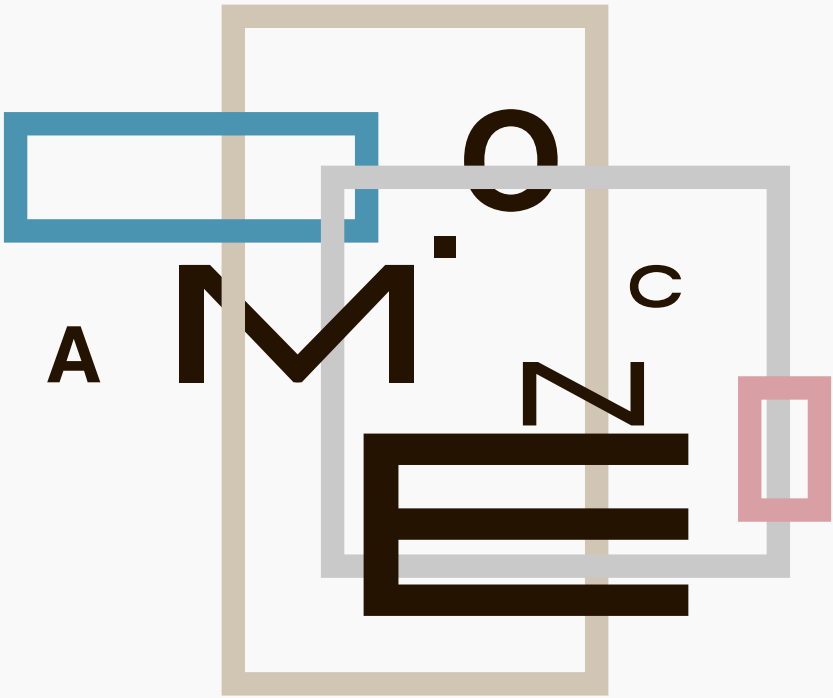


M·OCEAN

# PHILOSOPHY

We are creating our world.
It is special…
Find the answers to your questions in it.
Join us.
It's your time now...

# M-OCEAN PERGOLAS

## Protection from the sun and rain

Ukrainian production. European quality

Our company has developed a functional and stylish construction - pergola M-OCEAN.
The system is designed to protect against direct sunlight and torrential rain terraces of private houses, outdoor areas of restaurants, hotels, cafes.

M-OCEAN

M-OCEAN JUMBO

M-OCEAN WOOD

M-OCEAN BIOCLIMATIC LINE

M-OCEAN ARKA

FEEL YOUR M-OCEAN

M-OCEAN
Location: Kiev
Product: M-OCEAN Pergola

# Options of M-OCEAN Pergolas

1. **SIMPLE** – pergola without pillars. Pergola's guides are attached to the existing construction using brackets.

2. **PRIME** – adjacent pergola to the facade of the building. Pergola's guides are attached to an existing bearing wall or ceiling, and pergola's support pillars - on the horizontal bearing base.

