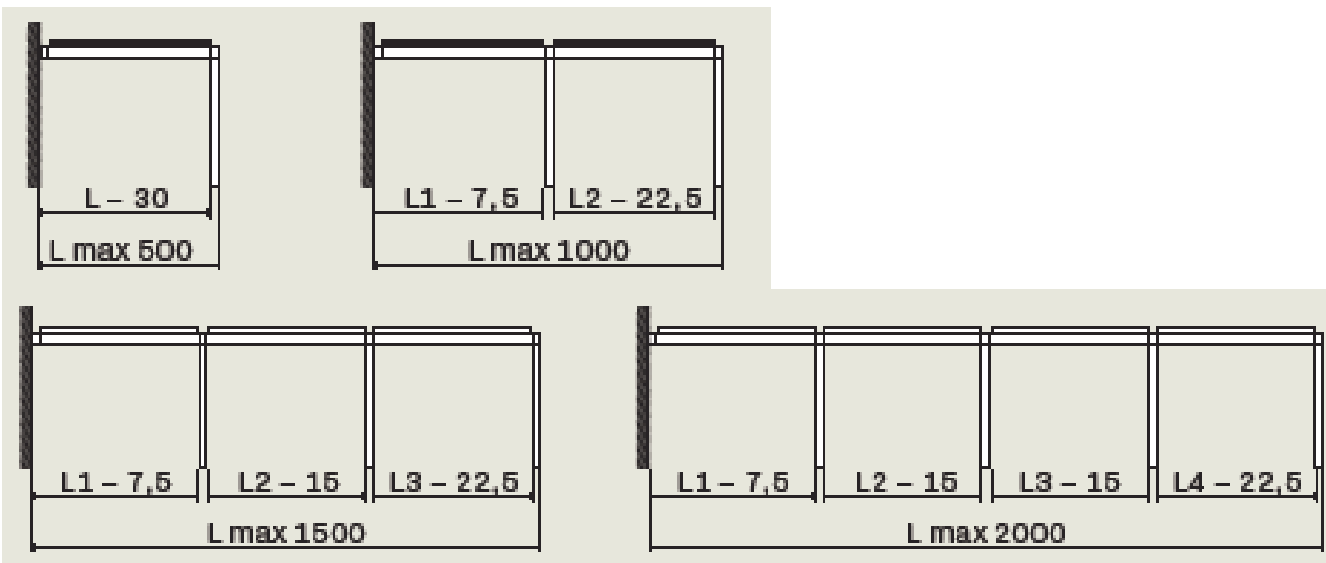
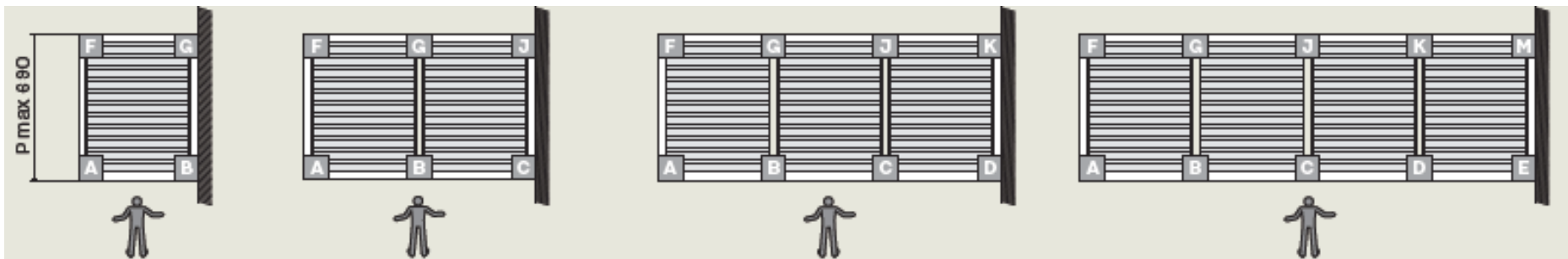
SIDE VIEW



FRONT VIEW

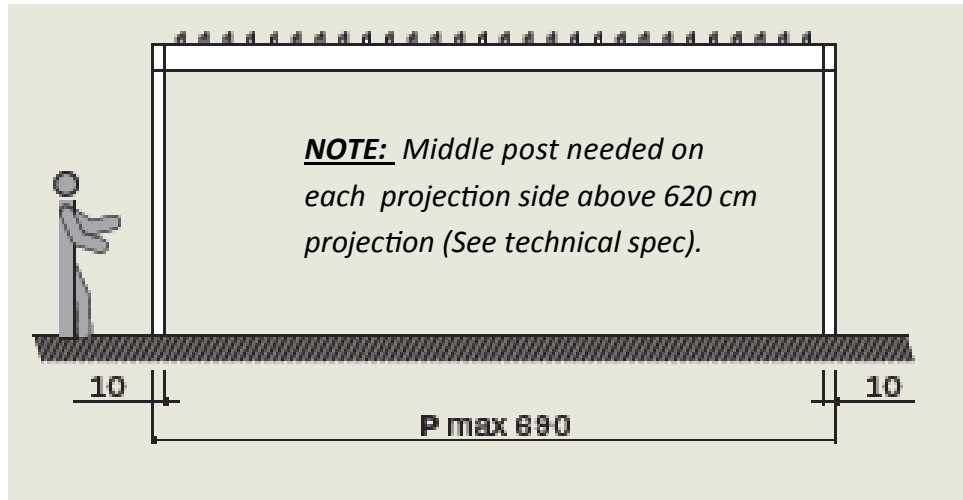


VISION 03L: Wall Mounted on width side Coupled on width side.

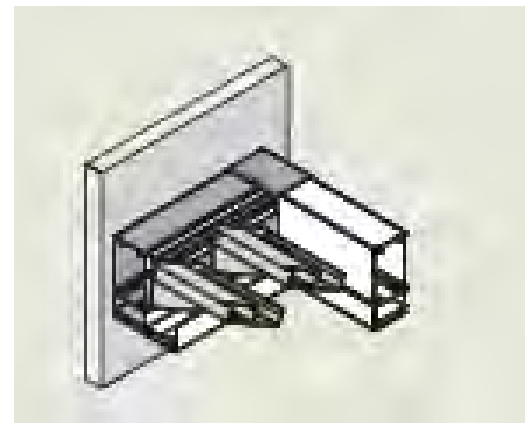
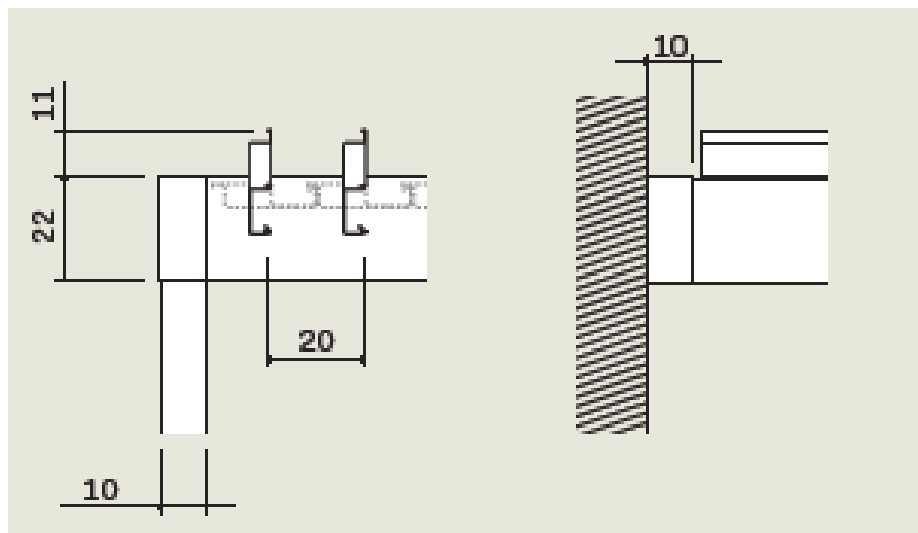
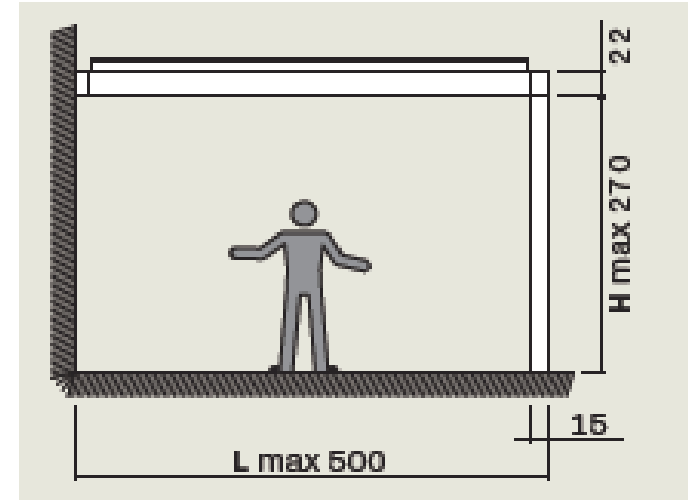


VISION 03L: Wall Mounted on width side con't.

