



# PERGOLAS



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# PERGOLAS

**Self-supporting ARTOSI bioclimatic pergola** with innovative and clean design from the development department of ISOTRA. The basic dimensions of the product - width 4 m and slide-out/extension up to 7 m - meet the strict requirements for the current user comfort. ARTOSI pergola can be assembled in combination freestanding or anchored to the wall. Due to the proven parameters, the price is a significant competitive advantage.

**Self-supporting pergola MIRA 4** or **pergola MIRA 2** with an ingenious and innovative design. Mira pergolas represent the synthesis of solid and stable construction and innovative design, including the relevant components. In addition to dynamic tests, the Mira pergolas also meet the stringent requirements of static tests of even load of the slats in the closed position weighing up to 140 kg / m<sup>2</sup>. The pergolas meet the requirements of the 6<sup>th</sup> class of wind resistance.

**Aluminum fabric pergolas LUKA M and LUKA S** are an aesthetic decoration of your conservatory. The pull-down roof is made of a single piece of non-flammable PVC fabric. The fabric proves excellent strength and dimensional stability, 100% protection against rain and sunshine is self-evident. Traction system is made of high resistant toothed belt, running on ball bearings. This connection is characterized by very quiet and regular running. The frontal water-drain is an integrated part of the structure. Pergola control is motorized.

## ADVANTAGES AND BENEFITS

INNOVATIVE DESIGN

ALUMINUM SLATS WITH ORIENTATION 0° TO 140°

NON-COMBUSTIBLE PVC FABRIC

INTEGRATED DRAINAGE

PROTECTION AGAINST RAIN AND SNOW

HIGH WIND RESISTANCE

POSSIBILITY OF INTEGRATION OF SCREEN BLINDS OR OUTDOOR BLINDS

POSSIBILITY TO COUPLE PERGOLAS

### LEGEND



remote control



Tahoma

## ISOTRA *Quality*

A mark symbolising long tradition, inestimable investment into development, the use of quality materials, state-of-the-art technologies, reliable work from hundreds of employees and numerous other parameters, constituting one entity - the final product of ISOTRA.



# ARTOSI BIOCLIMATIC PERGOLA

Self-supporting ARTOSI bioclimatic pergola with innovative and clean design from the development department of ISOTRA. The basic dimensions of the product - width 4 m and slide-out/extension up to 7 m - meet the strict requirements for the current user comfort.

Aluminum slat can be oriented from 0 ° to 130 °, of course there is a seal and slant of the slats for the controlled drainage of water. The loading capacity of the slats is from 116 kg/m<sup>2</sup> at 4 x 6 m dimensions. Shading components and LED lighting can be integrated into the pergola.

The advantage of the ARTOSI pergola is the possibility of dividing the roof into more independent sections, which are individually controlled according to the position of the sun's rays. The pergola prop can be placed up to 1 m outside the pergola corner of the pergola inwards.

Pergola ARTOSI can be assembled in combination freestanding or anchored to the wall. Due to the proven parameters, the price is a significant competitive advantage.

Pergola	Design	Length „L“ (extension, mm)		Width „S“ (mm)		Underpass height Dimension H (mm)	Guaranteed area (m <sup>2</sup> )
		min.	max.	min.	max.	max.	max.
ARTOSI	motor	1 440	7 000	1 000	4 000	3 000	28

From 6,121 mm slide-out, pergola has 6 props.

It is necessary to split the pergola into min. 2 separate sections (min. 2 pieces of engines) from the extension 5.400 mm.



## Advantages and benefits

- The pergola is produced with high accuracy
- Possibility to place props up to 1 m outside the corner of the pergola inwards
- Low stand height of the roof profile including slat opening - 25 cm in total
- Possibility of dividing the roof slats into more independent sections, separately controlled
- Clean and elegant design
- Easy assembly / disassembly of the slats and great variability of installation
- Angle of slat opening 130 °
- The loading capacity of the slats is from 116 kg/m<sup>2</sup> for at 4 x 6 m dimensions pergolas
- Wind resistance class 6
- Possibility of a LED strip on the sides of the pergola slide-out
- Possibility of integrating shading technology
- Price corresponding to the product parameters
- Our own development



## Installation options

- Pergola ARTOSI is self-supporting with anchoring the stands into the floor and with the possibility of anchoring the profile into the wall.

