date sheet
pergole

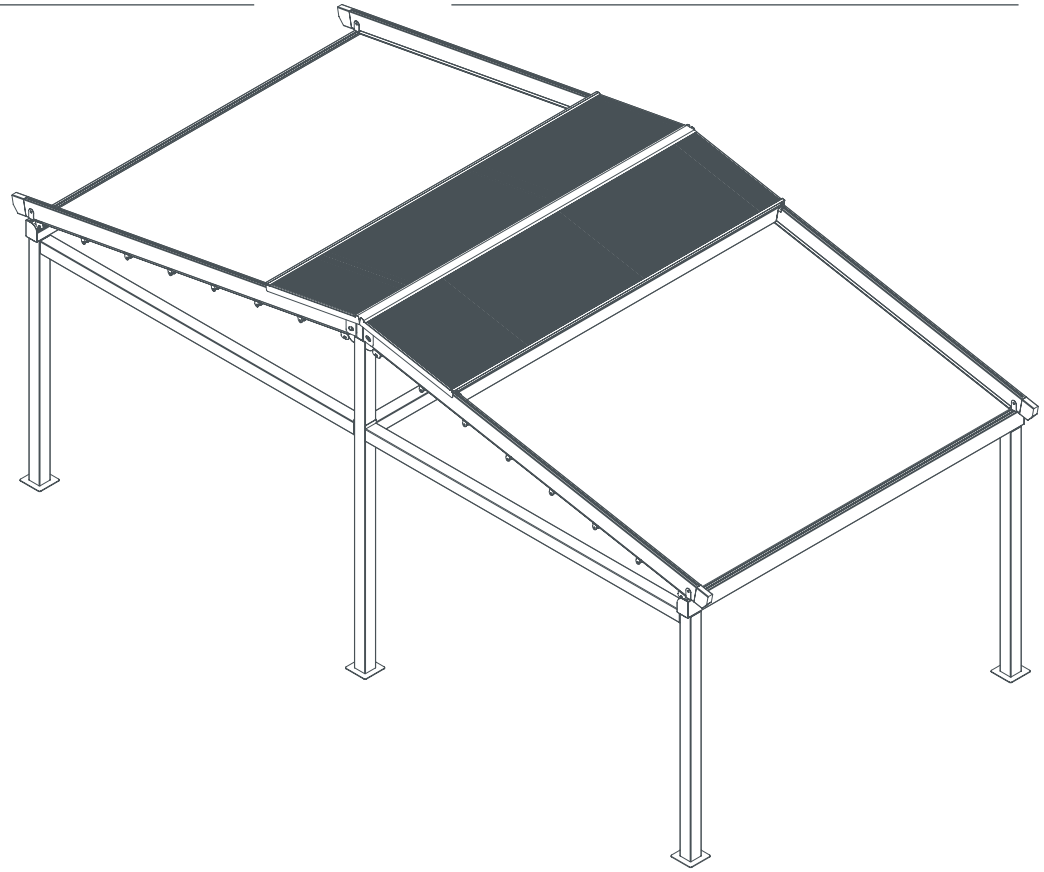
ATRIUM_

Dirello
ITALIAN OUTDOOR DESIGN

ATRIUM

BREVETTATO
PATENTED

ATRIUM is the self-supporting double pergola, flexible and suitable to any kind of project, good structural resistance, able to cover large areas.
Solid structure, all-aluminum with retractable horizontal awning, with stretched canvas when open and folded when closed, thanks to a system of aluminum guides (sec 115x50) and sliding trolleys that allows motion. The system is equipped with protection roof and a strong built-in gutter designed to allow rainwater drainage direct into the pillars. Maximum functionality when positioning the pillars, (section 115x115 mm) to allow the most appropriated placement and getting the most useful front interaxis. It is installed sloped, to determine the slope value see the slope page of the product
The solid intermediate profiles supports the weathering loads exerted (snow excluded), it offers a reliable protection against sun and rain.
The structure is supplied with PVC coated polyester fabric fireproof class 2, overshadow, stain-resistant and treated to protect the fabric from the action of UVA rays and against water and micrograms.
Motion is with manual winch (max 15 sq. m.) or with electronic motor and remote control of your choice.
Maximum dimensions 1300 cm wide and 1300 cm projection, 169 sq. m. of surface area covered.



COATING
standard //

RAL 9010 gloss

RAL 1013 fine texture

Iron Grey fine texture

Brown Leather

TEXTILE
standard //

VALMEX® FR 700
OPAK cod. 7259 5740
908 White
Gtot int: 0,33

VALMEX® FR 700
OPAK cod. 7259 5740
112 Cream
Gtot int: 0,36

VALMEX® FR 700
OPAK cod. 7259 5740
729 Grey
Gtot int: 0,37

PRECONTRAINT 622
BLOCKOUT
503 White
Gtot int: 0,32 Gtot ext: 0,01

PRECONTRAINT 622
BLOCKOUT
020 Vanilla
Gtot int: 0,35 Gtot ext: 0,02

PRECONTRAINT 622
BLOCKOUT
597 Taupe
Gtot int: 0,39 Gtot ext: 0,04

TEXOUT
OPATEX PRO
444 Bordeaux/Champagne
Gtot int: 0,50 Gtot ext: 0,07

TEXOUT
OPATEX PRO
632 Green/Champagne
Gtot int: 0,45 Gtot ext: 0,06

TEXOUT
OPATEX PRO
815 Anthracite/Champagne
Gtot int: 0,42 Gtot ext: 0,04

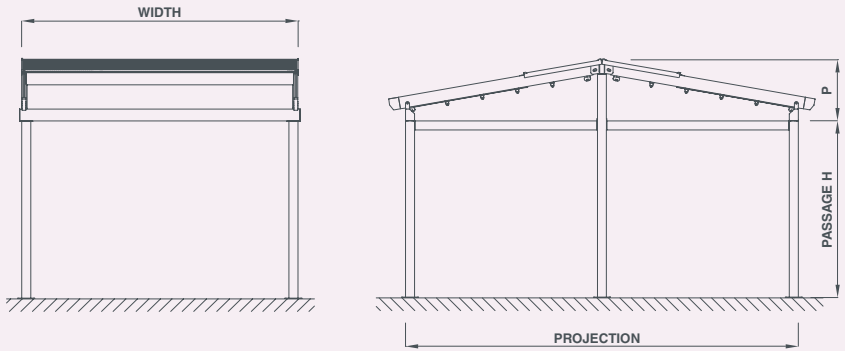
TEXOUT
OPATEX PRO
819 Taupe/Champagne
Gtot int: 0,45 Gtot ext: 0,06

TEXOUT
OPATEX PRO
878 Grey/Champagne
Gtot int: 0,44 Gtot ext: 0,05

TEXOUT
OPATEX PRO
877 Dark gray / Light gray
Gtot int: 0,44 Gtot ext: 0,05

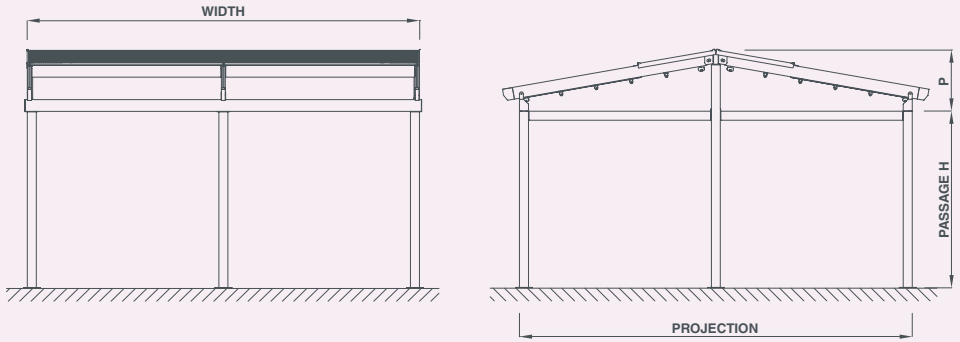
others coatings colors see related page //