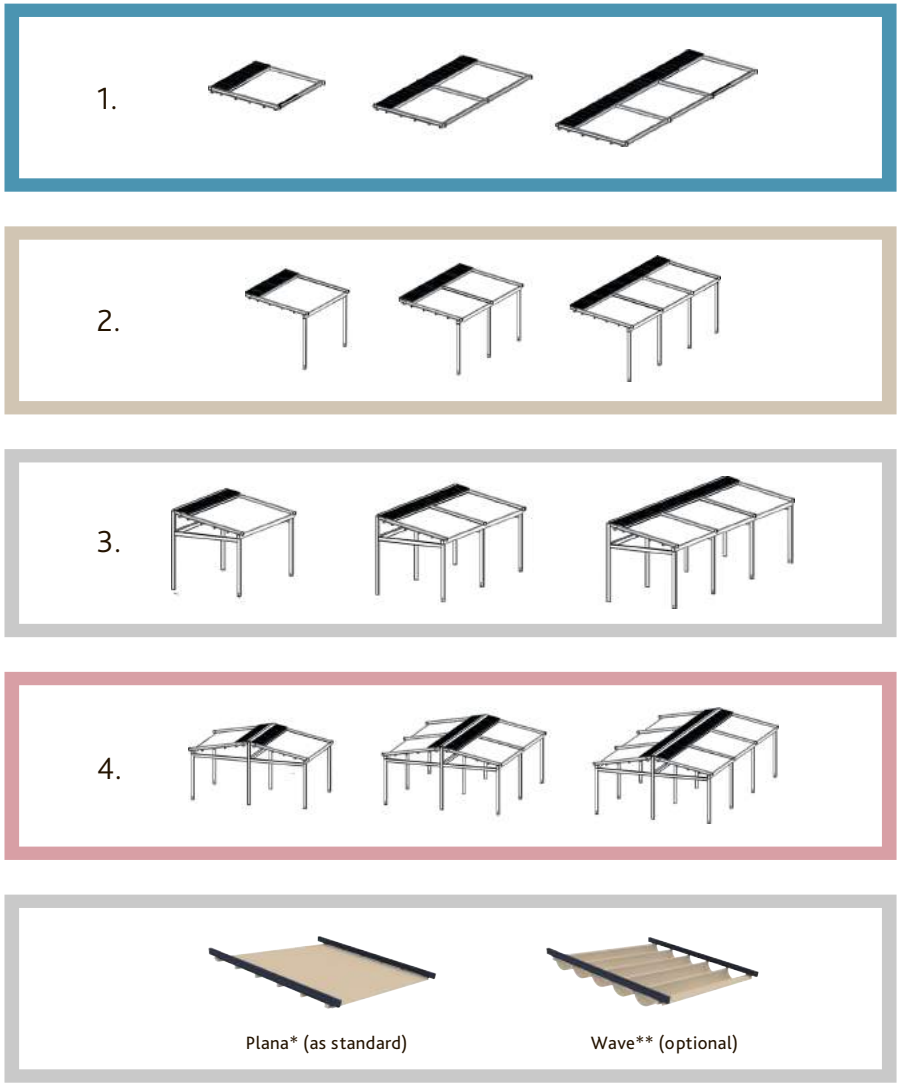
3. **COMPLEX S** – freestanding monoslope pergola. It is installed on a horizontal bearing base using support pillars. Is has a roof slope to one side.

4. **COMPLEX D** – freestanding gable pergola. It is installed on a horizontal bearing base using support pillars. Is has a roof slope to both sides.

# Options of fabric tension

Reinforced waterproof PVC material, manufactured by Sattler Group (Austria) or Serge Ferrari (France), is used for the production of a solid fabric.

Maximum size of pergola M-OCEAN is 13x7 m.

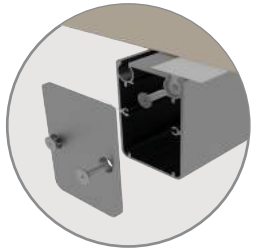



*In the standard execution (by default), the fabric in the unfolded state is under contant tension, which ensures an efficient drainage of rainwater through the drainage system to the base of pillars.

**For the systems located horizontally or at small angle, a variant of fabric with sags is used. In this case, rainwater is diverted to the side gap of the pergola.

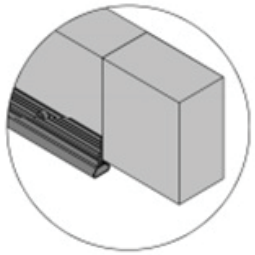
# Elements of the system

The front horizontal profile with integrated gutter is a bearing element for the entire pergola and provides high level of reliability and stability of the structure.
Built-in drainage system allows to drain rainwater to the base of the pillars. In this case, the developed profile of the gutter and pillar conform to the necessary norms on drainage capacity, both according to European standards (DIN EN 612-2005 and BS 12056:2000), and by domestic standards (DBN V.2.6-97 and SNiP 2.04.03-85). Designed connecting elements of stainless steel guarantee the strength and corrosion ressistance of the entire system, as well as the convenience and ease of installation.