## Control method



- Serves for opening, tilting and closing aluminum slats in the pergola roof.



- Somfy WT / IO motor

## Basic color design

○ RAL 9010 white

● RAL 9006 light silver

● RAL 9007 silver

● RAL 8014 brown

● RAL 7016 anthracite gray

● RAL 7016S anthracite gray structure

## Installation options

- 3 basic ways to install pergolas



**A**

Freestanding, slats parallel to the shorter side of the pergola

- Max. dimensions for 4 props: 4 x 6 m
- Max. dimensions for 4 + 2 props: 4 x 7 m



**B**

In the wall, the slats parallel to the shorter side, the wall parallel to the slats

- Max. dimensions for 2 props: 4 x 6 m
- Max. dimensions for 2 + 2 props: 4 x 7 m



**C**

In the wall, slats parallel to the shorter side, the wall perpendicular to the shorter side

- Max. dimensions for 2 props: 4 x 6 m
- Max. dimensions for 2 + 2 props: 4 x 7 m



# PERGOLA MIRA 4

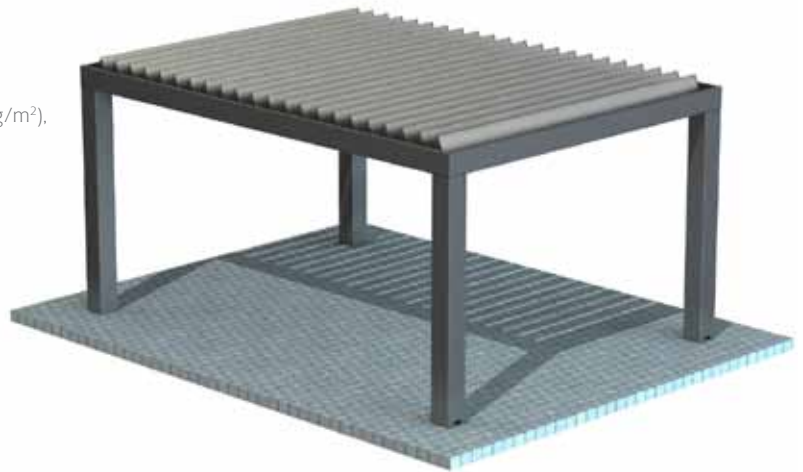
Mira 4 is a self-supporting pergola with 4 base stands. The pergola roof is made of aluminum slats, which can be oriented from 0° to 140° with sealing and lateral water drainage. Pergola Mira 4 can be coupled to the modular system side by side or in succession.

The LED spotlight can be integrated into the pergola. The pergola can be expanded with shading components - screen blinds or outdoor blinds, and can be completed with rain and temperature sensor provided anti-snow system against snow-loading of slats is used.

Pergola	Design	Lenght (mm)		Width (mm)		Height (mm)	Guaranteed area (m <sup>2</sup> )
		min.	max.	min.	max.	max.	max.
MIRA 4	motor	2 000	7 000	2 000	4 500	3 000	31,5

## Advantages and benefits

- Aluminum slats with orientation 0° to 140°.
- lateral water drainage integrated into the stands,
- protection against rain and snow (max. load 140 kg/m<sup>2</sup>).
- high wind resistance.
- possibility of integration of screen blinds or outdoor blinds.
- possibility to couple pergolas.
- any RAL construction color including the anthracite structure.



## Installation options

- Pergola MIRA 4 is self-supporting with the possibility of anchoring the stands into the floor.