ATRIUM // DIMENSIONS



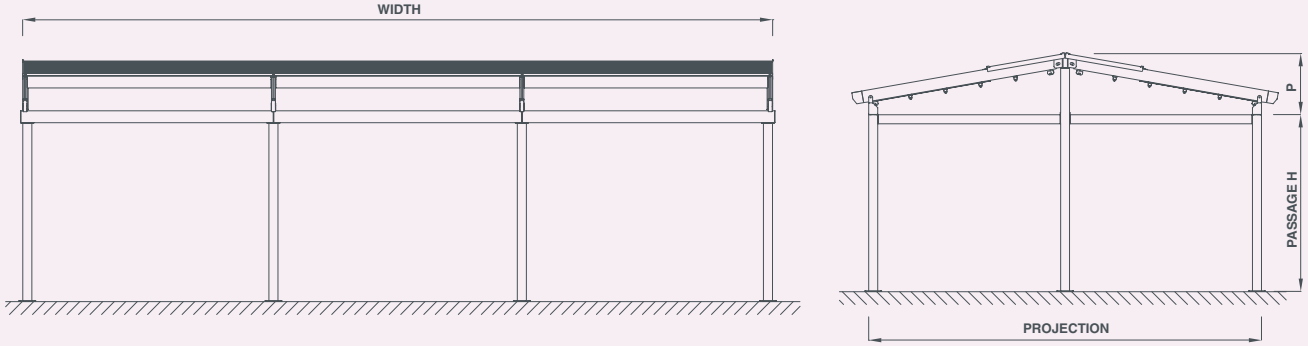
ATRIUM // SINGLE FORM

(L: max 500 cm)
(S: max 1300 cm)



ATRIUM // DOUBLE FORM

(L: max 900 cm)
(S: max 1300 cm)



ATRIUM // TRIPLE FORM

(L: max 1300 cm)
(S: max 1300 cm)

ATRIUM // SINGLE FORM

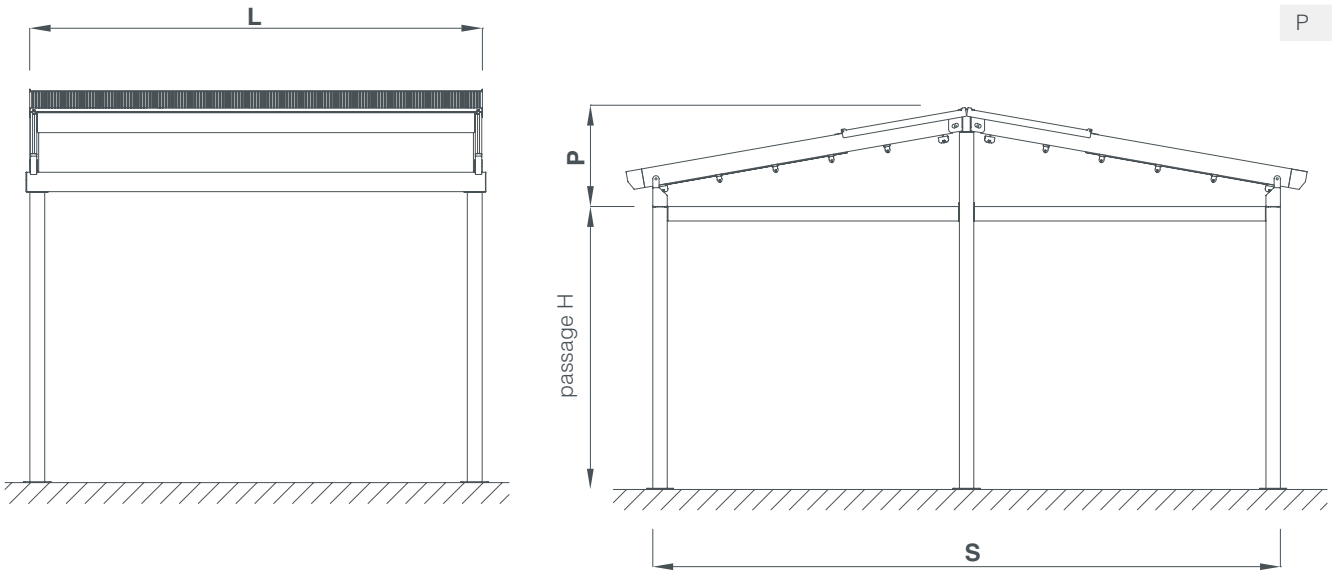
To manage storm water runoff:
see slopes table page 193

Wind resistance:
UNI EN 13561.2015:
class 3
(corresponding to grade six on the Beaufort scale)

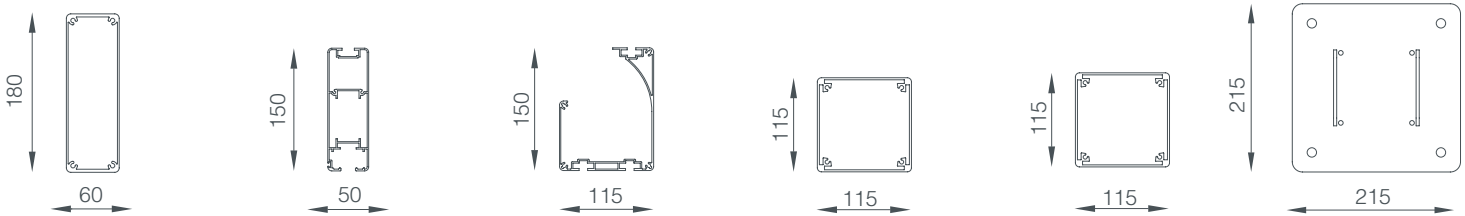
Watertightness:
25 l / h per sqm.

L	width
S	projection
P	slope

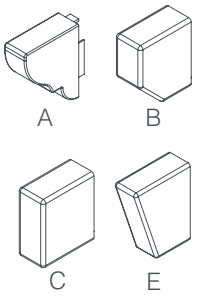
L	max total width single form	500 cm
S	max total projection	1300 cm
P	slope	



TECHNICAL DETAILS // STANDARD



CAPITALS //



ATRIUM // SINGLE FORM

		type **stretched fabric - assembled**						
WIDTH		**200**	**250**	**300**	**350**	**400**	**450**	**500**
PROJECTION	**500**							
	600							
	700							
	800							
	900							
	1000							
	1100							
	1200							
	1300							

ADDITIONAL ELEMENTS

outdoor LED system							
Watt average values	25,2	31,5	37,8	44,1	50,4	56,7	63

CONTROL FUNCTIONS & OPTIONALS

double Secure Box Motor (single and double form)					pc.
remote control Situo 5 IO					pc.
dimmable lights receiver IO - max 500 W					pc.
driver 24 V	up to 80 W	up to 150 W	up to 240 W	up to 320 W	up to 600 W
other remote controls and / or sensors see related page					