A sliding roof is made of a solid fabric, which prevents leakage in the joints of the beams for the fabric. The PVC fabric is fixed in the cross beams for the fabric using omega-profile, which allows securely fix the fabric and stretch it on width for creation of correct fabric extension not only on the overhang, but also on the width of the pergola.

For the PVC sliding roof wear-resistant rollers for trolleys (Italy) are used. Rollers are made using bearings of stainless steel with a double-sided protective ring against dirt.
Minimum service life of the rollers is 10 years of pergola exploitation with 1 complete opening/closing cycle per day (based on the maximum possible loads on the roller).



The side seal of the tubular form effectively prevents rainwater from flowing through the side edge of the roof (it is installed only on the outer guide rails).

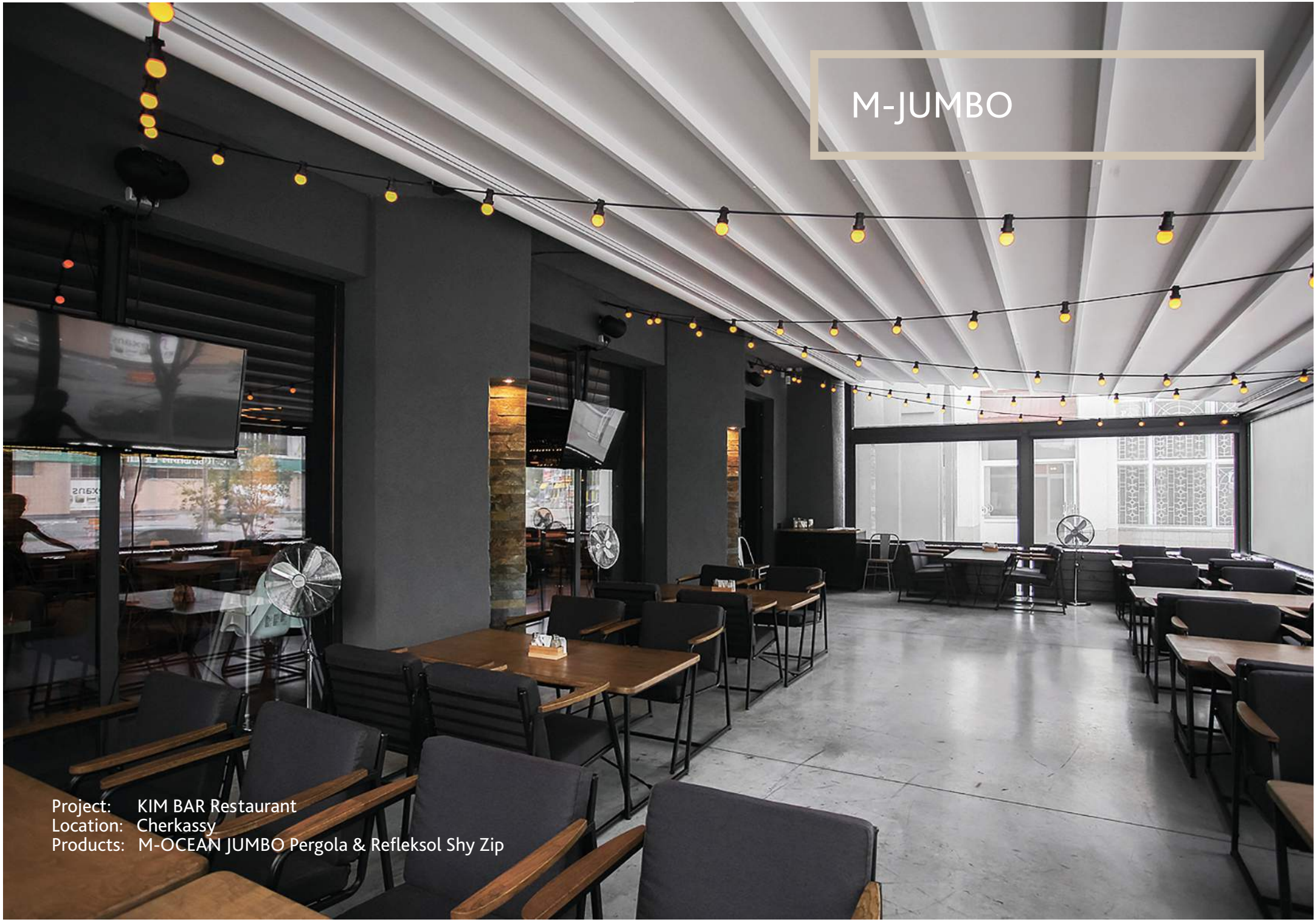
The standard version of fixing the pillar and drainage arranging, using stainless plate and a drain hole in the pillar.