## Control



## Basic colours

of the construction and slats

○ RAL 9003 white

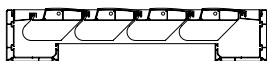
● RAL 9006 light silver

● RAL 7016 anthracite gray

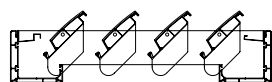
● RAL 8014 brown

● V01 pearl silver

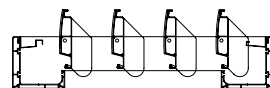
● V05 black sandblasted



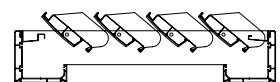
0°



45°



90°



140°







# PERGOLA MIRA 2

Mira 2 is a self-supporting pergola with 2 base stands and anchoring into the wall. The pergola roof is made of aluminum slats, which can be oriented from 0° to 140° with sealing and lateral water drainage. Pergola Mira 2 can be coupled in a modular system side by side or in succession.

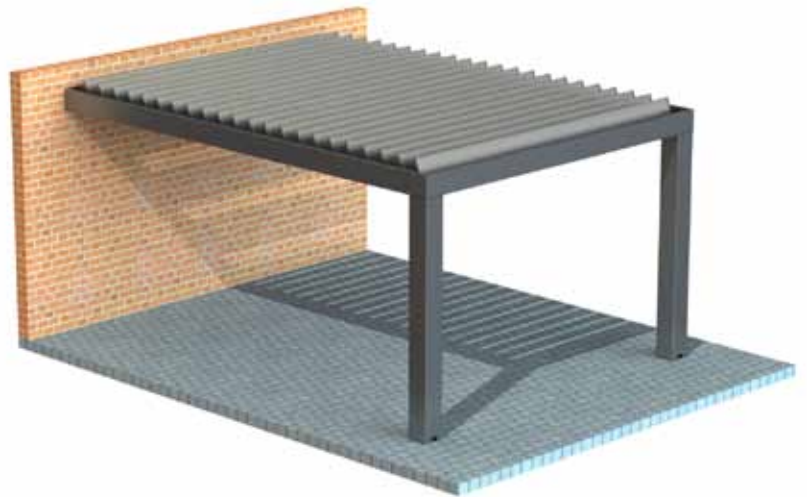
The LED spotlight can be integrated into the pergola. The pergola can be completed with shading components - screen blinds or outdoor blinds, and can be completed with rain and temperature sensor provided an anti-snow system is used.

Pergola	Design	Lenght (mm)		Width (mm)		Height (mm)	Guaranteed area (m <sup>2</sup> )
		min.	max.	min.	max.	max.	max.
MIRA 2	motor	2 000	7 000	2 000	4 500	3 000	31,5



## Advantages and benefits

- Aluminum slats with orientation 0° to 140°.
- lateral water drainage integrated into the stands,
- protection against rain and snow (max. load 140 kg/m<sup>2</sup>).
- high wind resistance.
- possibility of integration of screen blinds or outdoor blinds.
- possibility to couple pergolas.
- any RAL construction color including the anthracite structure.



## Installation options

- Pergola MIRA 2 is self-supporting with the possibility of anchoring the stands into the floor and anchoring the profile into the wall.

## Control



## Basic colours

of the construction and slats



RAL 9003 white



RAL 9006 light silver



RAL 7016 anthracite gray



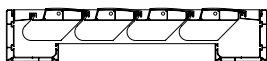
RAL 8014 brown



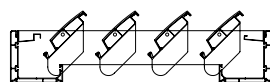
V01 pearl silver



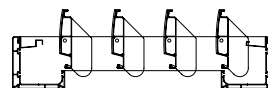
V05 black sandblasted



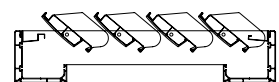
0°



45°



90°



140°





# LUKA S, LUKA M

The aluminium fabric pergola LUKA enhances different environments: from traditional to modern furnishings for a refined and trendy location. The retractable roof is made of one single cloth of flame retardant PVC fabric.

