

# **MCA** Shading Systems Retractable Awnings

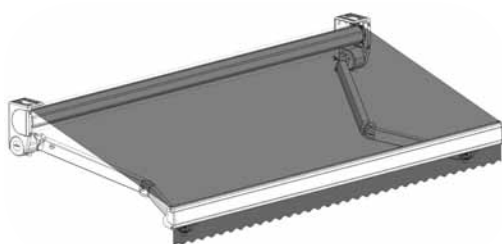


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# IBIZA

Awnings with retractable arms



## Technical details

- Arms with spring and steel cable
- Recommended dimensions  
LxP: 4x2,5 m  
L = length, P = projection
- Degree of inclination: 0-90 °



# IBIZA

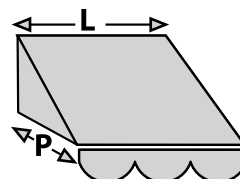
## Awnings with retractable arms



- **The main advantage offered by IBIZA retractable arms awnings is that they allow the unimpeded circulation underneath.** They are equally recommended for commercial and residential areas. Ibiza awnings can be used for terraces, windows and street storefronts.
- MCA awnings are tested and certified for **wind and water resistance** in accordance with the European standards so that our clients would know for a fact they have access to high quality and safe products.
- The special design, the sturdiness and the stainless components lead to a medium functioning period of over 15 years.
- **The retractable arms** are realized from aluminum profiles, painted in electrostatic field. Each of their articulation contains an inner spring coated in a soundproofing fabric for a silent and gentle functioning. All the components are stainless. The connection between the two main components of each arm is realized through a galvanized steel cable, coated in plastic.
- The **canvas** is realized from a high technology textile fabric, with 3 layers, offering a dense shadow and ensuring an efficient UV and rain protection.
- The **recommended dimensions** are of maximum 4 x 2.5 m (length x projection).
- **The system can be operated** manually, with a crank, or electrically, by remote control. Electric systems can be endowed with light, wind and rain sensors, which will trigger the awnings to close automatically, reducing the risk of deterioration.

**EN: 13561:2004 - Wind resistance**

**EN: 11933:1999 - Water resistance**



1,50	2,00	2,50	3,00	3,50	4,00	L / P	
IM	IM	IM	2	2	2	2,50	class zero (was not tested)
IM	IM	IM	2	2	2	2,25	class 1
IM	IM	2	2	2	2	2,00	class 2
IM	IM	3	3	3	3	1,75	class 3
IM	3	3	3	3	3	1,50	impossible
IM	2	2	2	2	2	1,25	
3	3	3	3	3	3	1,00	
2	2	2	2	2	2		

Wind resistance		
Class	Maximum wind velocity	Force
1	28 Km/h	40 N/m <sup>2</sup>
2	38 Km/h	70 N/m <sup>2</sup>
3	49 Km/h	110 N/m <sup>2</sup>

Water resistance	
Class	Water resistance
1	17 L / m <sup>2</sup> x h
2	56 L / m <sup>2</sup> x h



# MONACO

Awnings with retractable arms and flexible fixing system



## Technical details

- Arms with spring and chain
- Fixing on the wall in variable points
- Recommended dimensions  
LxP: 6x3 m / 5x3,5 m  
L = length, P = projection
- Degree of inclination: 0-80 °







# ATHENA

Awnings with retractable arms and protection box



## Technical details

- Protection box system
- Arms with spring and chain
- Recommended dimensions  
LxP: 6x3 m  
L = length, P = projection
- Maximum inclination: 77 °



# ATHENA

## Awnings with retractable arms and protection box

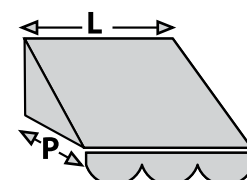


- **The main advantage** offered by ATHENA awnings is represented by its **design with a box included**. When the awnings are retracted, the textile fabric and the arms are being closed in a box, being protected from the rain and the weather's fastidiousness. **The arms do not restrain the space under the awnings** so they are recommended for commercial areas as well as for residential areas. Athena awnings can be used for shading terraces, windows and public spaces.
- MCA awnings are tested and certified for **wind and water resistance** in accordance with the European standards so that our clients would know for a fact they have access to high quality and safe products.
- **Retractable arms** are realized from aluminum profiles, painted in electrostatic field. Each of their articulation contains an inner spring coated in a soundproofing fabric for a silent and gentle functioning. All the components are stainless. The connection between the two main components of each arm is realized through a chain, offering a greater durability and reliability.
- **The canvas** is realized from a high technology textile fabric, with 3 layers, offering a dense shadow and ensuring an efficient UV and rain protection.
- **The recommended dimensions** are of maximum 6 x 3 m (length x projection).
- **The system can be operated** manually, with a crank, or electrically, by remote control. Electric systems can be amended with accessories like light, wind and rain sensors, which will trigger the awnings to close automatically, reducing the risk of deterioration.