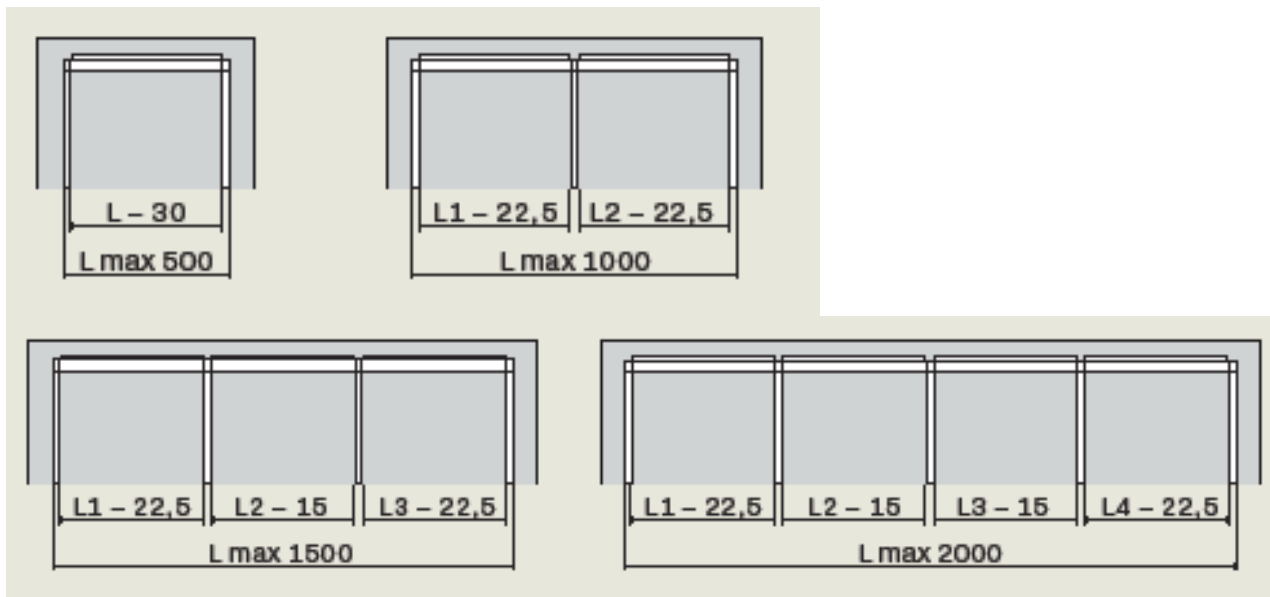
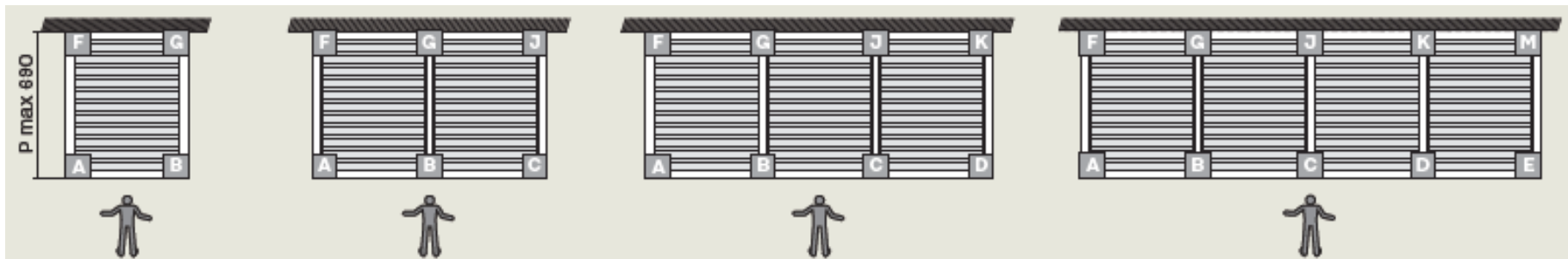
SIDE VIEW



FRONT VIEW

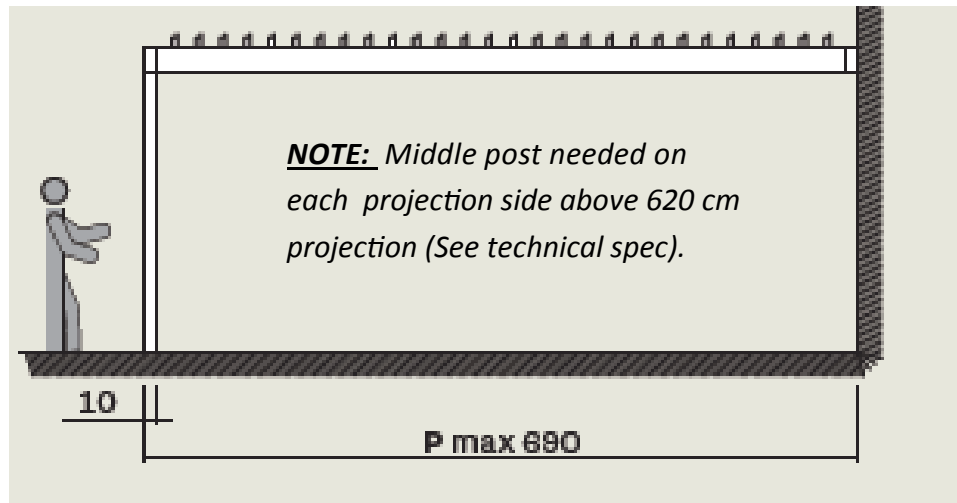


VISION 04L: Wall Mounted on width side / Coupled on projection side with profile.

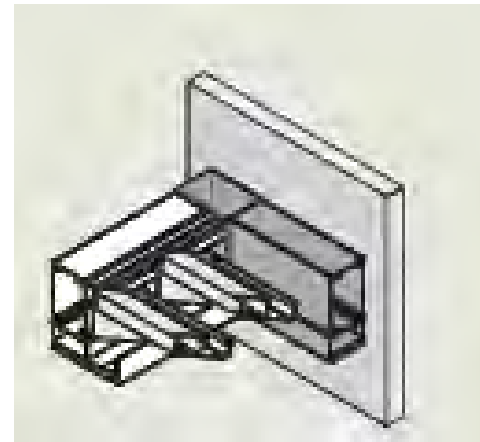
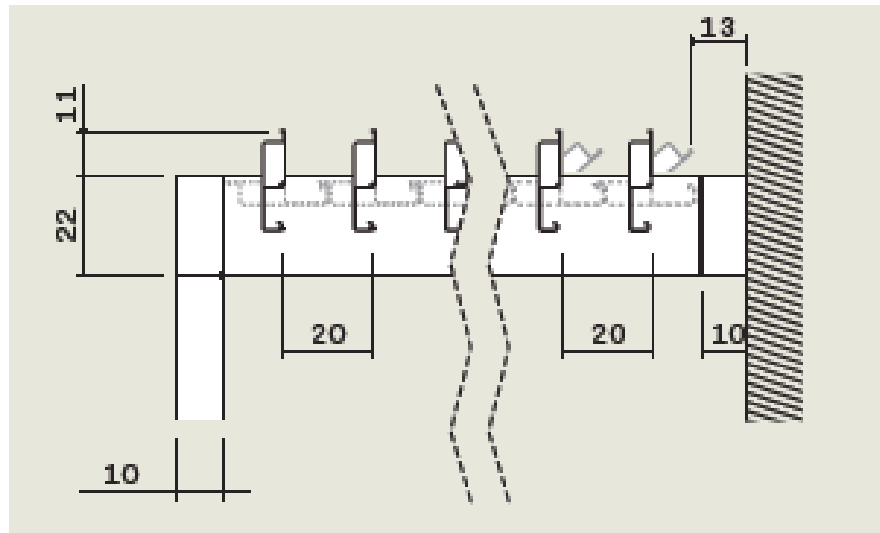
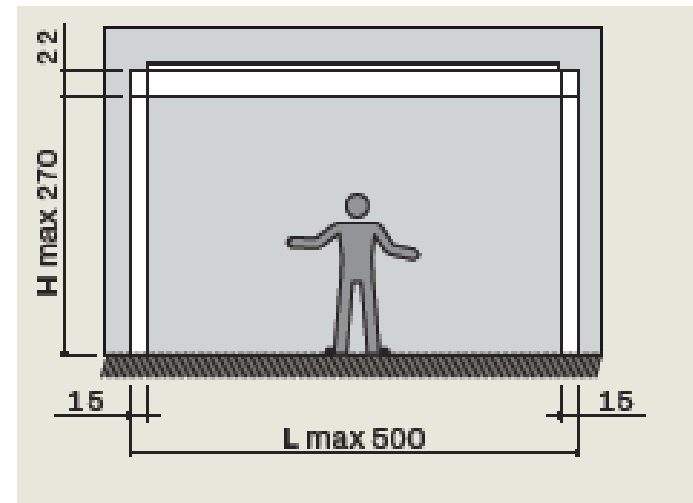


VISION 04L: Wall Mounted on width side con't.

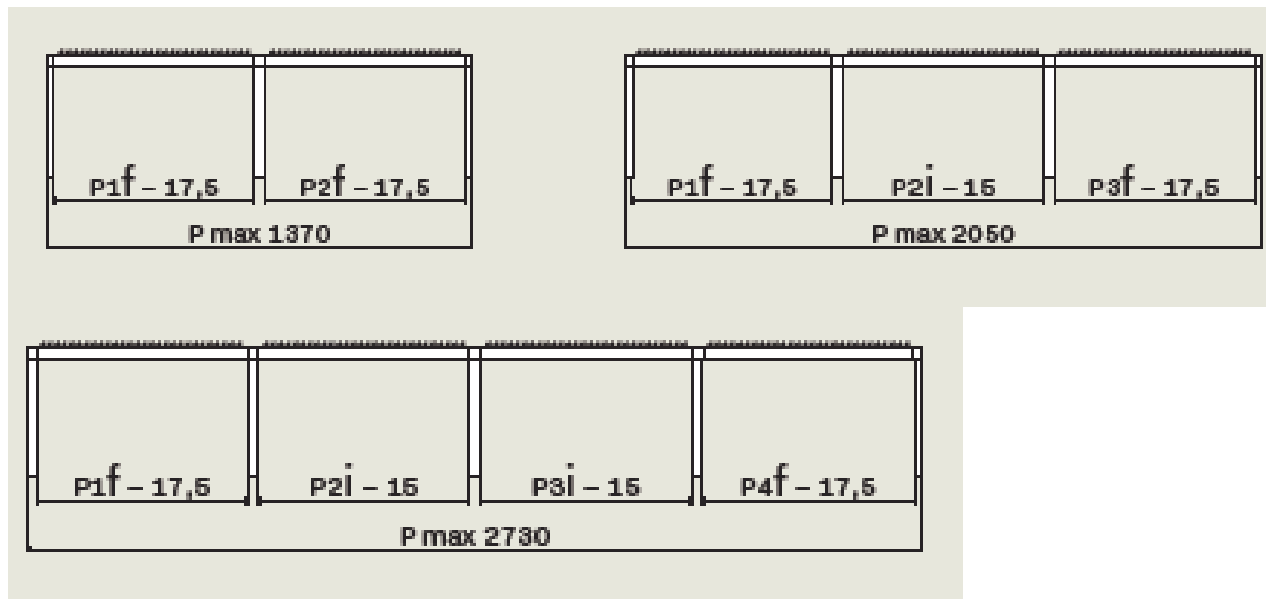
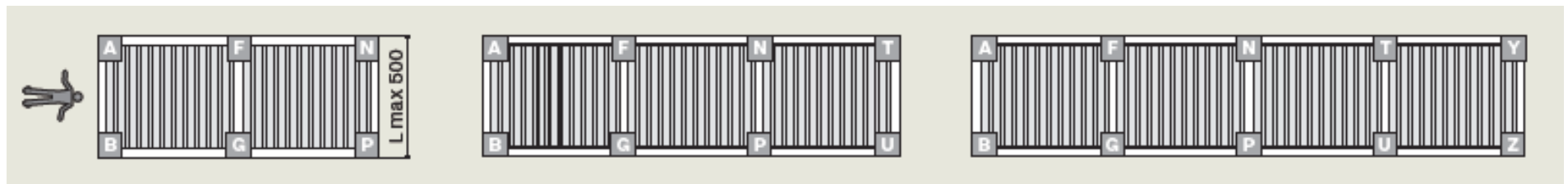
SIDE VIEW



FRONT VIEW

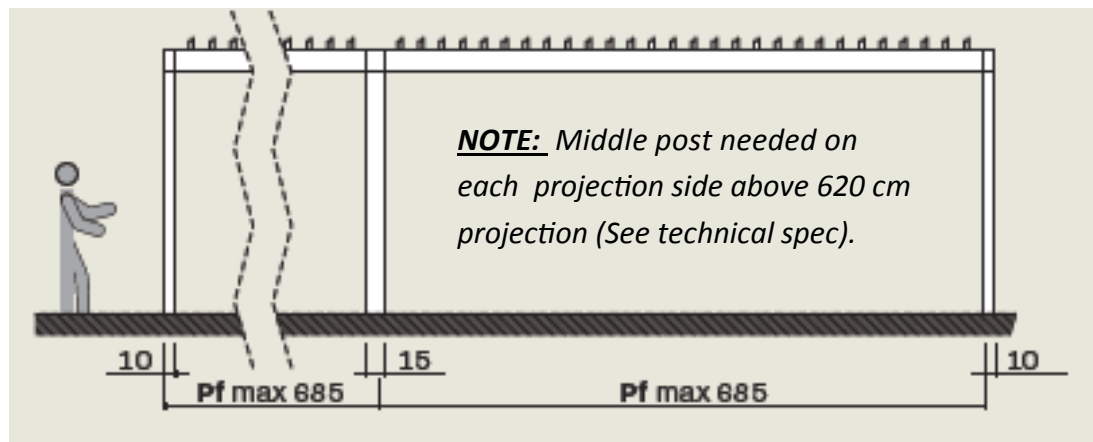


VISION 01P: Free Standing Coupled on width side.