The fabric is characterized by high dimensional stability and it is good for sun, rain and wind protection. The frontal water-drain is an integrated part of the structure. Traction system is made of high resistant toothed belt, running on ball bearings. This connection is characterized by very quiet and regular running. Pergola control is only possible with the motor. Variants of LUKA S and LUKA M fabric pergolas differ only in the limit dimensions. Alternatively, two pergolas can be coupled side by side, this option you can order under the name LUKA S/D or LUKA M/D.

Pergola	Design	Length, ejection (mm)		Width (mm)		Height (mm)
		min.	max.	min.	max.	max.
LUKA S	motor	2000	5000	2000	4500	2500
LUKA S/D	motor	2000	5000	5000	8000	2500
LUKA M	motor	2000	6000	2000	6000	3000
LUKA M/D	motor	2000	6000	5000	8000	3000

## Advantages and benefits

- Flame retardant PVC fabric with high dimensional stability,
- Frontal integrated water-drain,
- Rain and sun rays protection,
- the untraditional traction system ensures quiet operation of the pergola
- possibility to couple two pergolas,
- any RAL construction color including the anthracite structure.



Pergola LUKA M

## Installation option

- Pergola LUKA is self-supporting with the possibility of anchoring the stands into the floor and anchoring the profile into the wall.

## Control



Pergola LUKA M/D

## Basic colours

of the construction

○ RAL 9003 white

○ RAL 1013 oyster white

● V02 matt bronze

● V01\* pearl silver

● V05 black sandblasted

\*only for pergola LUKA M, M/D





# FABRICS

There can be used two types of PVC fabrics – fabrics 502 SATIN from Serge Ferrari and fabrics 716 Polyplan from Sattler for LUKA pergolas.

## FABRICS 502 SATIN

- Satin effect to give a modern and high end look to your projects
- reinforced dirt resistance due to a weldable PVDF treatment
- a very smooth finish ensures easy upkeep
- exceptional dimensional stability
- breaking strenght
- long-term mechanical resistance
- a maximum UV protection (100% filtration of UVB rays, UPF 50+ for all the colors)
- protection against heat and inclement weather conditions
- 10 year warranty (for static applications)

### The technical data

weight (g/m <sup>2</sup> )	Thickness (mm)	Material	Width (mm)	Fire classification	Temperature range (°C)	Openness factor (%)	UV factor (%)	colour fastness to light
570 +/- 5 %	0,45 +/- 5 %	PVC	1 800	M2, B1, B-s2, d0	+ 70/-30	0	-	-

<b>P1</b>	price group		printable
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## FABRICS 716 POLYPLAN

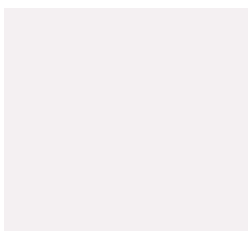
- Durability
- Excellent weldability
- Flame retardancy (B-s2,d0 according to EN 13501-1)
- Dimensional stability
- Extremely cold and heat resistant
- Mould repellent finish

### The technical data

weight (g/m <sup>2</sup> )	Thickness (mm)	Material	Width (mm)	Fire classification	Temperature range (°C)	Openness factor (%)	UV factor (%)	colour fastness to light
780 +/- 5 %	0,6 +/- 5 %	PVC	320/250*	CL2, B-s2, d0	+ 70/-30	0	80	≥7

\* 716833 grey, 716739 brown

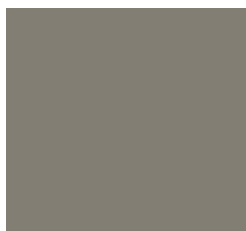
<b>P1</b>	price group		printable
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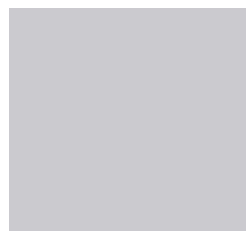
78410



78683



716739



716833









**ISOTRA a.s.**

Bílavecká 2411/1, 746 01 Opava  
Czech Republic

Phone: **+420 553 685 111**

E-mail: [isotra@isotra.cz](mailto:isotra@isotra.cz)

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

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