### EN: 13561:2004 - Wind resistance

### EN: 11933:1999 - Water resistance

2,00	2,50	3,00	3,50	4,00	4,50	5,00	5,50	6,00	L / P
IM	IM	IM	IM	1*	1*	1*	1*	1*	3,25
IM	IM	IM	IM	2*	2*	2*	2*	2*	3,00
IM	IM	IM	2	2	2	2	2*	2*	2,75
IM	IM	IM	2	2	2	2	2*	2*	2,50
IM	IM	IM	2	2	2	2	2*	2*	2,25
IM	IM	3	3	3	3	2	2*	2*	2,00
IM	IM	2	2	2	2	2	2*	2*	1,75
IM	IM	3	3	3	3	3	2*	2*	1,50
IM	IM	2	2	2	2	2	2*	2*	
IM	3	3	3	3	3	3	2*	2*	
IM	2	2	2	2	2	2	2*	2*	
3	3	3	3	3	3	3	2*	2*	
2	2	2	2	2	2	2	2*	2*	



- class zero (was not tested)
- class 1
- class 2
- class 3
- impossible

\* fixare cu suport central

Wind resistance		
Class	Maximum wind velocity	Force
1	28 Km/h	40 N/m <sup>2</sup>
2	38 Km/h	70 N/m <sup>2</sup>
3	49 Km/h	110 N/m <sup>2</sup>

Water resistance	
Class	Water resistance
1	17 L / m <sup>2</sup> x h
2	56 L / m <sup>2</sup> x h



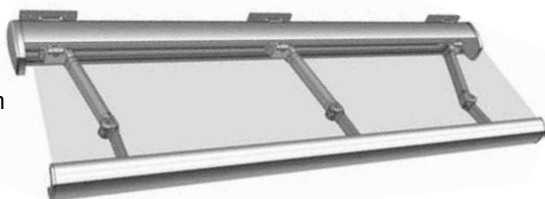
# NEPTUN

Awnings with three retractable arms and a protection box



Maximum length of a module **7 m**

Maximum projection  
of a module **4 m**



## Technical details

- Protection box system
- Arms with spring and chain
- Maximum dimensions

LxP: 7x4 m

L = length, P = projection



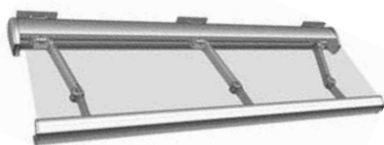
# NEPTUN

Awnings with three retractable arms and a protection box



- **The main advantage of NEPTUN** awnings is that they allow a **maximum range of dimensions of 21 x 4 m (L x P)**, which can be achieved through combining 3 modules of 7 x 4 m (L x P). The is designed to secure the textile fabric and the arms when the awnings are retracted. **The retractable arms allow the unimpeded circulations underneath.** They are equally recommended for commercial and residential areas. Ibiza awnings can be used for terraces, windows and street storefronts.
- **The retractable arms** are realized from aluminum profiles, painted in electrostatic field. Their articulations contain an inner spring coated in a soundproofing fabric for a silent and gentle functioning. All the components are stainless. The connection between the two main components of each arm is realized through a chain, offering a greater durability and reliability.
- **The canvas** is realized from a high technology textile fabric, with 3 layers, offering a dense shadow and ensuring an efficient UV and rain protection.
- **The recommended dimensions** are of maximum 7 x 4 m (length x projection).
- **The system is operated** electrically, by remote control. Electric systems can be endowed with light, wind and rain sensors, which will trigger the awnings automatically, reducing the risk of deterioration.