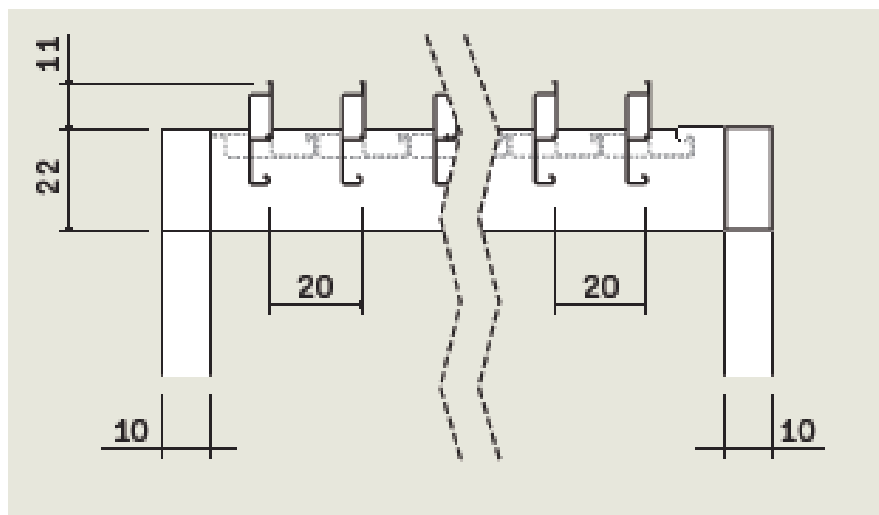
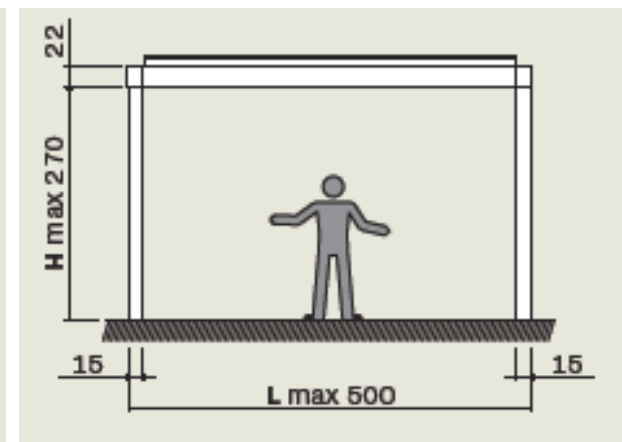


VISION 01P: Free Standing Coupled on width side con't.

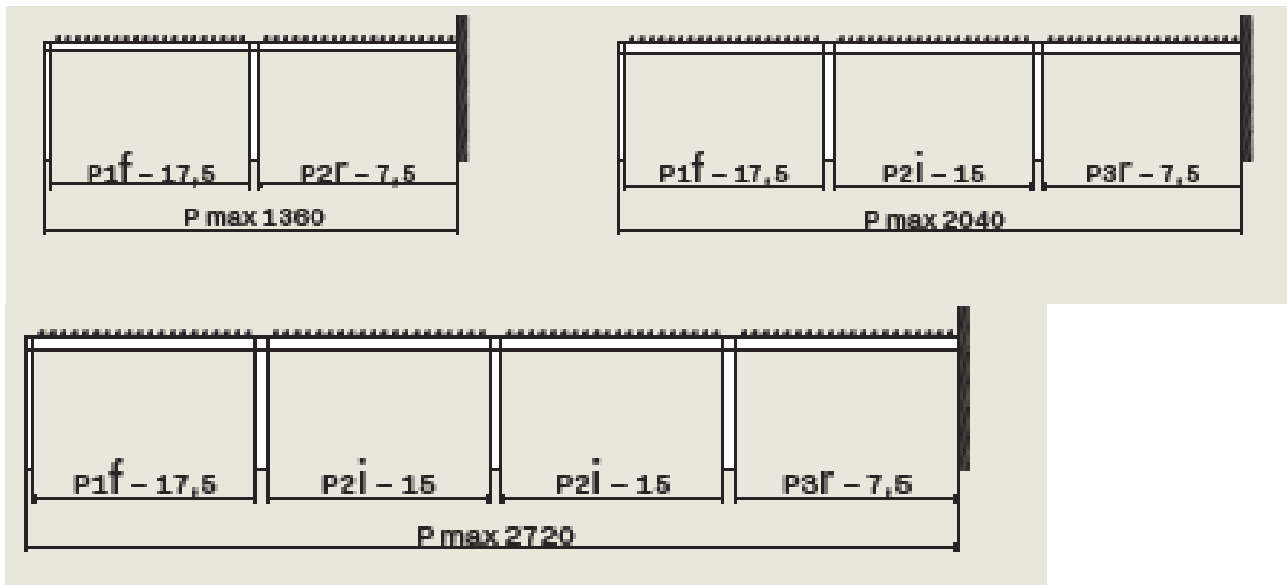
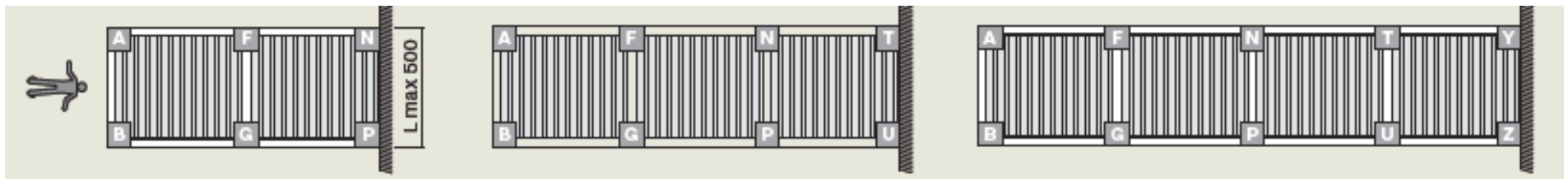
SIDE VIEW



FRONT VIEW

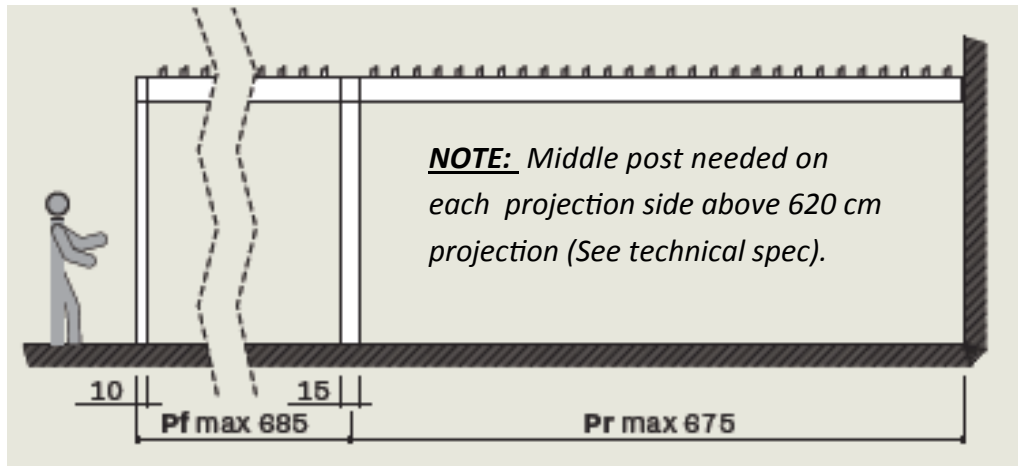


VISION 02P: Wall Mounted Coupled on width side.

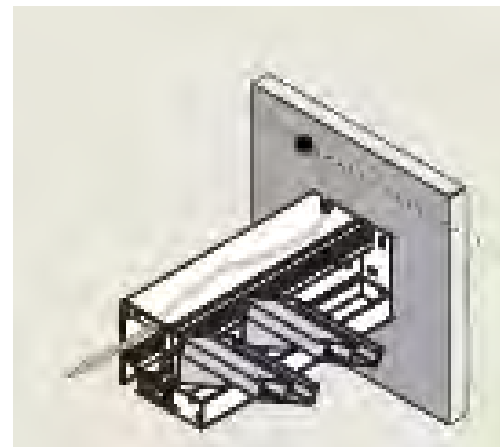
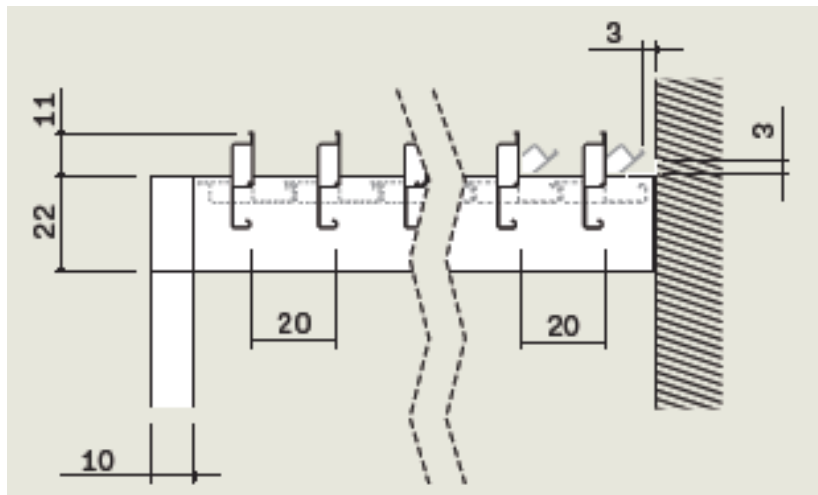
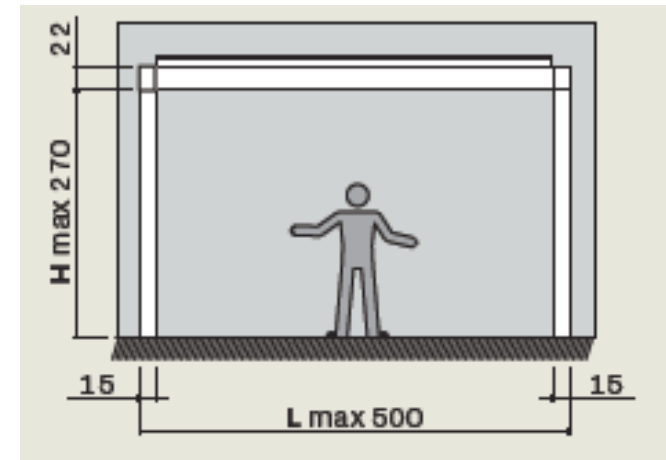


VISION 02P: Wall Mounted con't.