ATRIUM // DOUBLE FORM

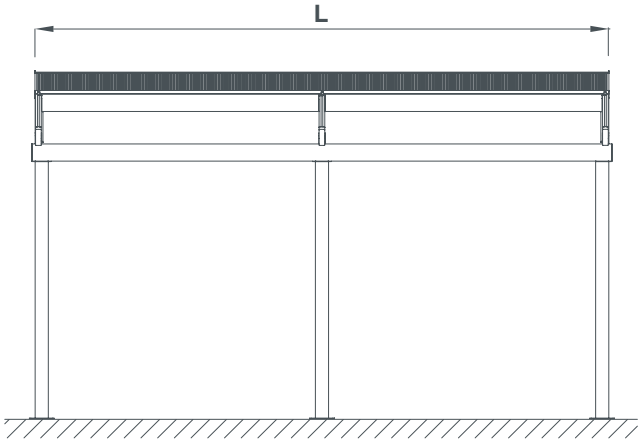
To manage storm water runoff:
see slopes table page 193

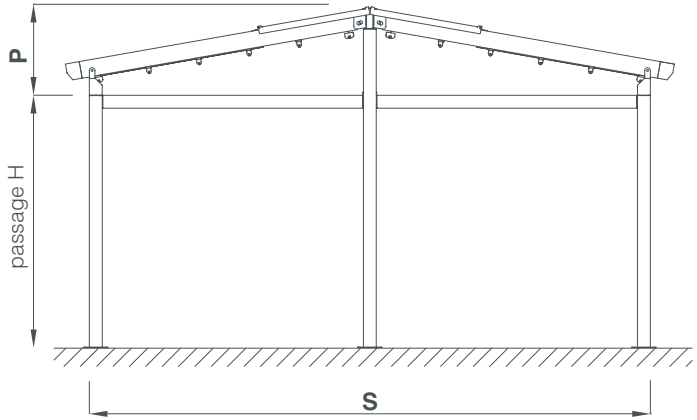
Wind resistance:
UNI EN 13561.2015:
class 3
(corresponding to grade six on the Beaufort scale)

Watertightness:
25 l / h per sqm.

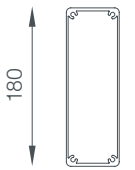
L	width
S	projection
P	slope

L	max total width double form	900 cm
S	max total projection	1300 cm
P	slope	

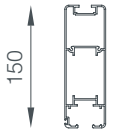




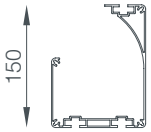
TECHNICAL DETAILS // STANDARD



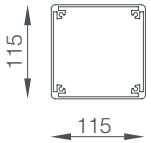
MOUNTING BEAM



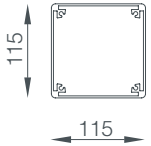
SLIDING GUIDE



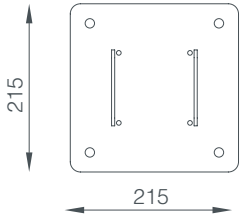
FRONT GUTTER



CROSSBEAM

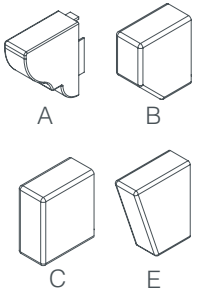


PILLAR



MOUNTING FOOT

CAPITALS //



ATRIUM // DOUBLE FORM

		type **stretched fabric - assembled** (up to L: max 700 cm)					type **stretched canvas - not assembled***			
WIDTH		**500**	**550**	**600**	**650**	**700**	**750**	**800**	**850**	**900**
PROJECTION	**500**									
	600									
	700									
	800									
	900									
	1000									
	1100									
	1200									
	1300									

ADDITIONAL ELEMENTS

outdoor LED system									
Watt average values	63	69,3	75,6	81,9	88,2	94,5	100,8	107,1	113,4

CONTROL FUNCTIONS & OPTIONALS

double Secure Box Motor (single and double form)					pc.
remote control Situo 5 IO					pc.
dimmable lights receiver IO - max 500 W					pc.
driver 24 V	up to 80 W	up to 150 W	up to 240 W	up to 320 W	up to 600 W
other remote controls and / or sensors see related page					

(*) It is recommended to use Fabric Stretching Tool. For prices and information, contact the sales office.

ATRIUM // TRIPLE FORM

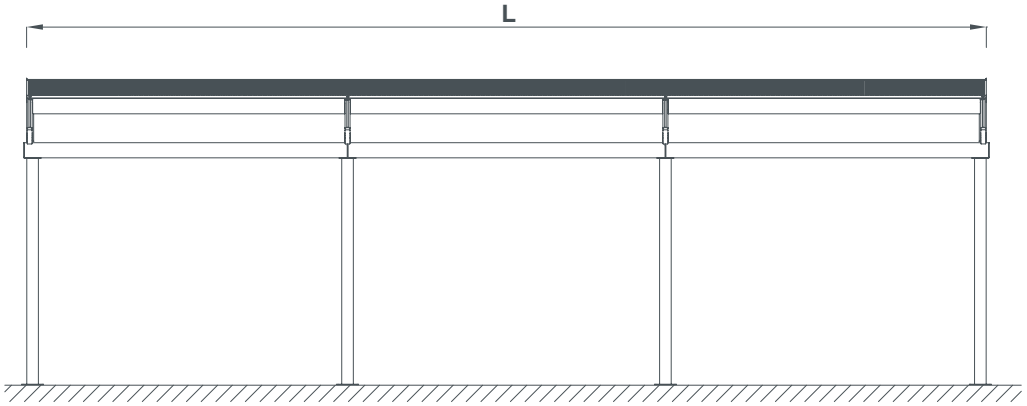
To manage storm water runoff:
see slopes table page 193

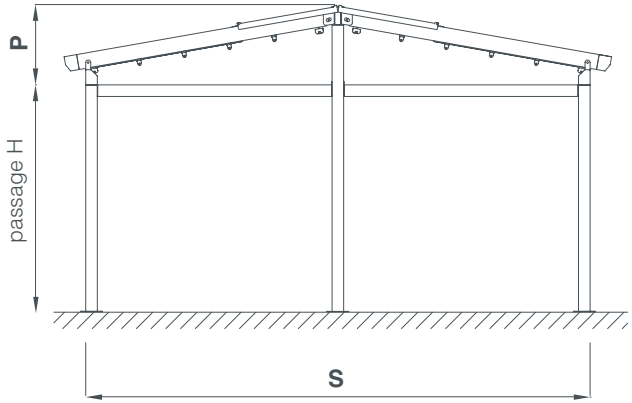
Wind resistance:
UNI EN 13561.2015:
class 3
(corresponding to grade six on the Beaufort scale)

Watertightness:
25 l / h per sqm.

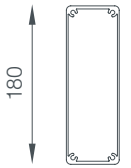
L	width
S	projection
P	slope

L	max total width triple form	1300 cm
S	max projection totale	1300 cm
P	slope	

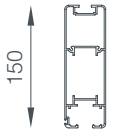




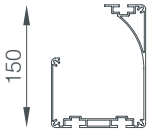
TECHNICAL DETAILS // STANDARD



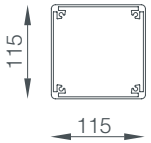
MOUNTING BEAM



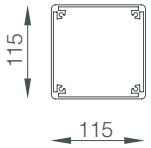
SLIDING GUIDE



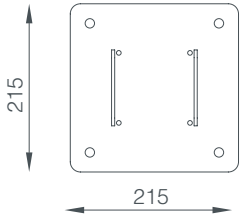
FRONT GUTTER



CROSSBEAM

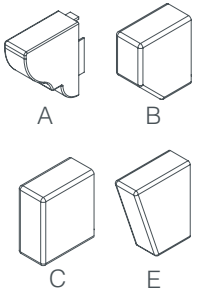


PILLAR



MOUNTING FOOT

CAPITALS //



ATRIUM // TRIPLE FORM

type **stretched canvas - not assembled***

WIDTH		950	1000	1050	1100	1150	1200	1250	1300
PROJECTION	500								
	600								
	700								
	800								
	900								
	1000								
	1100								
	1200								
	1300								

ADDITIONAL ELEMENTS

outdoor LED system.