An optional version of fixing the pillar and drainage arranging, using supporting stainless plate and a drain hole with a pipe in the pillar. With this option, it is possible to remove water from the pergola directly into the existing drainage system.

An optional version of fixing the pillar and drainage arranging and water drain organizing. Dimensions of the base plate do not protrude beyond the pillar.

It is recommended to install a protective cover made of profiled sheeting (optional). Using of protective cover with a perimeter frame made of aluminium allows to protect a driven group and folded fabric of pergola from precipitation. The presence of a sealant between the perimeter profile sheeting eliminates the acoustic effect during rain.

DREAM BIG



# M-JUMBO

Project: KIM BAR Restaurant
Location: Cherkassy
Products: M-OCEAN JUMBO Pergola & Refleksol Shy Zip

# M-OCEAN JUMBO

Company has developed and launched a new model M-OCEAN JUMBO pergola for terraces with the overhang of the roof up to 9.5 m.

Design features are reinforced guide profiles and pillars guaranteeing stability and durability of the system.

Special configuration of the guide profile and trolleys, tension system based on reinforced belt.

Managing M-OCEAN JUMBO pergola is possible only with the use of electric drive.

The maximum size of M-OCEAN JUMBO pergola is 13x9,5 m.

Enlarged guide 180x120 mm has a bearing function in construction, providing a high level of  reliability structure.

Enlarged pillar 120x120 mm (standard version of fixing and drainage system arrangement). It is a stainless plate and draining hole in the pillar. Other variants of pillar fixing are possible (see M-OCEAN section).

A speciall designed MotorBox, which allows to control the pergola with the help of intra-shaft drives, regardless of the overall dimensions of the structure.

# THE POWER OF WOOD

Project: Mr. ZUMA Restaurant, TC Gulliver
Location: Kiev
Products: M-OCEAN WOOD Pergola & Refleksol Shy Zip

# M-OCEAN WOOD

Company has developed and brought to the market a new model M-OCEAN WOOD pergola, which combines functional aluminum structural elements and aesthetic appeal of wood.

The wooden elements of M-OCEAN WOOD pergola are made from high-quality softwood, treated by coatings with high resistance to natural factors, due to which this system will last for many years. Aluminum and the stainless steel parts are powder-coated in accordance with the RAL catalogue.

Maximum size of M-OCEAN WOOD pergolas is 13×6 м.

M-OCEAN WOOD pergola follows the general style and the structural concept of aluminum pergola M-OCEAN. These wooden elements perform at the same time not only decorative but also a bearing function.

There is the standard version of pillar fixing and drain arrangement.

Glued beams differ in their durability and good aesthetic qualities. They are protected from pests, rotting and deformation.

# THE ART OF SHADOW

M-LINE BIOCLIMATIC
Project: PANORAMA DE LUXE Hotel
Location: Odessa
Products: M-OCEAN LINE Pergola

# M-OCEAN BIOCLIMATIC LINE

Company has developed and brought to market a unique bioclimatic M-OCEAN LINE pergola with automatic swivel aluminum slats, which is designed to effectively protect the terrace from the sun, heavy rain and snow.

The ability to adjust the angle of rotation of lamellas from 0 ° to 150 ° provides an optimal combination of sunlight and shade, and also allows natural ventilation under the pergola.

A robust fixed support structure made from extruded aluminum is fully wind-resistant for our climate zone (11 Beaufort scale, which corresponds to a wind pressure of 60 kg/m² and a wind speed of 110 km/h).