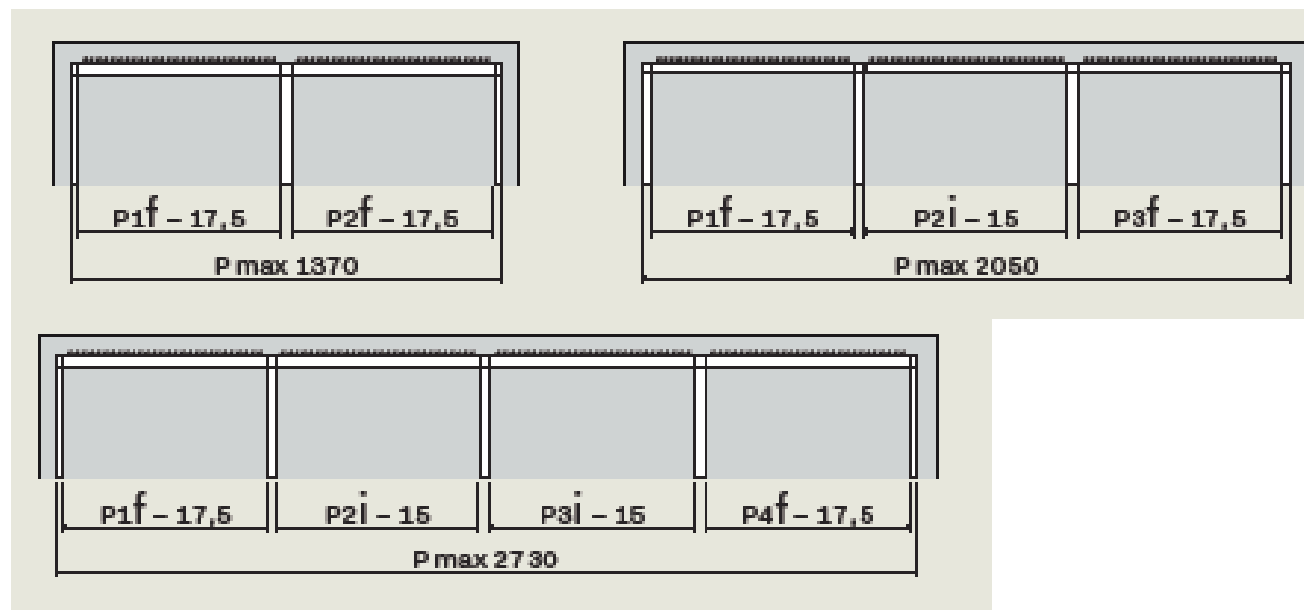
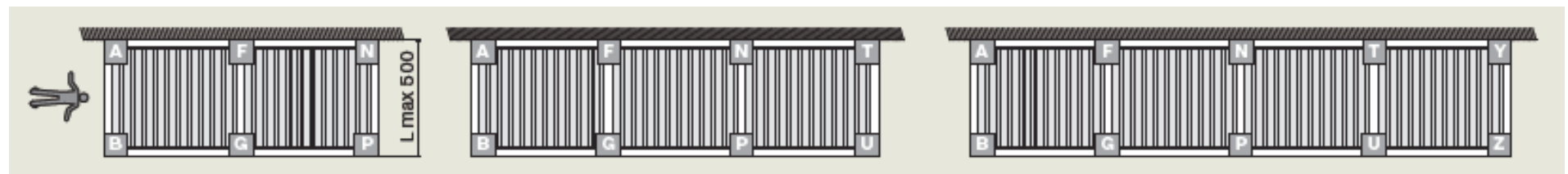
SIDE VIEW



FRONT VIEW

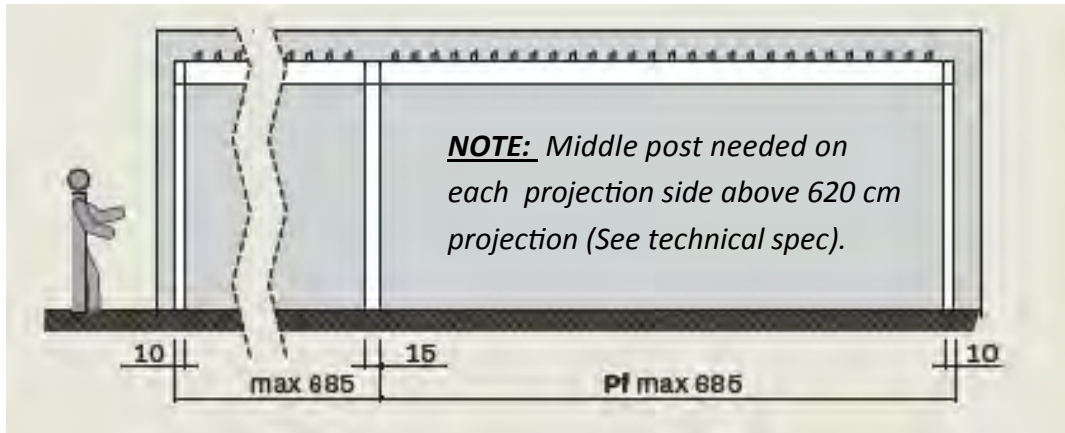


VISION 03P: Wall Mounted on Projection side Coupled on width side.

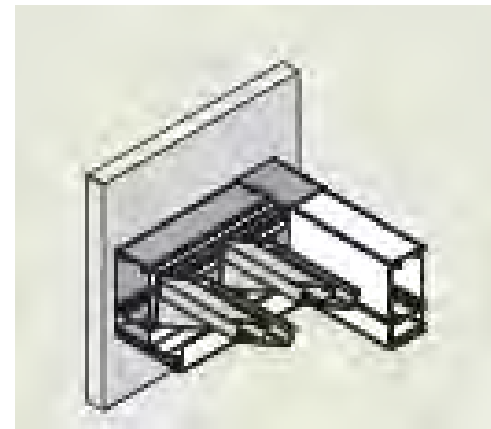
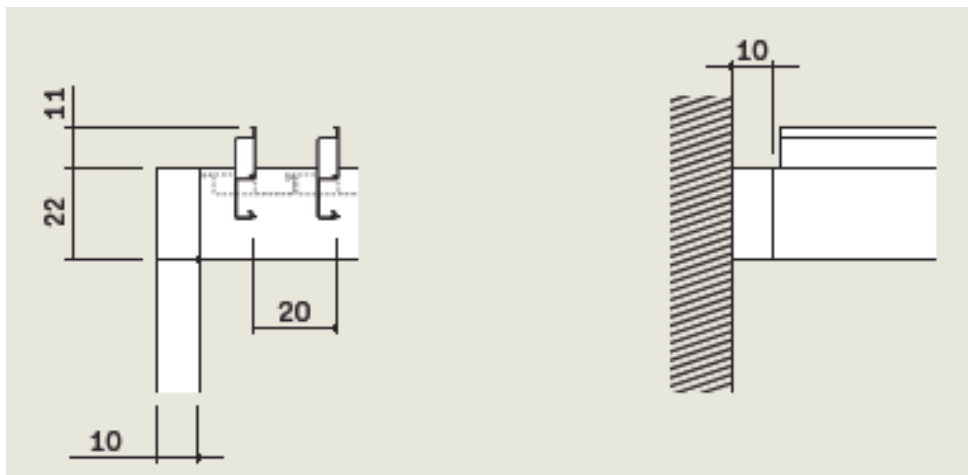
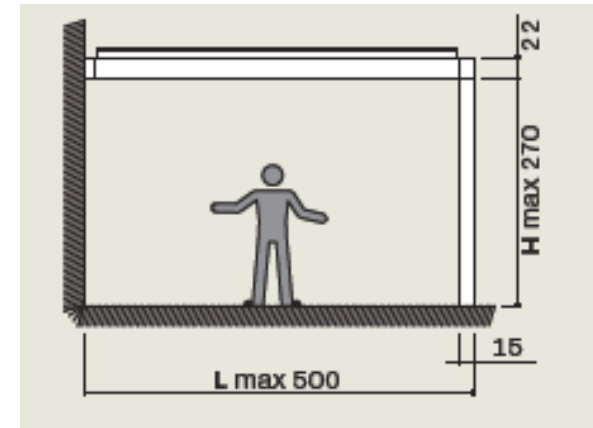


VISION 03P: Wall Mounted on Projection side con't.