Watt average values	119,7	126	132,3	138,6	144,9	151,2	157,5	163,8

CONTROL FUNCTIONS & OPTIONALS

double Secure Box Motor (single and double form)					pc.
remote control Situo 5 IO					pc.
dimmable lights receiver IO - max 500 W					pc.
driver 24 V	up to 80 W	up to 150 W	up to 240 W	up to 320 W	up to 600 W
other remote controls and / or sensors see related page					

(*) It is recommended to use Fabric Stretching Tool. For prices and information, contact the sales office.

ATRIUM // CANVAS OVERALL DIMENSION

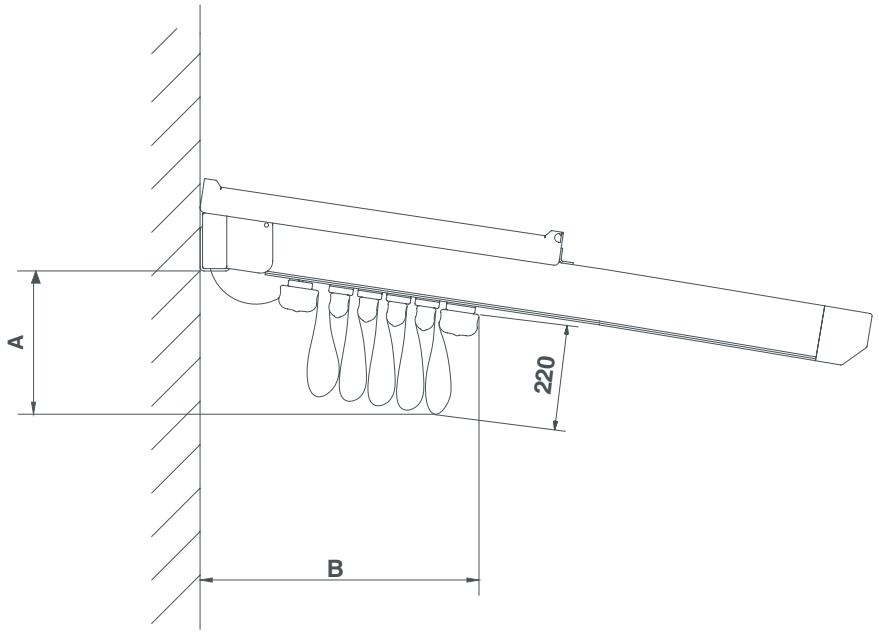


TABLE - CANVAS OVERALL DIMENSION //

		TOTAL NUMBER CANVAS PROFILE											
		4	5	6	7	8	9	10	11	12	13	14	
PROJECTION	200	27.1											A
	250		27.7										
	300			28.4									
	350				29								
	400					29.7							
	450						30.2						
	500							30.9					
	550								31.5				
	600									31.9			
	650										32.7		
	700											33.4	
		42.5	47.6	52.7	57.7	62.8	67.8	72.9	78.0	83.0	88.1	93.2	B

* The table figures are in cm and show the overall dimensions of folded canvas with slope reference of 15%. The values are to be considered purely indicative.

ATRIUM // SLOPES

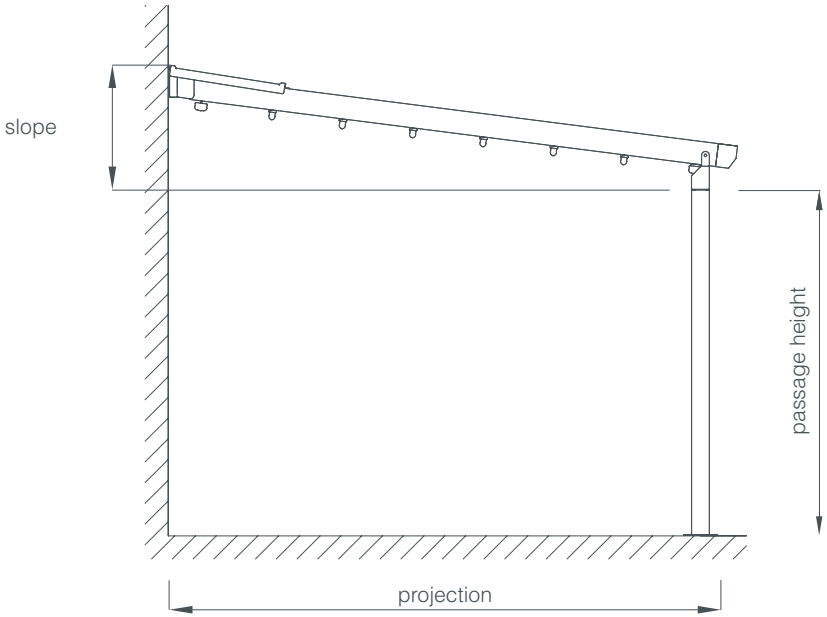


TABLE - SLOPES //

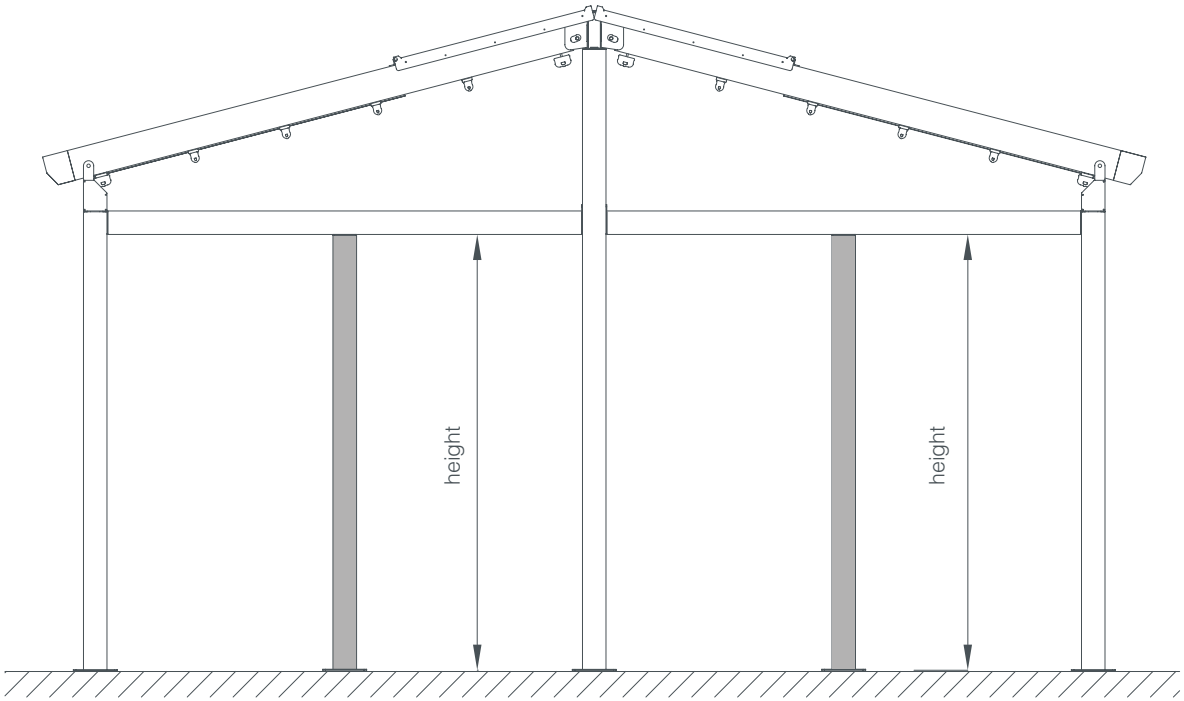
	INTERAXIS	200	250	300	350	400	450	500
	ADVISED SLOPE	8%	9,5%	11,5%	13,5%	15%	17%	19%
PROJECTION	200	54	57	61	65	68	72	76
	250	58	61	66	71	75	80	85
	300	62	66	72	78	83	89	95
	350	66	71	78	85	90	97	104
	400	70	76	84	92	98	106	114
	450	74	80	89	98	105	114	123
	500	78	85	95	106	113	123	133