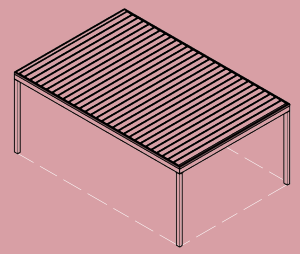
The maximum size of M-OCEAN LINE pergola is 4×7 m.

## Advantages of the system:

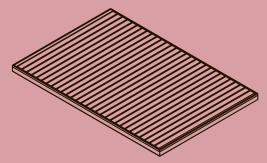
- Built-in drainage system, which allows to drain rainwater to the base of the pillars.
- The slope angle of the slats in the horizontal plane allows to effectively drain all water from the roof into the gutter during the rain.
- Self-supporting gutter along the perimeter of the system allows to drain water at any point of the perimeter of the gutter.
- A reliable rod actuator Elero Linear (Germany) is used to rotate the lamellas.
- The design can be used as a stand-alone or adjacent to the facade.
- There is a possibility of consecutive installation of several modules.
- Materials of pergola are recyclable.
- Built-in LED lighting (optional) is used to create a comfortable atmosphere at night.
- There are various design options of side openings.

## VARIANTS OF THE SYSTEMS

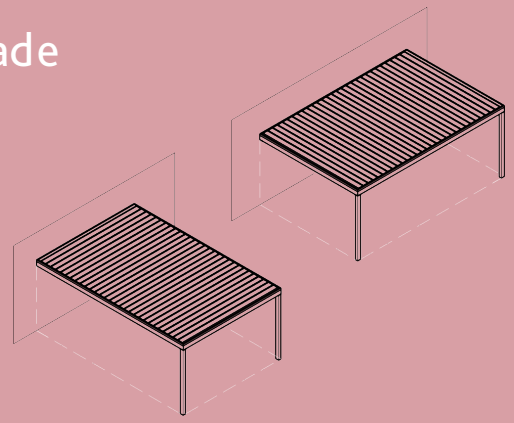
### Free-standing



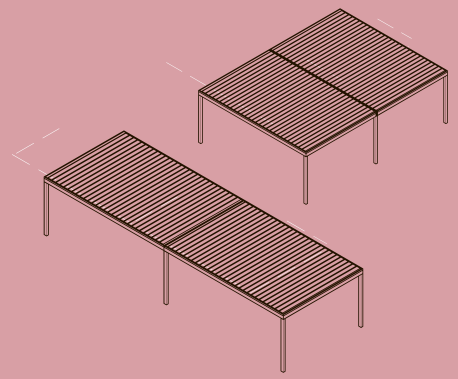
### On the existing structure

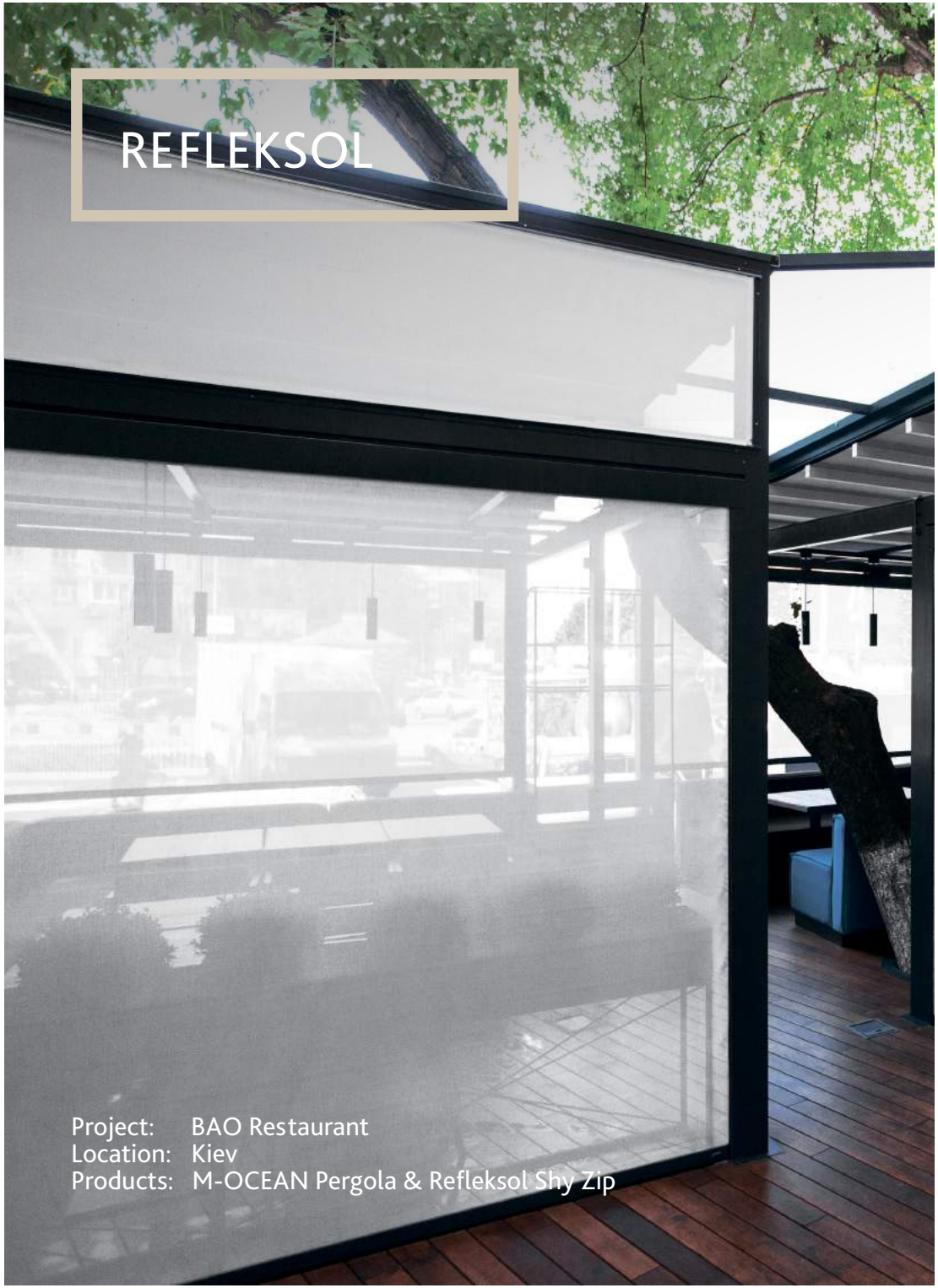