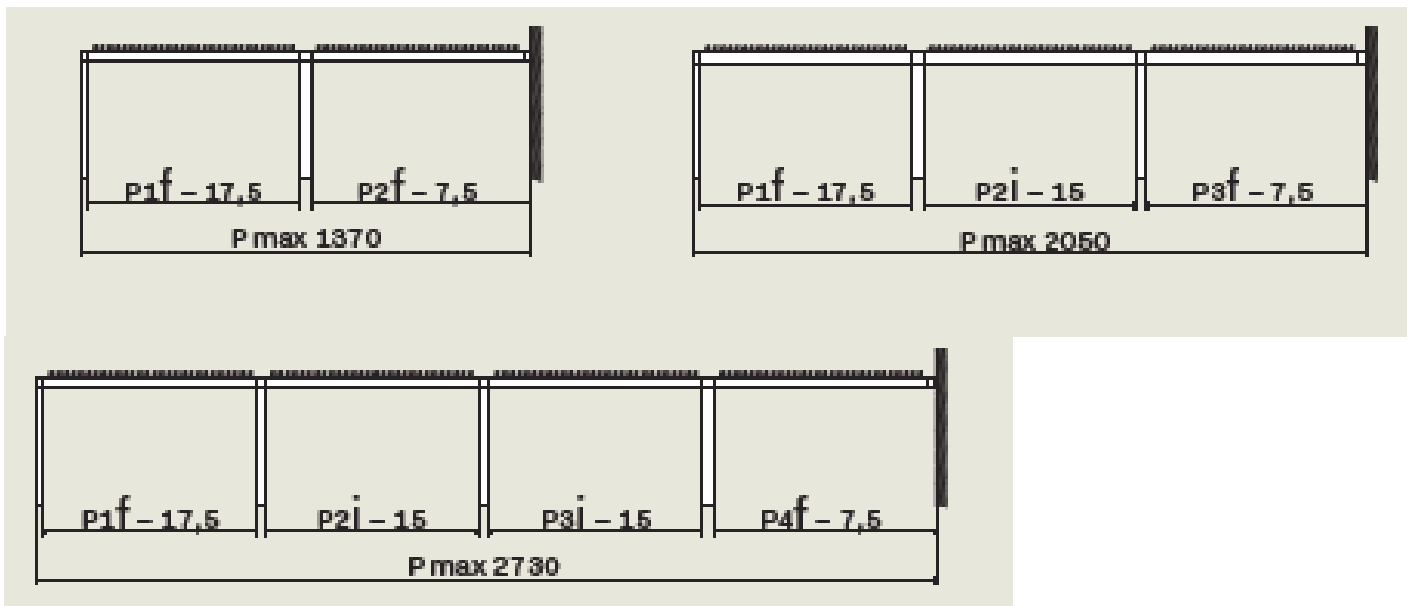
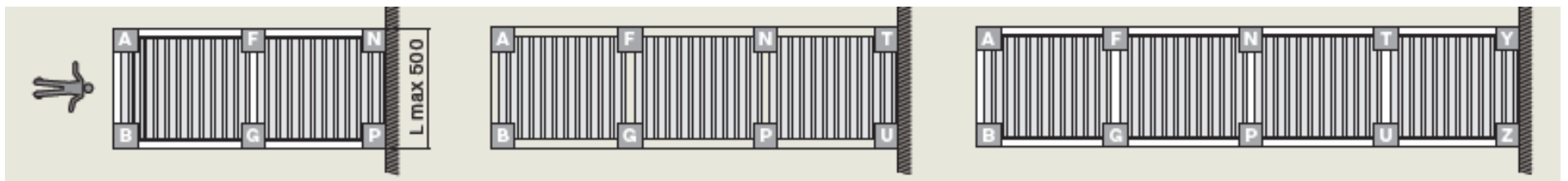
SIDE VIEW



FRONT VIEW

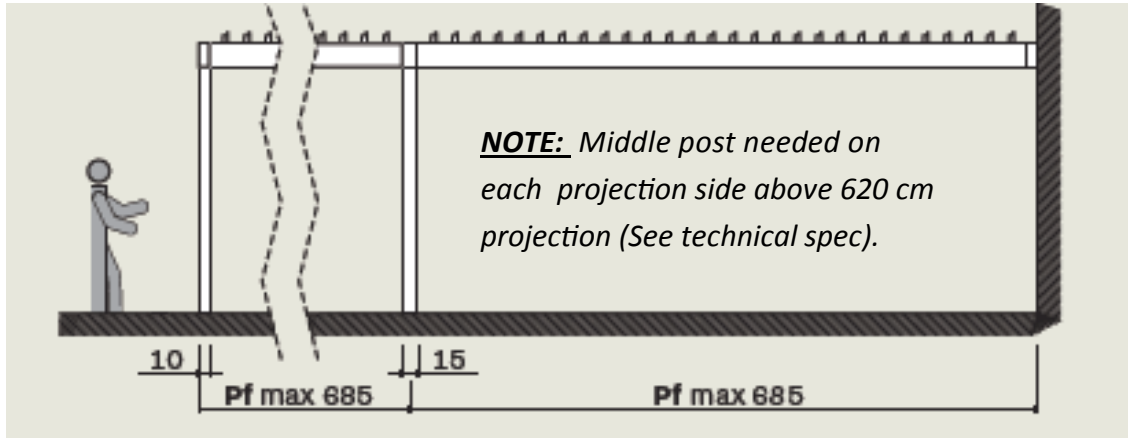


VISION 04P: Wall Mounted on Width side / Coupled on width side with profile.

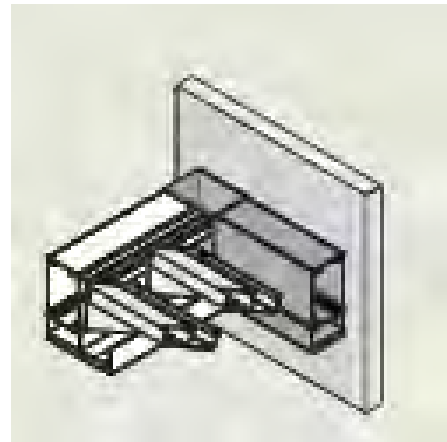
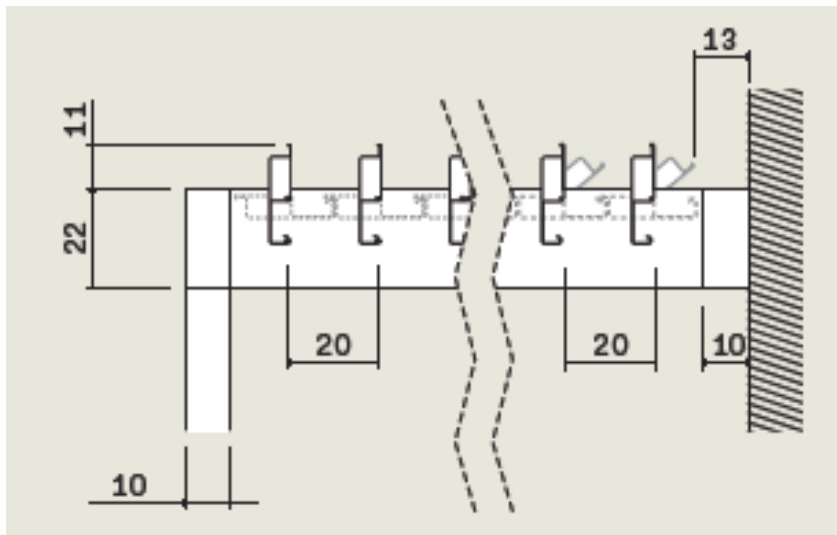
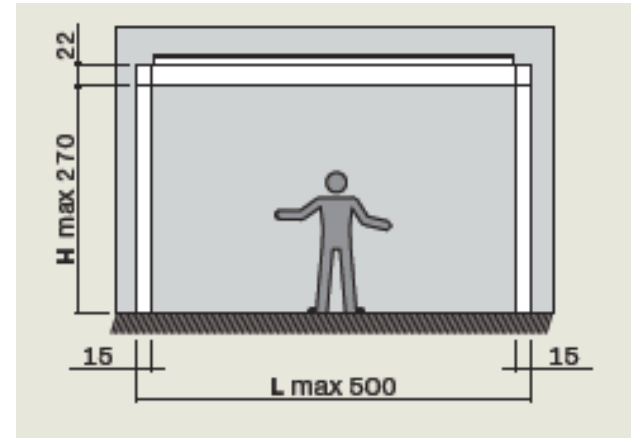


VISION 04P: Wall Mounted on Width side con't.

SIDE VIEW

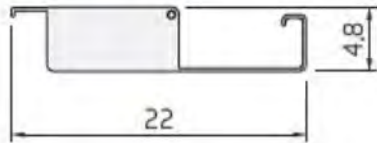


FRONT VIEW

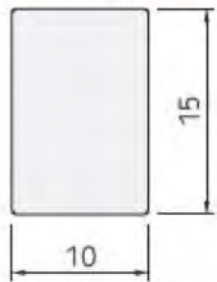


VISION technical details and dimensions.

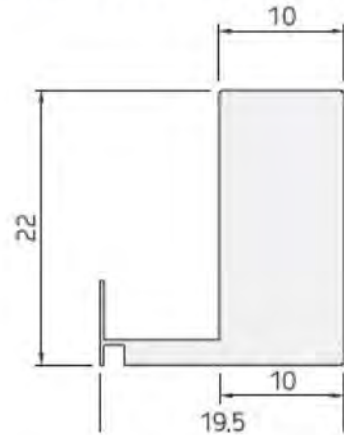
Blade profile



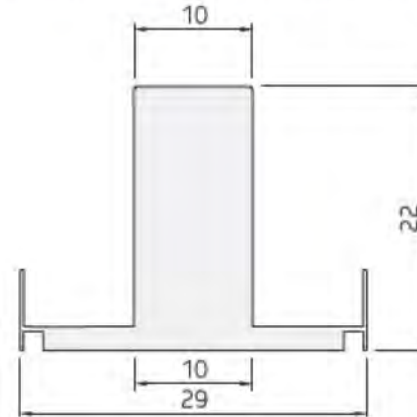
Vision post profile



Vision supporting profile



Intermediate supporting profile

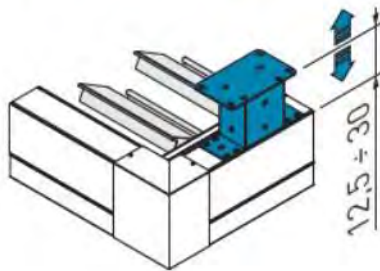


Standard posts height is 90" (230 cm).

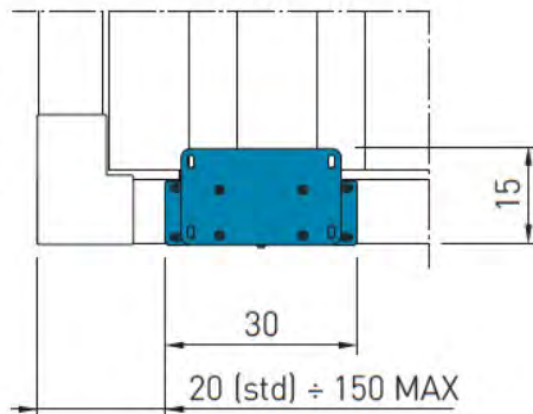
Above 230 cm is an upcharge

Maximum available Vision post height is 106" (270 cm).