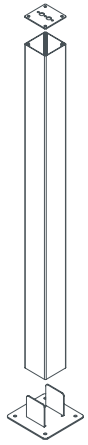
* The table figures are in cm and show the requirement for front drainage of rainwater.
* In the case of awnings with multiple forms always refer to the form with wider interaxis.
* Values inclusive of overall dimensions gutter+roof+wall beam (31)

Slope (the slope includes protection roof dimensions + mounting wall dimensions + guide slope + dimensions gutter)

ATRIUM // OPTIONALS

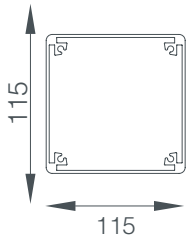
SIDE PILLAR //





	SIDE PILLAR
	H
HEIGHT	200
	250
	300
	350

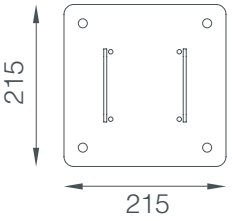
PILLAR SECTION



SIDE PILLAR

Stainless steel brackets treated with polyester powder coating.

FOOT SECTION

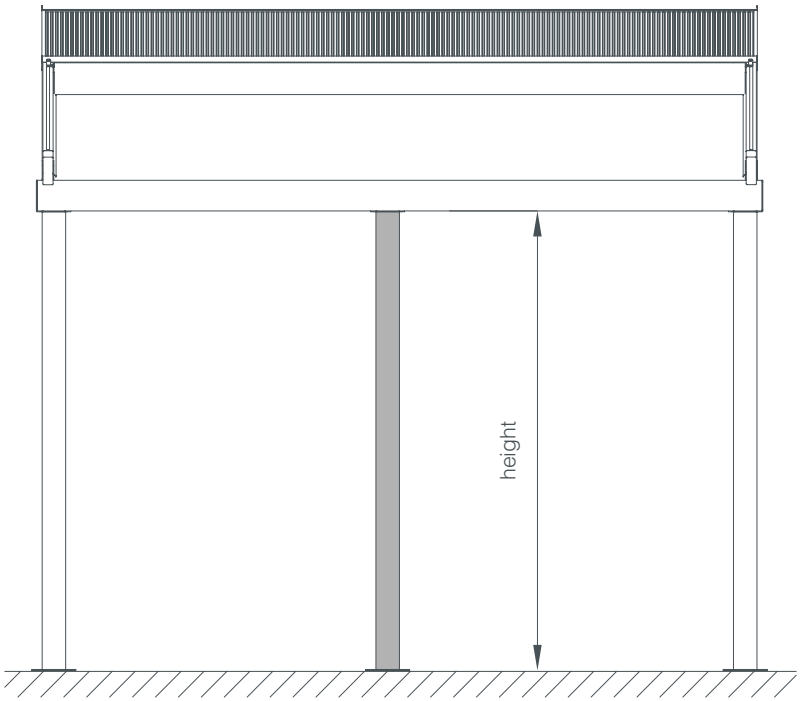


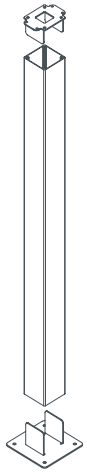
FOOT

Extruded aluminum profile with accessories and metalwork.

ATRIUM // OPTIONALS

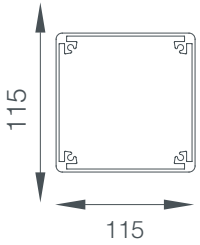
FRONT PILLAR //





FRONT PILLAR	
	H
HEIGHT	200
	250
	300
	350

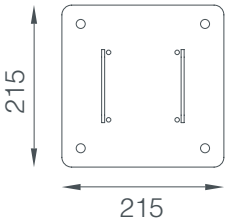
PILLAR SECTION



SIDE PILLAR

Stainless steel brackets treated with polyester powder coating.

FOOT SECTION

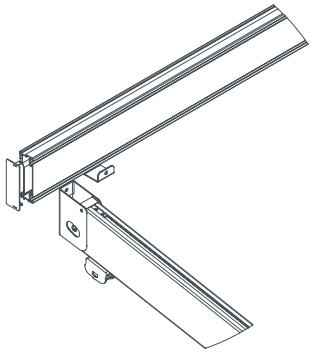


FOOT

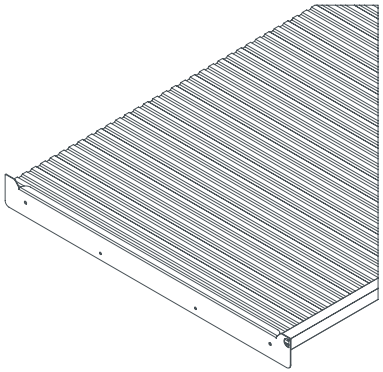
Extruded aluminum profile with accessories and metalwork.

ATRIUM // ELEMENTS

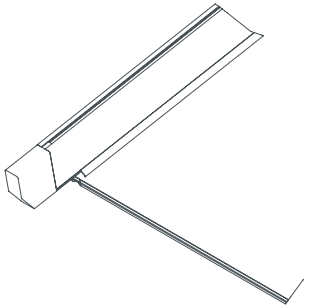
STANDARD ELEMENTS //



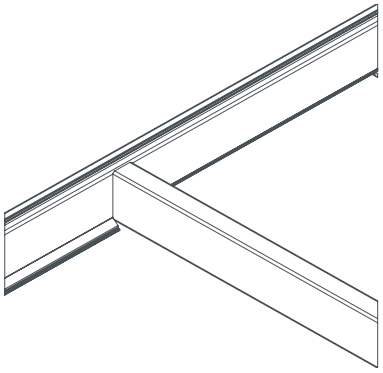
WALL BEAM
Extruded aluminum profile that allows wall anchorage fast and easy.



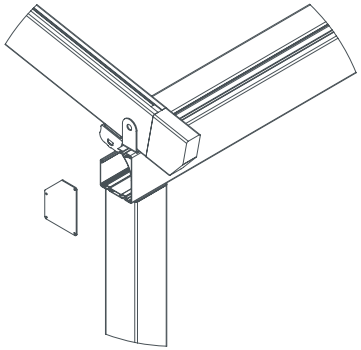
PROTECTION ROOF
Extruded aluminum slats and edging profiles with seal gasket.



DRIPLESS PROFILE
Aluminum profile with seal gasket to limit side infiltration of rainwater that might occur in the case of wind and rain.