**NEPTUN Awning**  
module 7x4m (LP)



**NEPTUN awnings retractable arm**



## EN: 13561:2004 - Wind resistance

## EN: 11933:1999 - Water resistance

4,00	4,50	5,00	5,50	6,00	6,50	7,00	L P	
IM	IM	IM	1	1	1	1		
IM	IM	IM	1	1	1	1	4,50	
IM	IM	2	2	2	2	2		
IM	IM	2	2	2	2	2	4,00	
IM	2	2	2	2	2	2		
IM	2	2	2	2	2	2	3,50	
2	2	2	2	2	2	2		
2	2	2	2	2	2	2	3,00	

IM class zero  
(was not tested)  
1 class 1  
2 class 2  
3 class 3  
IM impossible

### Wind resistance

Class	Maximum wind velocity	Force
1	28 Km/h	40 N/m <sup>2</sup>
2	38 Km/h	70 N/m <sup>2</sup>
3	49 Km/h	110 N/m <sup>2</sup>

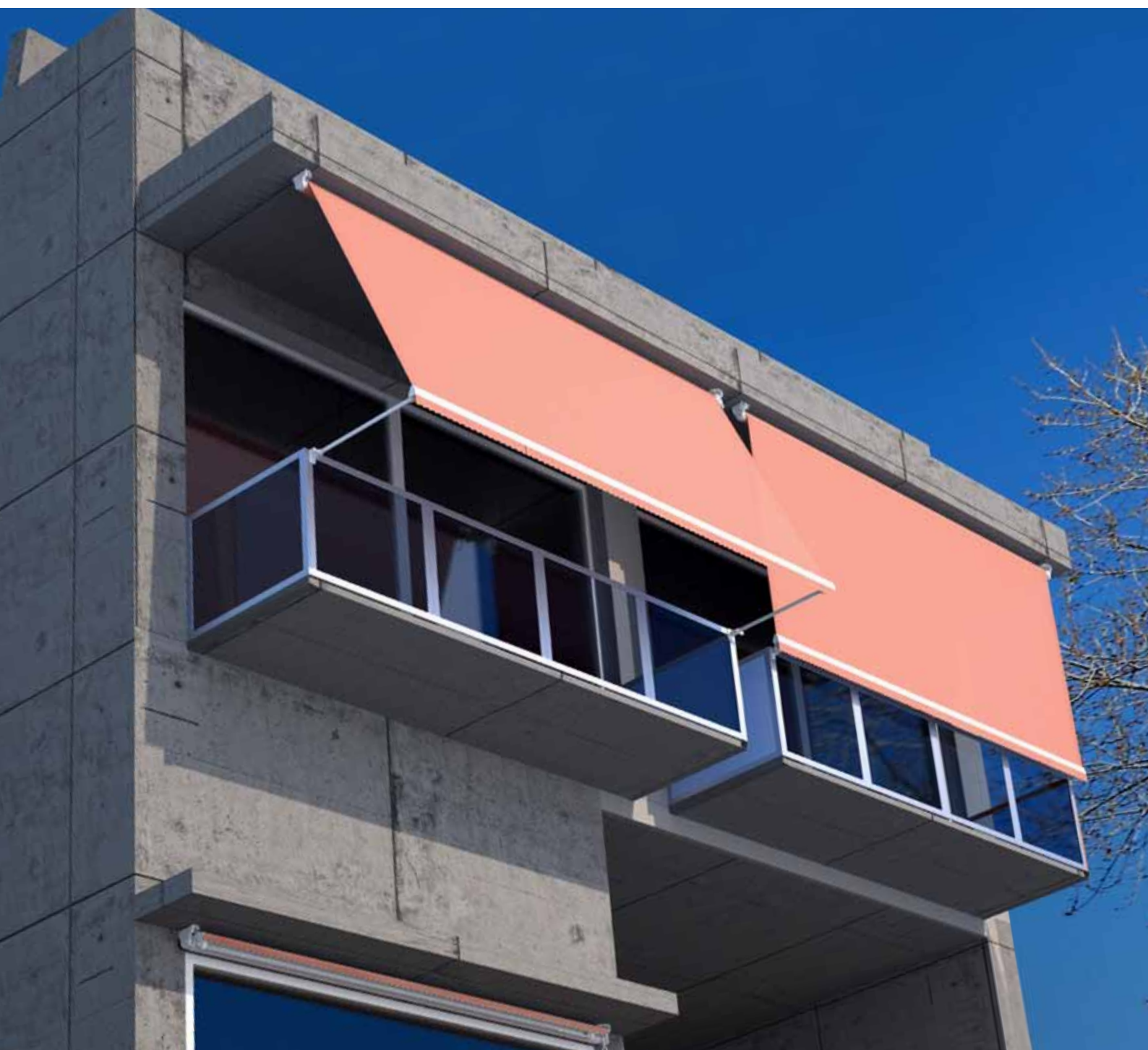
### Water resistance

Class	Water resistance
1	17 L / m <sup>2</sup> x h
2	56 L / m <sup>2</sup> x h



# SOL

Awnings for balconies, with fix arms



## Technical details

- Fix arms, with no springs
- Maximum recommended length  $L = 6\text{ m}$
- Manual operation

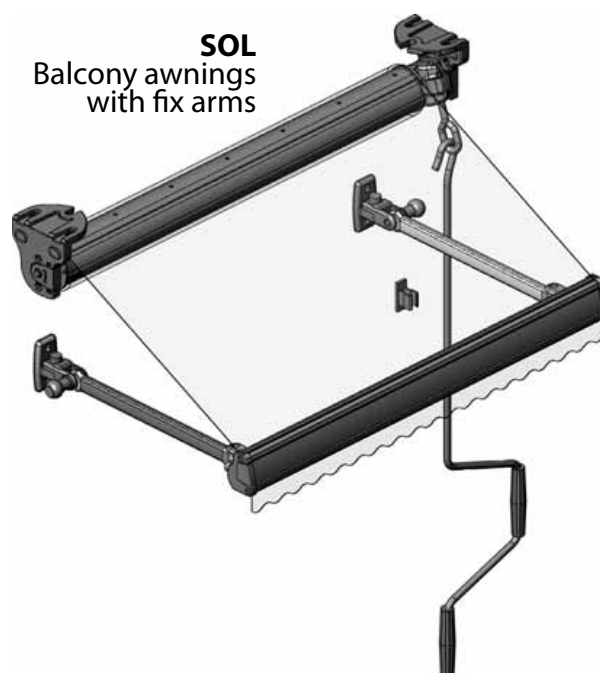


# SOL

## Awnings for balconies, with fix arms

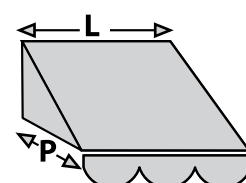


- **SOL** awnings, with fix arms, have been created to efficiently shade balconies. Their arms are utilized to fix the textile fabric on to the base of the balconies.
- **The quantity of light** entering the balcony can be controlled by folding the arms on the base of the awning.
- MCA awnings are tested and certified for **wind and water resistance** in accordance with the European standards so that our clients would know for a fact they have access to high quality and safe products.
- **The arms** are made of aluminum profiles, painted in electrostatic field. The materials used are stainless, to ensure a very long resistance in time of the products.
- SOL awnings **can be fixed** either on the wall or on the ceiling.
- **The canvas** is realized from a high technology textile fabric, with 3 layers, offering a dense shadow and ensuring an efficient UV and rain protection.