Ceiling mounting support



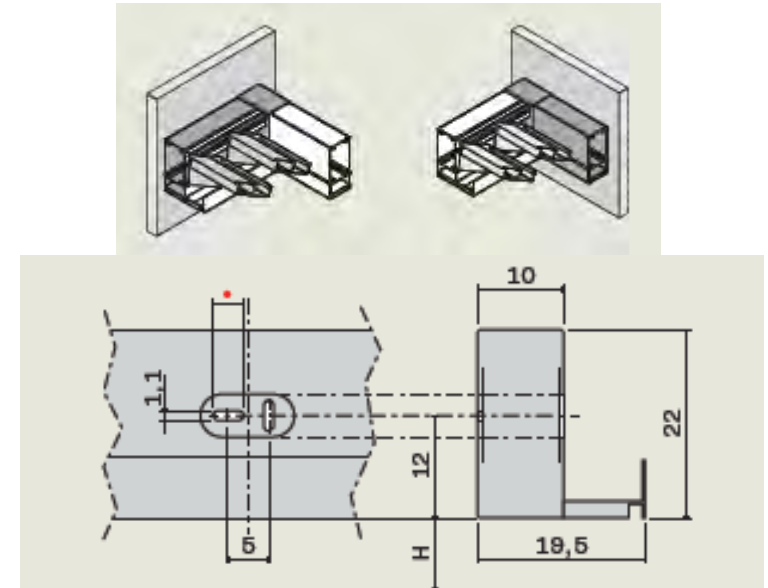
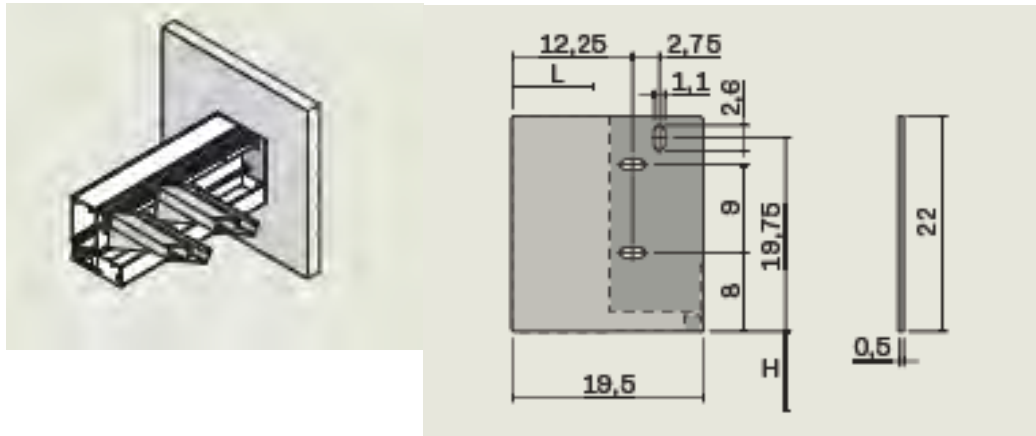
Ceiling mounts,
may be ordered to size
min 12.5 cm - max 30 cm



The optional corner supports can be installed around the perimeter, and minimum 20 cm from each corner up to maximum 150 cm from each corner.

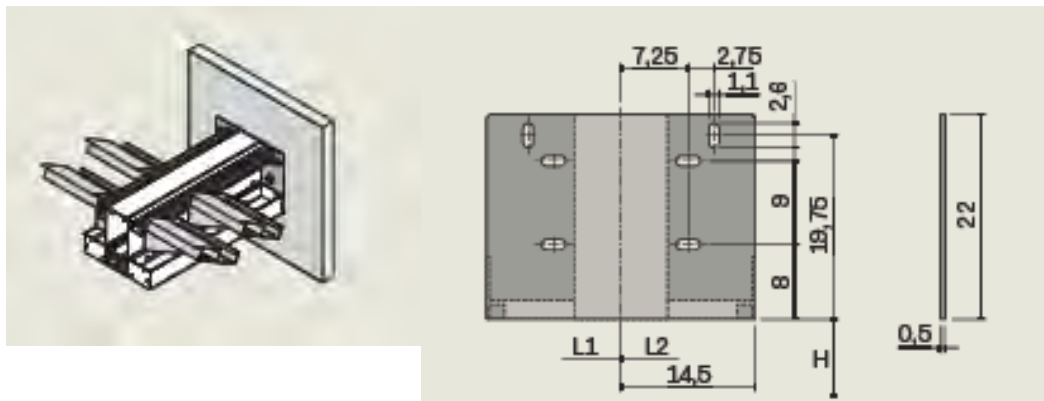
VISION technical details and dimensions con't.

Wall Mounting bracket mounting at sides



Wall Mounting through the Profile

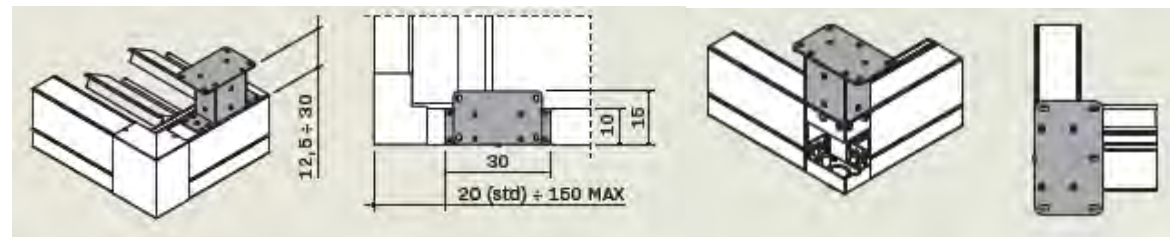
Wall Mounting brackets at Intermediary



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

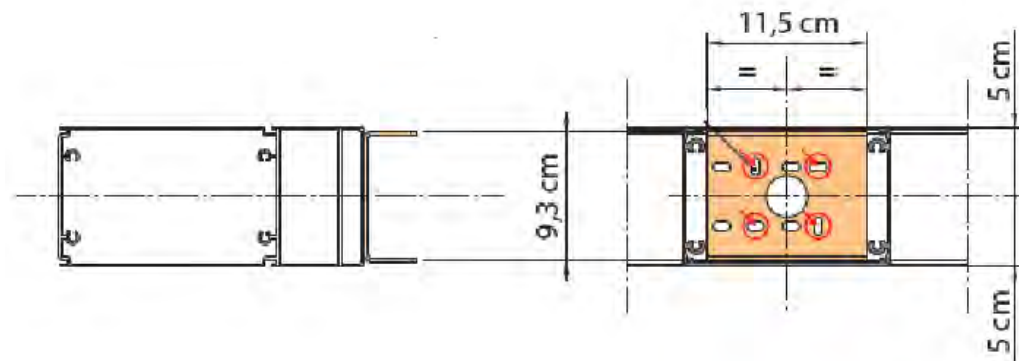
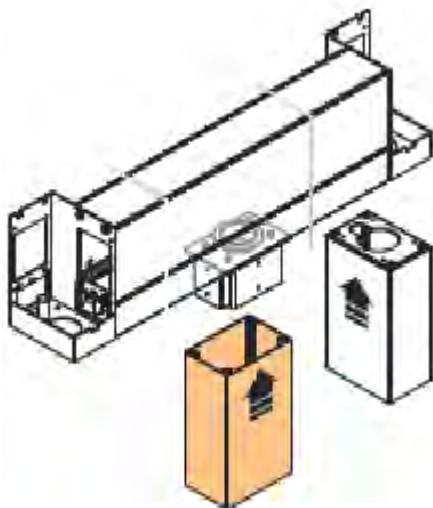
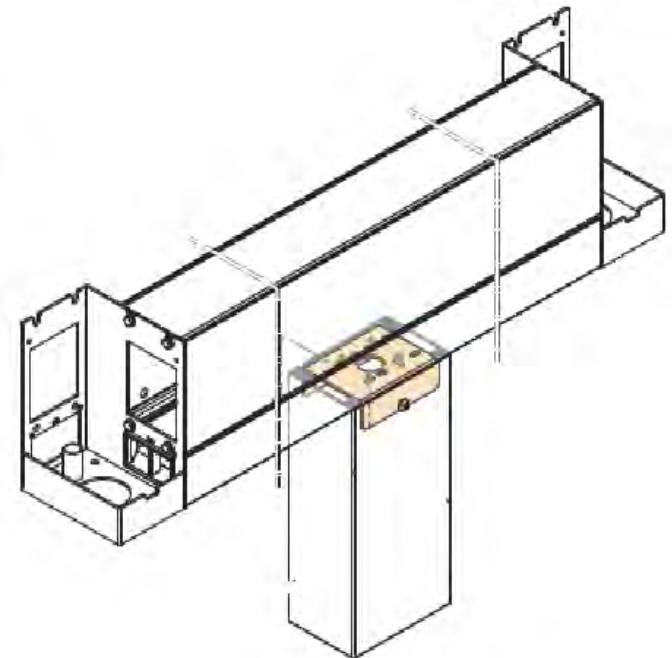
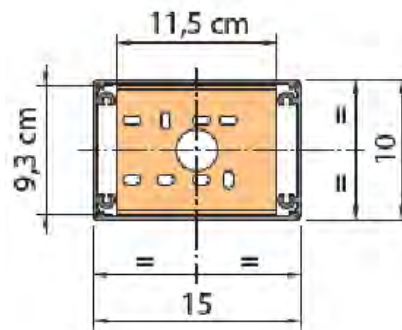
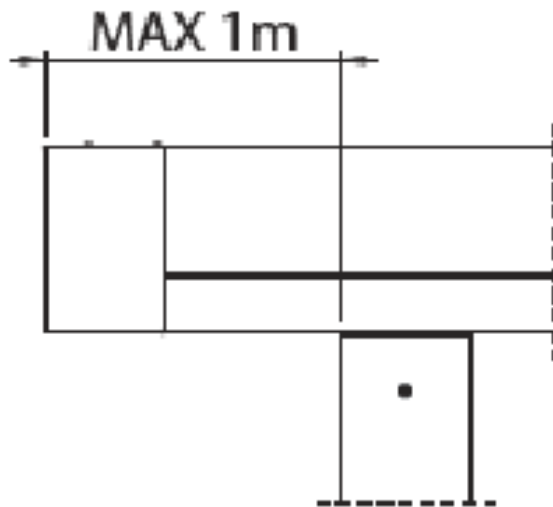
Type B at corner

Type A uneven corner

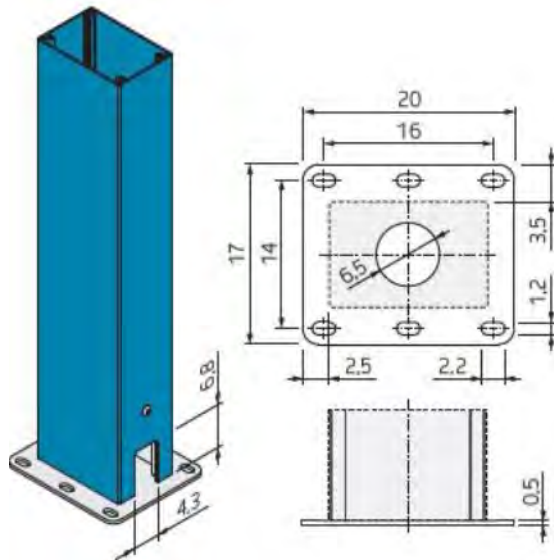


VISION Offset Posts at front.