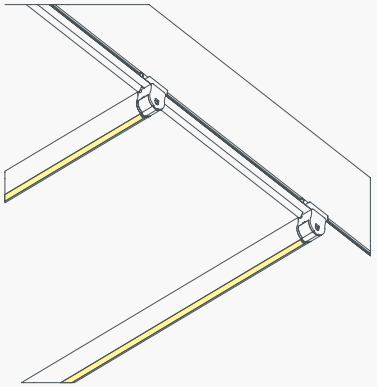


CROSSBEAM
Additional extruded aluminum profile, to support the protection roof.

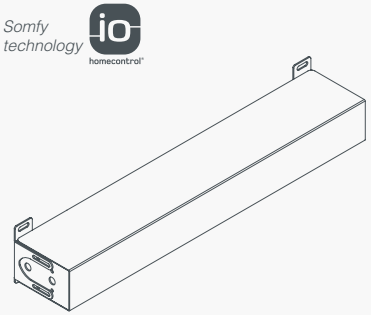


BUILT-IN GUTTER
Extruded aluminum profile to collect rainwater with direct discharge into the pillars.

ADDITIONAL ELEMENTS //



LED LIGHTING
Outdoor LED system is the patented LED lighting, applied on the intermediate profiles.
see related pages



IO MOTOR CONTROL
Electronic tubular motor for sliding and tensioning the awning fabric supplied in a protective box, Secure Box in stainless steel.

OUTDOOR LED SYSTEM

BREVETTATO
PATENTED

OUTDOOR LED SYSTEM is a patented LED light source, a new concept of light that spread over the length of the intermediate profile built-in in the pergola, The power cable are hidden in the canvas to ensures a perfect aesthetic result a clean smooth continuous and homogeneous lighting.
OUTDOOR LED SYSTEM is a decorative and versatile solution to enhance the sets of outdoor ambiance.

Models suitable for
OUTDOOR LED SYSTEM

OUTDOOR LED SYSTEM

Visible spectrum of color temperatures

OUTDOOR LED SYSTEM 3000 K

Color:	**Warm Light**
Degrees Kelvin:	3000K
Lumen:	400 lumen/mt
IP Rating:	IP65
Power / Voltage:	12,6W/m ~ 24V

OUTDOOR LED SYSTEM 6000 K

Color:	**Luce Fredda**
Degrees Kelvin:	6000K
Lumen:	400 lumen/mt
IP Rating:	IP65
Power / Voltage:	12,6W/m ~ 24V

TABLE VOLT/WATT

transformer	24V up to 80W	24V up to 150W	24V up to 240W	24V up to 320W	24V up to 600W

TABLE WATT

dimmable light receiver IO	maximum 500 Watt / cd.

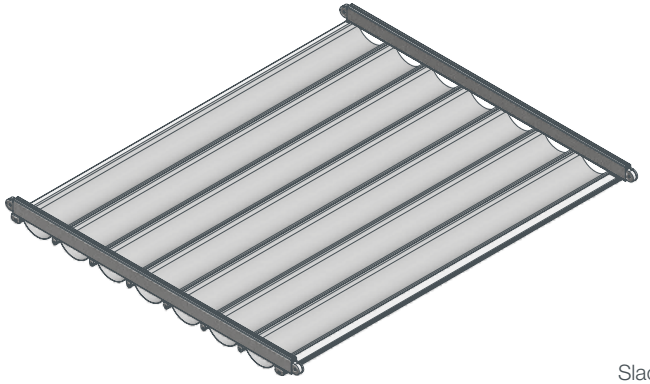
TABLE AVERAGE VALUE WATT/LUMEN

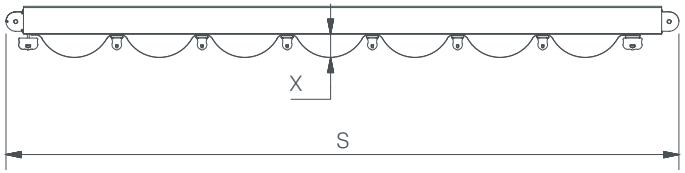
LENGTH LED TUBE	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300
Watt/ML																							
Lumen/ML																							

CANVAS SLACK TYPES //

The pergolas models can be manufactured on request with slack canvas with **slack canvas** in the fololowing versions:

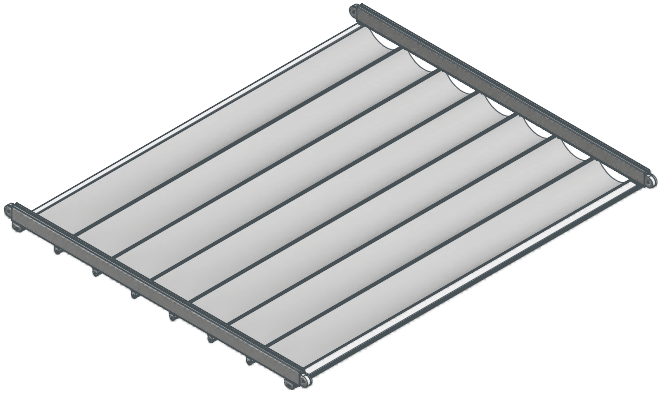
type
slack canvas parallel

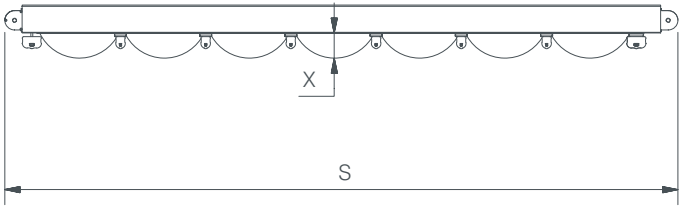




Slack canvas parallel (right and left) is an inappropriate water drainage solution

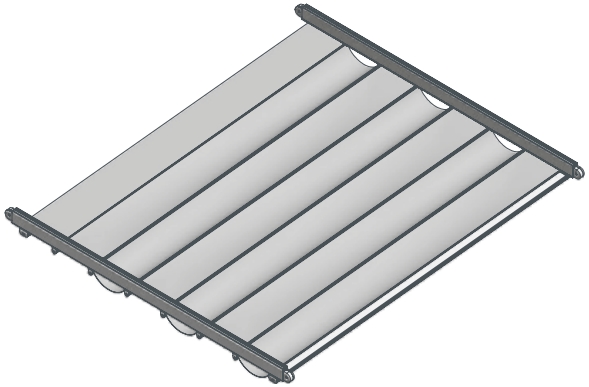
type
slack canvas lateral

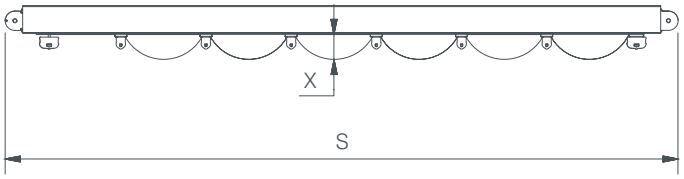




Water drainage only from one side (right or left))

type
slack canvas alternated





Water discharge in alternating layers on both side, right and left

SP	type **slack canvas parallel**		
	single form	**double form**	**triple form**
200			
250			
300			
350			
400			
450			
500			
550			
600			
650			
700			

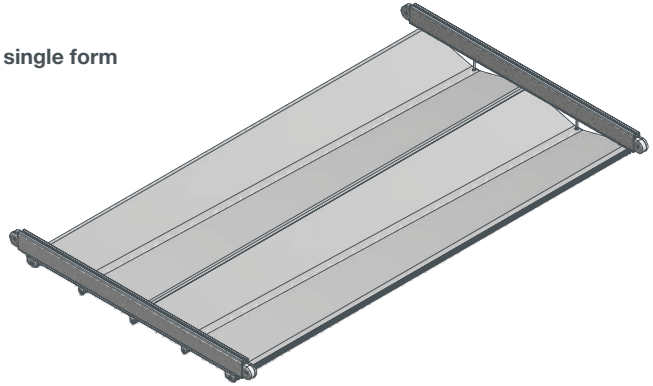
SP	type **slack canvas lateral**		
	single form	**double form**	**triple form**
200			
250			
300			
350			
400			
450			
500			
550			
600			
650			
700			