- **The maximum dimensions** are of 6 x 3.5 m (length x height).
- The system has a manual crank drive.



### EN: 13561:2004 - Wind resistance

1,50	2,00	3,00	4,50	5,00	6,00	$\frac{L}{p}$
3	3	3	3	3	3	0,50



Wind resistance		
Class	Maximum wind velocity	Force
1	28 Km/h	40 N/m <sup>2</sup>
2	38 Km/h	70 N/m <sup>2</sup>
3	49 Km/h	110 N/m <sup>2</sup>

- class 1
- class 2
- class 3
- class zero (was not tested)
- impossible



# LUNA

Awnings with curved arms



## Technical details

- 3 types of rocker arms, depending on the spring's resistance
- Maximum tested dimensions  
LxP: 6x1,5 m  
L = length, P = projection
- Degree of inclination: 10-170 °



- Curved arms awnings have been produced to be used for the windows without balconies. The amount of light that enters into the room is controlled easily due to the arms ability to move on a scale of 170°.
- MCA awnings are tested and certified for **wind resistance** in accordance with the European standards so that our clients would know for a fact they have access to high quality and safe products.
- The rocker arms** are made of aluminum profiles, painted in electrostatic field. The materials used are stainless, to ensure the best time resistance of the products.
- There are three types of arms varying on the force with which they stretch the textile fabric:
  - Luna 1** - arms without springs
  - Luna 2** - arms with tension springs in the fixing supports on the wall
  - Luna 3** - arms with tension springs inside
- The canvas** is realized from a high technology textile fabric, with 3 layers, offering a dense shadow and ensuring an efficient UV and rain protection.
- The recommended dimensions** are of maximum 6 x 1.5 m (length x projection).
- The system can be operated** manually with a crank or electrically, by remote control. Electric systems can be endowed with light, wind and rain sensors, which will trigger the awnings automatically, reducing the risk of deterioration.