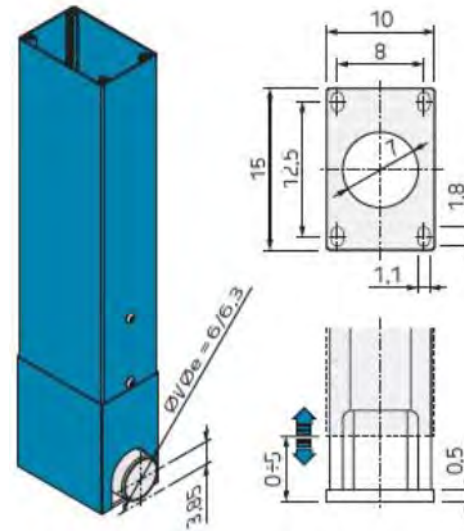
It possible to offset the front Vision post by 1 meter or 39 inches from the front. Please inquire on this option to see if it is possible with your configuration (Not available with Opera).



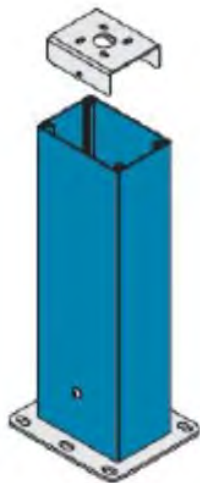
VISION technical details and dimensions continued.



Standard post feet. Standard height is 90" (230 cm). Above 230 cm is an upcharge. Maximum available Opera post height is 106" (270 cm).



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.



Additional posts with standard feet.

Vision post location diagram

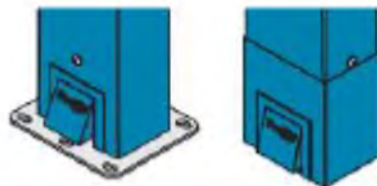


VISION water drainage details.

Vision with standard ground bracket



Vision with telescopic ground bracket



Scupper water discharge / flap is only available with standard post feet and can not be painted.

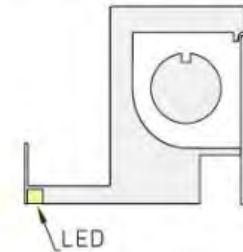
Note: you just make bottom of the post even with the decking or patio surface (Do not add pavers around perimeter).

OPTIONAL PERIMETER LED LIGHTING OPERA & VISION



LED positioning

LED on depth side



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

The OPERA & VISION can be fitted with remote controlled perimeter LED mood lighting 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.

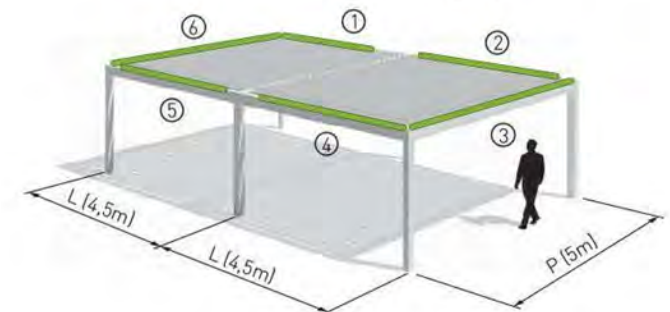


Examples of LED configuration

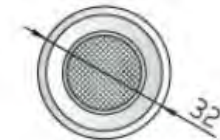
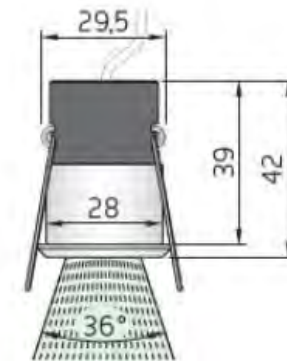
- 1 22 m LED group (strips ①+②+④+⑤), switching on and dimming in common

- 2 10 m LED group (strips ①+② and strips ④+⑤), independent switching on and dimming of the 2 groups

- 4 5 m LED groups (strip ①, strip ②, strip ④, strip ⑤) independent switching on and dimming of the 4 groups



OPTIONAL SPOT LIGHTING OPERA & VISION



Detail of SPOT LIGHT

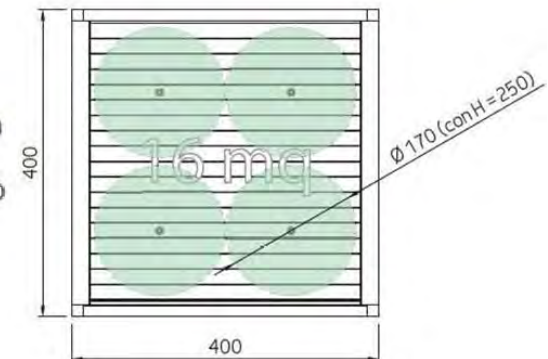
The OPERA & VISION can be fitted with white spot lights which can be added to the louvers where desired. The lights are dimmable to the desired brightness. These lights are controlled with the same remote as the louvered 24 volt motor.

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.

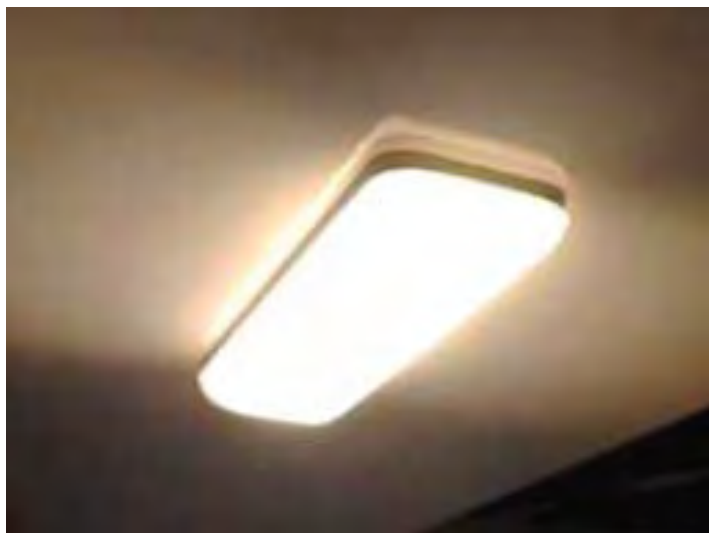
CHARACTERISTICS

- 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

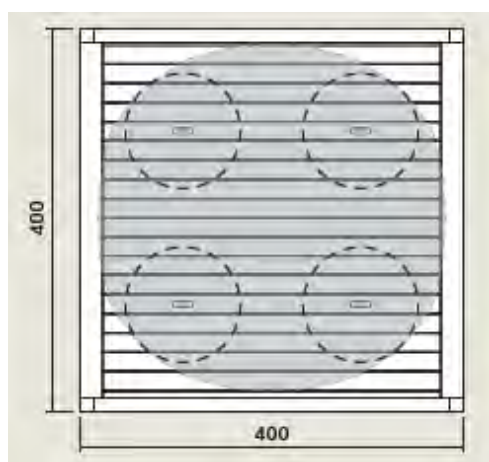
OPTIONAL QUADRA LIGHTING OPERA & VISION



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 & VISION 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

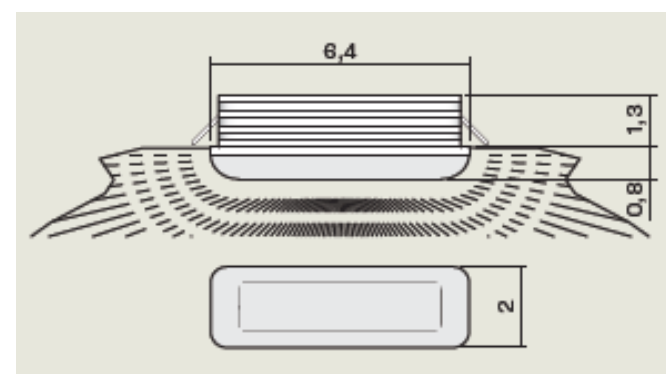
4.5 W

LIGHT OUTPUT

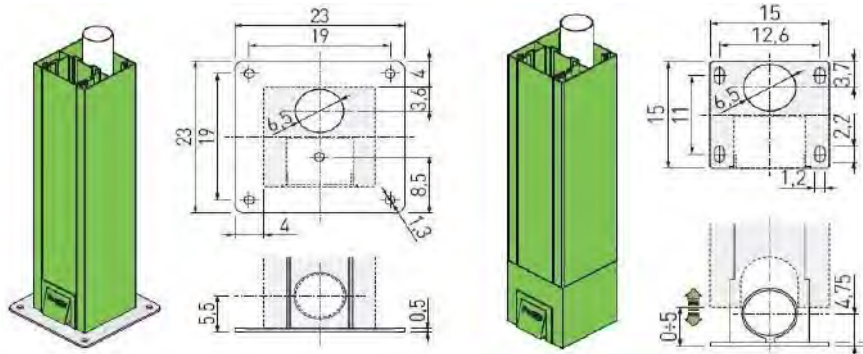
460 Lumens / m

LIGHT PROJECTION

WIDESPREAD



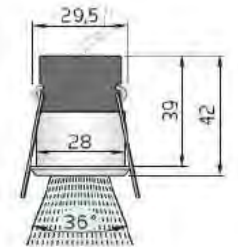
OPERA & VISION: Options



Standard post feet and optional telescoping feet (Opera illustrated)



LED Spot lighting

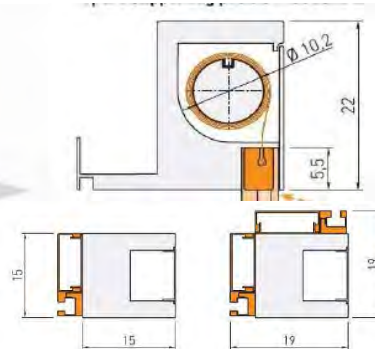


Detail of SPOT LIGHT

LED / RGB Perimeter lighting



RASO Side zipper screens (Opera model only)

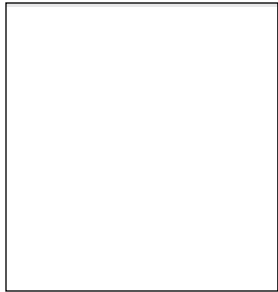


Mesh fabric or with windows

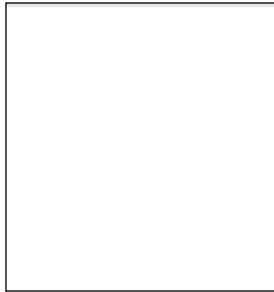
STANDARD FRAME COLORS FOR THESE PERGOLA MODELS:

*Nomo, Rialto, Opera, Vision, Phoenix, Zen,
Alutecnic, Stil, Evo, & Wood Plus (metal components)*