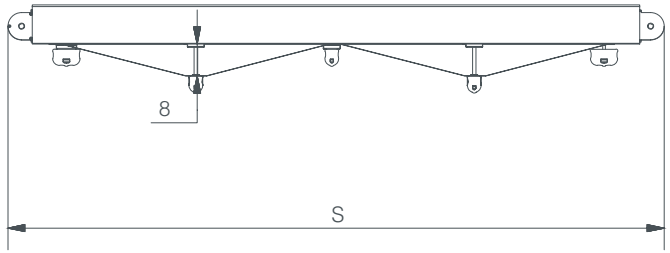
SP	type **slack canvas alternated**		
	single form	**double form**	**triple form**
200			
250			
300			
350			
400			
450			
500			
550			
600			
650			
700			

CANVAS "V" ALTERNATE TYPES //

The pergolas models can be made on request, with **stretched canvas** in the following versions:

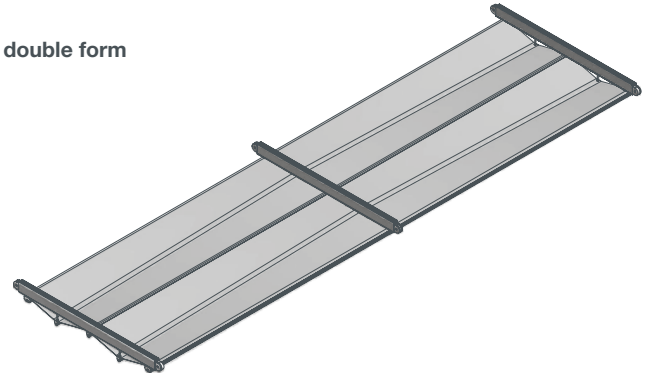
type
stretched fabric "V" alternate single form
(one side only)

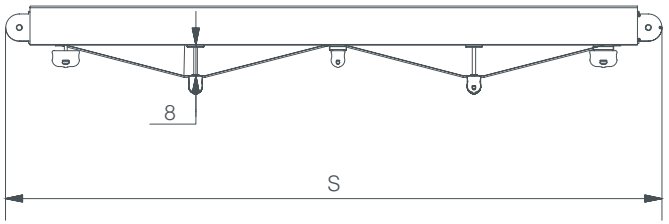




Water drainage only from one side (right or left)

type
stretched fabric "V" alternate double form
(both side)





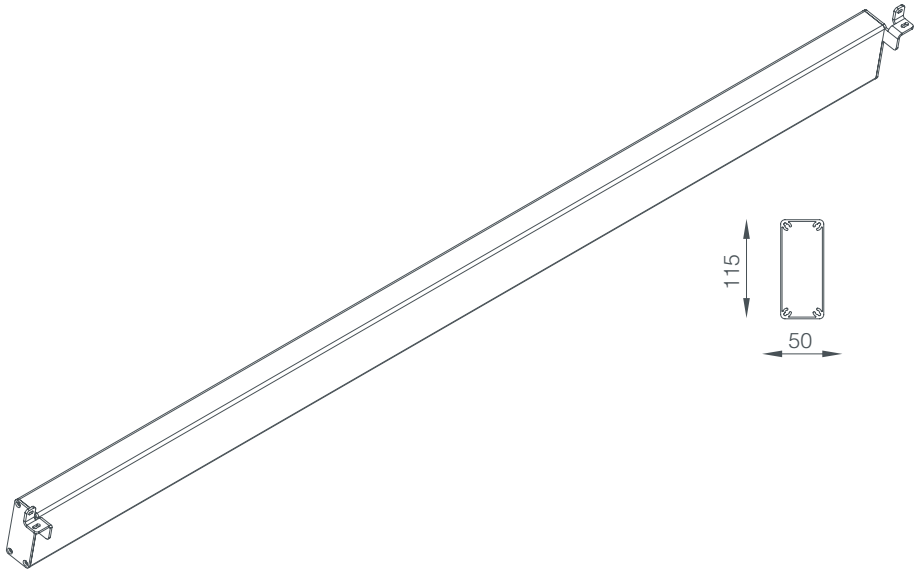
Water discharge in alternating layers on both side, right and left

SP	type **stretched fabric "V" alternate single form**							additional start/end profiles
	200	250	300	350	400	450	500	
200								
250								
300								
350								
400								
450								
500								
550								
600								
650								
700								

SP	type **stretched fabric "V" alternate double form**									additional start/end profiles
	500	550	600	650	700	750	800	850	900	
200										
250										
300										
350										
400										
450										
500										
550										
600										
650										
700										

CROSSBEAM // 115x50 mm

Additional extruded aluminum profile to support of the protection roof.



SINGLE FORM							
LENGTH	200	250	300	350	400	450	500

DOUBLE FORM									
LENGTH	500	550	600	650	700	750	800	850	900

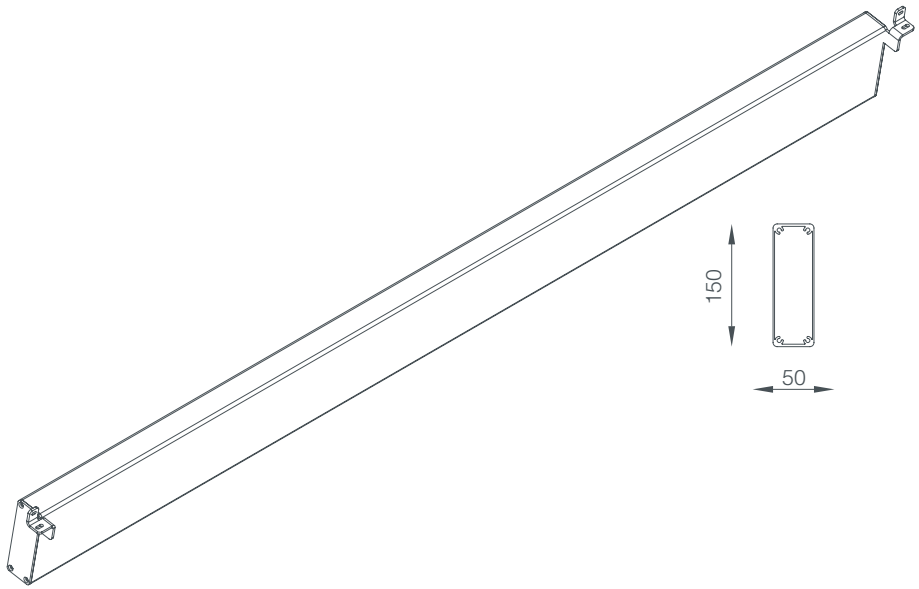
TRIPLE FORM								
LENGTH	950	1000	1050	1100	1150	1200	1250	1300

TABLE - CROSSBAR IDENTIFICATION

MODEL	115x50	150x50
compakt	•	
even		•
flexia	•	
fly	•	
fusion		•
majestic		•
quick		•
skylight		•
star		•
tendal	•	

CROSSBEAM // 150x50 mm

Additional extruded aluminum profile to support of the protection roof.