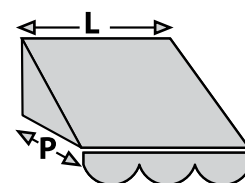
### EN: 13561:2004 - Wind resistance

#### Luna 1

1,50	2,00	3,00	4,50	5,00	6,00	L/P
3	3	3	3	3	3	1,50
3	3	3	3	3	3	1,40
3	3	3	3	3	3	1,30
3	3	3	3	3	3	1,20
3	3	3	3	3	3	1,10
3	3	3	3	3	3	1,00
3	3	3	3	3	3	0,90
3	3	3	3	3	3	0,80
3	3	3	3	3	3	0,70

#### Luna 2 and Luna 3

1,50	2,00	3,00	4,50	5,00	6,00	L/P
3 <sup>1</sup>	3 <sup>1</sup>	3 <sup>1</sup>	3 <sup>1</sup>	3 <sup>1</sup>	3 <sup>1</sup>	1,50
3 <sup>1</sup>	3 <sup>1</sup>	3 <sup>1</sup>	3 <sup>1</sup>	3 <sup>1</sup>	3 <sup>1</sup>	1,40
3 <sup>1</sup>	3 <sup>1</sup>	3 <sup>1</sup>	3 <sup>1</sup>	3 <sup>1</sup>	3 <sup>1</sup>	1,30
3	3	3	3	3	3	1,20
3	3	3	3	3	3	1,10
3	3	3	3	3	3	1,00
3	3	3	3	3	3	0,90
3	3	3	3	3	3	0,80
3 <sup>2</sup>	3 <sup>2</sup>	3 <sup>2</sup>	3 <sup>2</sup>	3 <sup>2</sup>	3 <sup>2</sup>	0,70
3 <sup>2</sup>	3 <sup>2</sup>	3 <sup>2</sup>	3 <sup>2</sup>	3 <sup>2</sup>	3 <sup>2</sup>	0,60



Wind resistance		
Class	Maximum wind velocity	Force
1	28 Km/h	40 N/m <sup>2</sup>
2	38 Km/h	70 N/m <sup>2</sup>
3	49 Km/h	110 N/m <sup>2</sup>

<sup>2</sup> only for Luna 2

<sup>3</sup> only for Luna 3

- class 1
- class 2
- class 3

- class zero  
(was not tested)
- impossible



# TERASA

Patio covers with a protection box



## Technical details

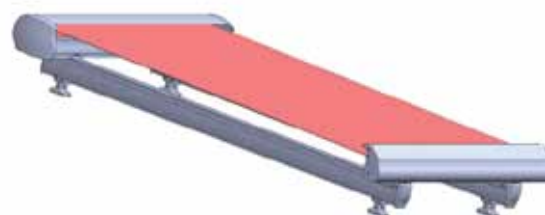
- Protection box system
- Maximum dimensions  
LxP: 5x6 m  
L = length, P = projection
- Minimum inclination : 15 °



# TERASA

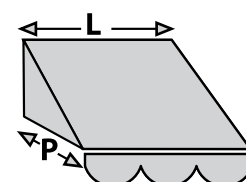
## Patio covers with a protection box

- TERASA retractable patio covers are used for shading terraces but also glass roofs. TERASA is destined to shade major surfaces of up to 30 mp.
- The pergolas' **maximum dimensions** are L x P: 5 x 6 m or 6 x 4 m (length x projection).
- **The modular structure** allows multiple installing options and can be joined with oval profiles of the Venus patio cover.
- **The profiles** are made from anodized aluminum, painted in white in a electrostatic field. The fabric is stretched with the help of two hydraulic pistons.
- **The box** protects the textile fabric when it is retracted.
- Similar to Venus patio cover system, TERASA **awnings can be delivered with or without the support stalks**, so the pergola can be fixed on a wall or on another existing structure. The joints allow many inclination options, but the minimum inclination degree is of 15°.
- The system is included in class 2 of **wind resistance** for all the possible dimensions.
- **The system is operated** electrically, by remote control. Electric systems can be endowed with light, wind and rain sensors, which will close the pergola automatically, reducing the risk of deterioration.