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



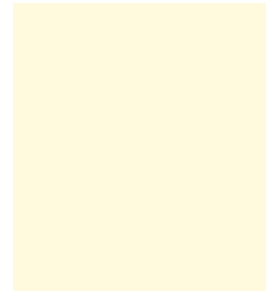
WHITE Gloss
Ral 9010



WHITE SAND
Coarse Ral 9016



IVORY SAND
Ral 1013 Coarse



IVORY / SEMI
Gloss Ral 1013



GREY SAND
Gloss Ral 9006



BRIGHT ALUM
Matt Ral 9006



CORTEN
Coarse



IRON GREY
Coarse

OPTIONAL



FULL RAL COLOR
RANGE / EXTRA
COST

8 Akzo Nobel Colors

AkzoNobel

NOTE: ACTUAL FRAME COLOR MAY VARY FROM DIGITAL IMAGES

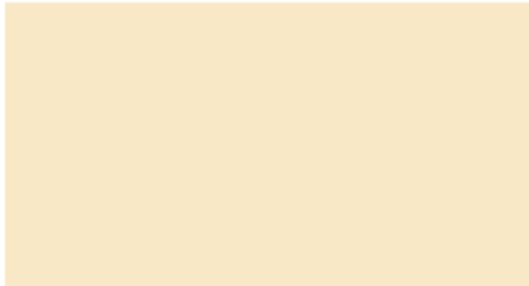


PERGOLA STANDARD FABRIC COLORS

602 FLEX LIGHT CLASSIC / OPAQUE COLORS

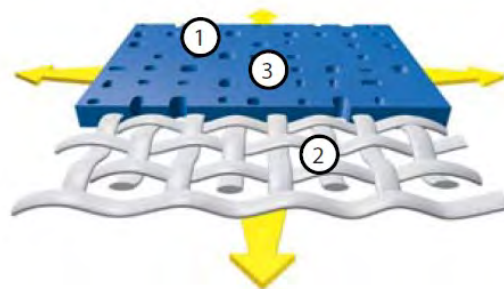


602N-8503 / 8103



602N-50020

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.



Serge Ferrari

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

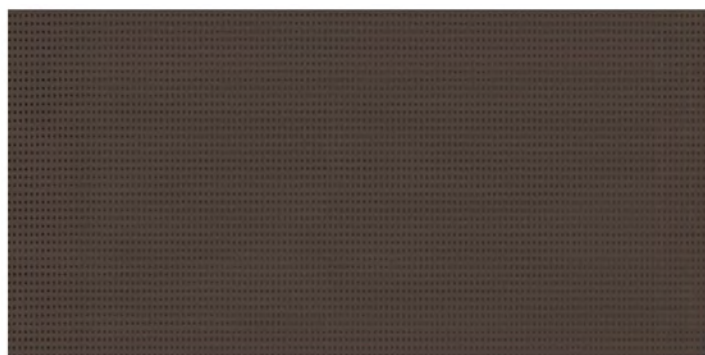

Serge Ferrari

Soltis
Horizon 86

Serge Ferrari

14 % Open Screen Mesh

Raso Screen Fabric



86-2043

Bronze



86 – 2135

Sandy Beige



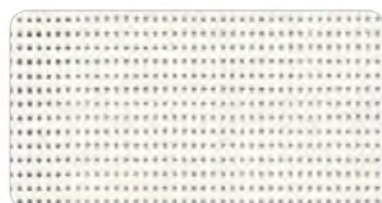
86 – 2053

Black



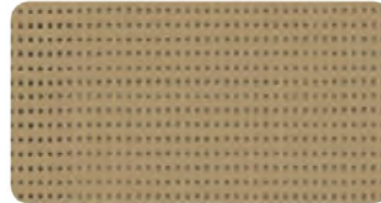
86 – 2175

Champagne



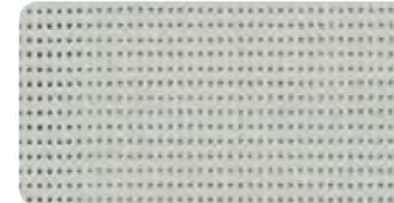
86 – 2044

White



86 – 2012

Pepper



86 – 2171

Boulder

■ Technical properties

Openess factor	14%
Weight	380 g/m ² — 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

24 VOLT BLADE MOTOR OPERA & VISION / Technical

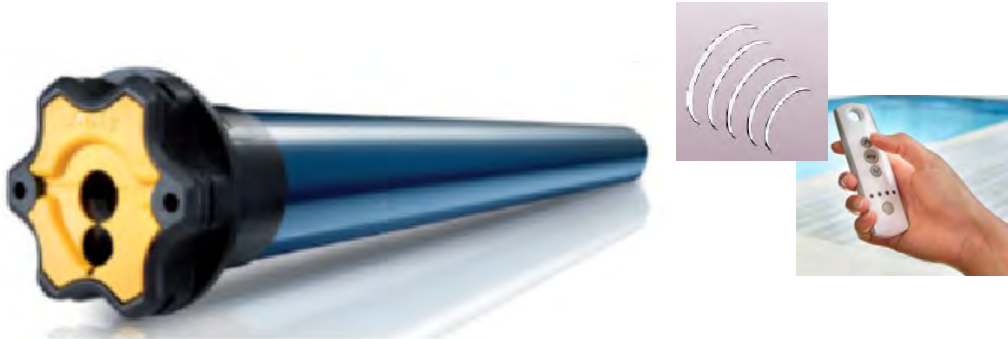


LINAK® 
WE IMPROVE YOUR LIFE

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 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.

OPTIONS:

Screen motor for RASO zipper screens



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

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

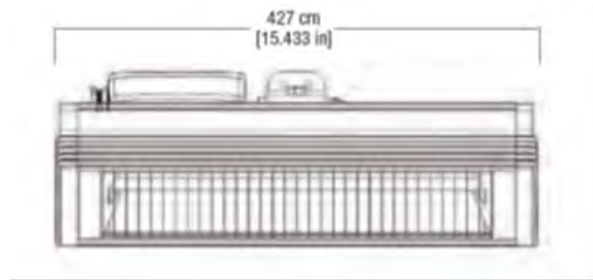


Note: It is recommended to use a multi channel Telis 4 remote to operate multiple screens. The Screen motors use the same RTS motor as all Pergola models except the Louvered Pergola systems. The Louvered OPERA & VISION systems use a separate TELECO remote control to operate the Louvered 24 volt motor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

Performances

525A2

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



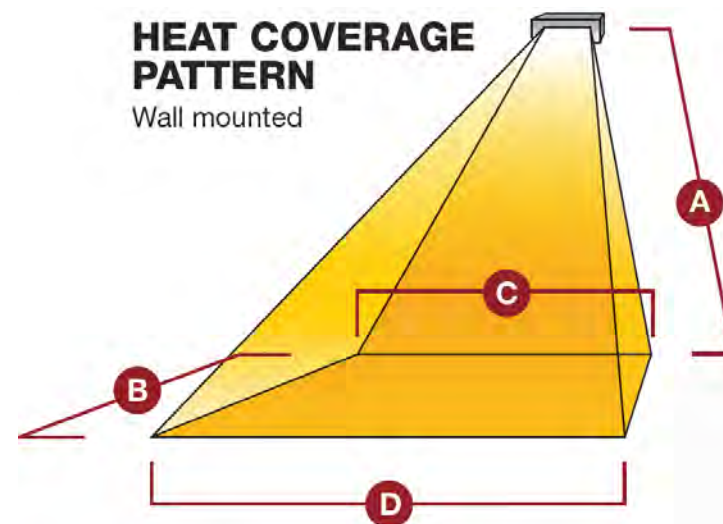
HEATERS: COSY 1500 AW Sleek, Low clearance, infrared heaters.

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

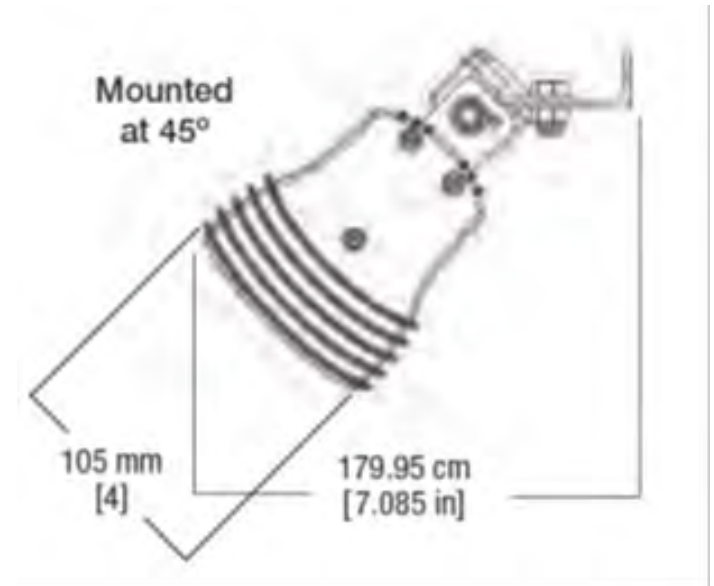
Heater Model Black # SCOSYAW15120B Ral: 9005

Heater Model White # SCOSYAW15120W Ral:9010

ADD CONTROLER AND ENCLOSURE BELOW TO BOTH HEATER MODELS ABOVE:

Controller #SHP18280SOL

Enclosure #SHP80ENCLOSE

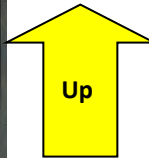


NOTE:

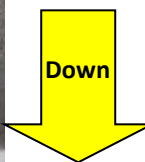
Maximum 6 ea. 110 volt heaters can be used per controller and box.

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

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.



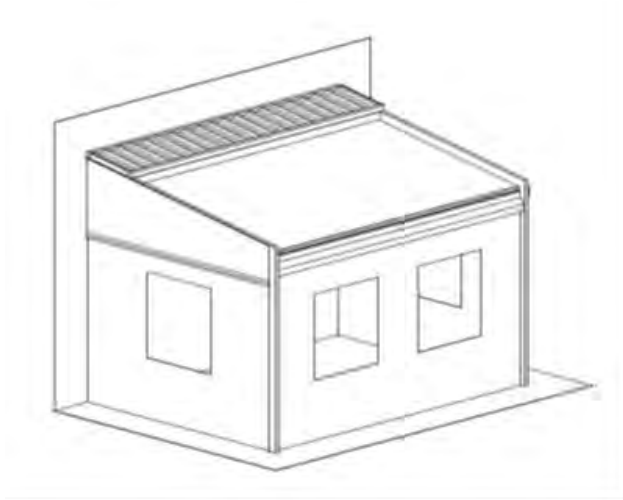
Installations



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.



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Phone: 410 - 799 - 1145

Fax: 410 - 799 - 5584

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Shipping: 3807 West Thomas Rd.

Phoenix, AZ 85017

Toll Free 877 - 272 - 3920

Phone: 602 - 272 - 3920

Fax: 602 - 272 - 3925

www.sunairawnings.com

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