SINGLE FORM							
LENGTH	200	250	300	350	400	450	500

DOUBLE FORM									
LENGTH	500	550	600	650	700	750	800	850	900

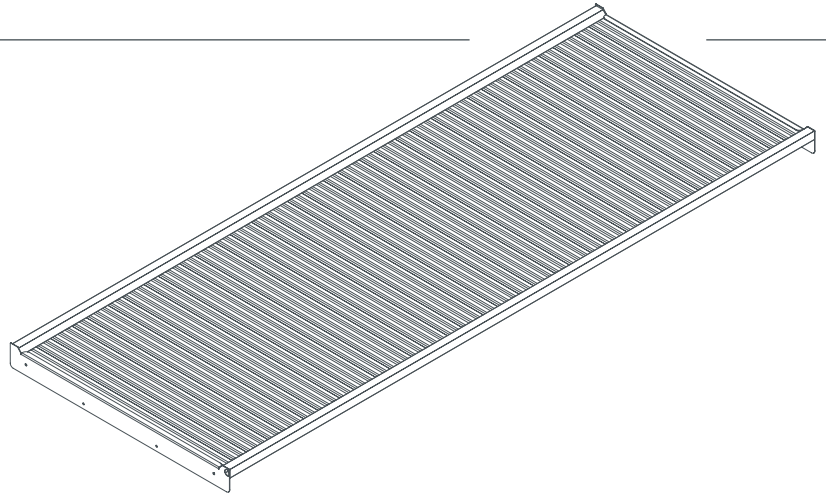
TRIPLE FORM								
LENGTH	950	1000	1050	1100	1150	1200	1250	1300

TABLE - CROSSBAR IDENTIFICATION

MODEL	115x50	150x50
compakt	•	
even		•
flexia	•	
fly	•	
fusion		•
majestic		•
quick		•
skylight		•
star		•
tendal	•	

PROTECTION ROOF

The protection Roof protect the awning fabric from atmospheric agents and prevent the formation of water pockets. Made of extruded aluminum slats and edging profiles with seal gasket.



SINGLE FORM

WIDTH		200	250	300	350	400	450	500
PROJECTION								
up to cm 350	h 75							
from 351 to 700 cm	h 100							

DOUBLE FORM

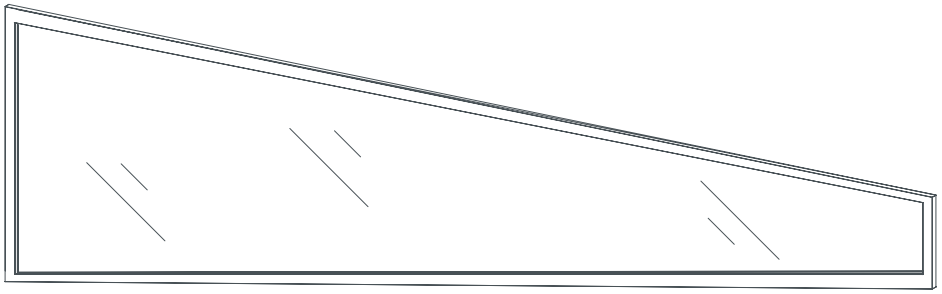
WIDTH		500	550	600	650	700	750	800	850	900
PROJECTION										
up to cm 350	h 75									
from 351 to 700cm	h 100									

TRIPLE FORM

WIDTH		950	1000	1050	1100	1150	1200	1250	1300
PROJECTION									
up to cm 350	h 75								
from 351 to 700 cm	h 100								

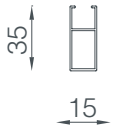
GABLE //

CRISTAL



Gable for the closure of side triangular opening, made with perimeter aluminum profile and Crystal film or PVC fabric. Available in the colors of our collection.

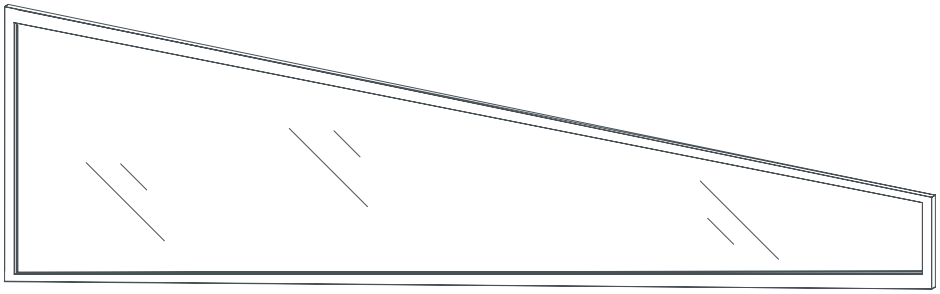
PROFILE SECTION



Extruded aluminum profile with accessories and metalwork.

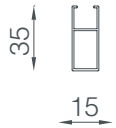
WIDTH	200	250	300	350	400	450	500	550	600	650	700
HEIGHT 60											
80											
100											
120											
140											

POLICARBONATE



Gable for the closure of side triangular opening, made with perimeter aluminum profile and compact polycarbonate sheet.
Available in transparent, opal and smoky colors.

PROFILE SECTION



Extruded aluminum profile with accessories and metalwork.

WIDTH	200	250	300	350	400	450	500	550	600	650	700
HEIGHT 60											
80											
100											
120											
140											

CONTROL FUNCTIONS //

SITUO 1 IO - single-channel
Single-channel remote control
with individual or group control
function.
Supplied with wall support

SITUO 5 IO - 5 channels
5 channels remote control with
local control or group control
function.
Supplied with wall support.

NINA
multi-channel touch screen remote
control and home automation
for the different devices.
Integrable with remote controls
Situo 1 IO and / or Situo 5 IO.

EOLIS WIREFREE IO
Wind sensor
Wirefree sensors IO battery powered.
Freedom of installation on the facade.

LIGHTING RECEIVER
VARIATION IO
dimmable lights receiver for a LED lighting
system.
Integrable with other IO devices.
Maximum power 500 W each.

Kit equipped with Rain sensor for detecting rainfall,
combined with the IO contact dry transmitter.

COATING

Our profiles have a chromatic mark, connected to the nature of places and in harmony with the architectural contexts, with distinctive feature of high quality. The coating of our profiles takes place three cycles:

> Chemical pre-treatment process to the raw aluminum profile for perfect finish and long lasting protection;

> Application of polyester powder using automatic electrostatic spray guns;

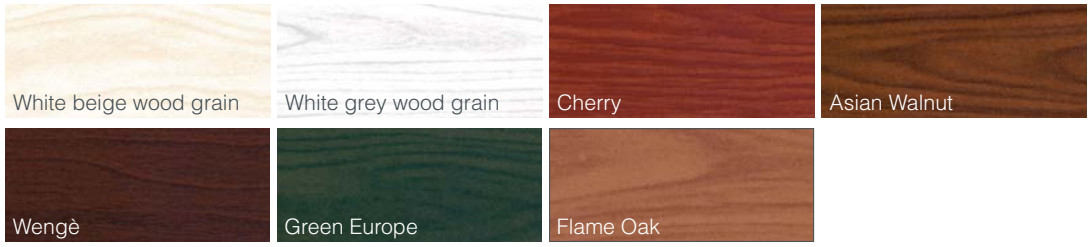
> Curing conditions at 200° to get an extra strong final coating, increasing the mechanical characteristics of the profile.

COATING STANDARD //

SPECIAL COATING //

The wood-grain effect is a coating that faithfully reproduce main essences of wood

COATING WOOD GRAIN EFFECT //



The reproductions of the coatings are indicative.

rev. 23/07/2018

Dirello
ITALIAN OUTDOOR DESIGN

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by

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SCAN ME