### EN: 13561:2004 - Wind resistance

1	2	3	4	5	6	L P
2	2	2	2	2	IM	6
2	2	2	2	2	IM	5
2	2	2	2	2	2	4
2	2	2	2	2	2	3
2	2	2	2	2	2	2,5



Wind resistance		
Class	Maximum wind velocity	Force
1	28 Km/h	40 N/m <sup>2</sup>
2	38 Km/h	70 N/m <sup>2</sup>
3	49 Km/h	110 N/m <sup>2</sup>

- class 1
- class 2
- class 3
- class zero (was not tested)
- impossible



# VENUS

Stylish retractable patio covers



## Technical Details

- Oval profiles with special design
- Modular system
- Can be made on any dimensions
- Can be adapted to other existing structures
- Manual or electrical operation



# VENUS

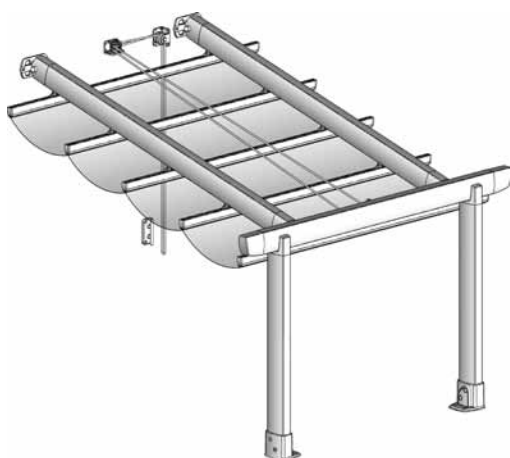
## Stylish retractable patio covers



- **Versatility, beauty, time resistance, reliability** - these are the main characteristics of Venus retractable patio covers. They are generally used for shading terraces, in residential areas or as part of a hotel or a restaurant area.
- **The modular structure** allows the shading of any surface, no matter the length or height.
- **The profiles** are made of anodized aluminum, painted in white in electrostatic field.
- Due to **the way the profiles can be joined** to one another, there are possible many variations of inclinations.
- **The system can be delivered with or without supporting stalks**, as long as the patio cover is fixed on the walls or on another existing structure.
- **The canvas** is realized from a high technology textile fabric, with 3 layers, offering a dense shadow and ensuring an efficient UV and rain protection. There are two ways in which the canvas can be made: from one piece of fabric or from two pieces of fabric overlapped, creating an air cushion which ensures a better insulation.
- **The system can be operated** manually, with a crank, or electrically, by remote control. Electric systems can be endowed with light, wind and rain sensors, which will close the patio cover automatically, reducing the risk of deterioration.

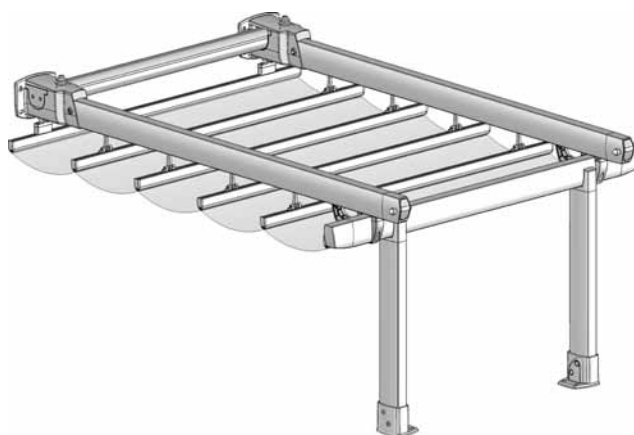
### VENUS patio cover,

Manual operation, inclined, one wall fixing



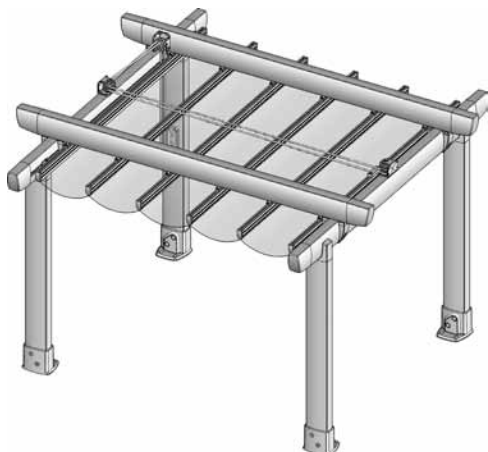
### VENUS patio cover,

Electric operation, no inclination, one wall fixing



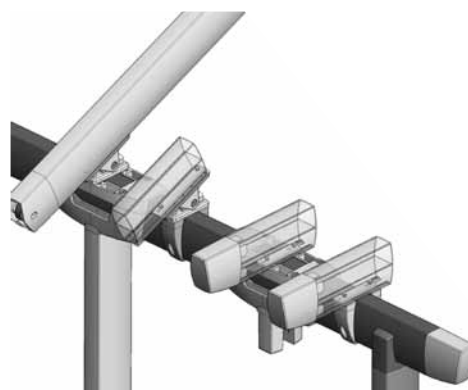
### VENUS patio cover,

Manual operation, with four supporting stalks



### VENUS patio cover,

Multiple inclination options





# BALI

Fix modular arbours, with different possible shapes





# BALI

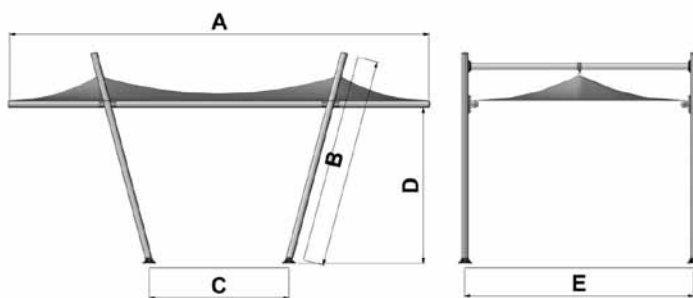
## Fix modular arbours, with different possible shapes



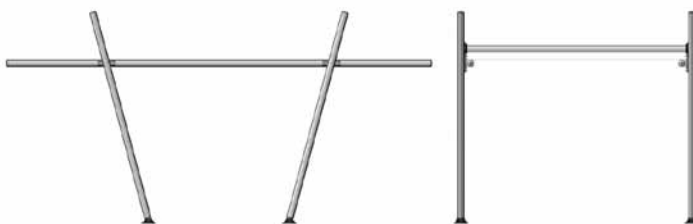
- **Beauty and utility:** these are the main principles of BALI arbours.
- BALI is an arbour realized from four stalks, two transversal bars and a textile canvas.
- **The profiles** are made from anodized aluminum, painted in white in a electrostatic field. **Their joints** allow many inclination options.
- **The canvas** is realized from a high technology textile fabric, with 3 layers, offering a dense shadow and ensuring an efficient UV and rain protection.
- **Anchor weights**, of 100 kg made of concrete, available on demand
- **European regulations met:**
  - UNE-EN 13782: temporary structures, textile materials, security
  - UNE-ENV 1991-2-4: class 1 – wind resistance
  - UNE-EN 1991-1-3: class 1 – snow load

### BALI,

Maximum dimensions, shapes,  
textile fabric stretching types



**A maximum: 6 m**  
**B maximum: 3 m**  
**C minimum: 2 m**  
**D minimum: 2,1 m**  
**E maximum: 3,28 m**



Interior shape; on the  
exterior follow the  
recommendation of realizing  
water draining gaps



Exterior shape, inclined  
for water drainage



# MCA professional solutions

Under the MCA name are over 15 years of experience, 120 people involved in the production and distribution activities and a continuous desire to improve.

The products offer is improved and extended with services for installation, technical consulting and specialized service.

The development strategy is directed towards the establishment of partnerships with architectural firms, construction and enterprises.

The products we can provide in terms of quality and good price with a short delivery time are:

- Sectional garage doors,
- Industrial sectional doors,
- Rolling shutters,
- Insect nets,
- Ramp equalizers and isothermal dock shelter,
- Fire doors and industrial shutters,
- Automations for gates,
- Retractable awnings,
- Aluminium gates and fences,
- Metallic shutters.



■ **MCA Grup**  
[www.awnings-mca.eu](http://www.awnings-mca.eu)  
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