### Adjacent to the facade



### Modularity options






Project: BAO Restaurant
Location: Kiev
Products: M-OCEAN Pergola & Refleksol Shy Zip

# CLOSING OF SIDE OPENINGS

## Refleksol

The REFLEKSOL system is an external fabric roller, used for shading large apertures.

The REFLEKSOL SHY ZIP system is recommended for areas with high wind loads.

The Soltis (Serge Ferrari, France) and Ray-screen (Solaye, Belgium) fabrics, used in the REFLEKSOL system can dissipate sunlight, retain heat radiation, maintain the optimum room temperature, reducing it by 5-7 °C, maximize the use of natural light and protect against insects.

The Crystal fabric is a transparent PVC material (Achilles, Japan) that provides maximum light transmission and best visual contact with the environment, without reducing visibility. This is a good protection of the space from the side wind, snow and rain.

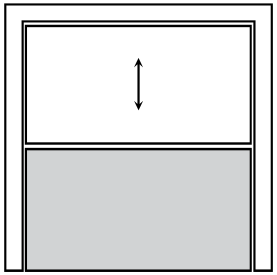
# PANORAMA

The system is an automatic sliding frame glazing, its panels move in a vertical plane. The structure is made of aluminum, which provides strength and corrosion resistance.

## Advantages of the system:

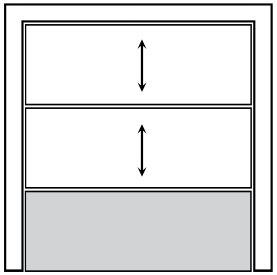
- Closing of large openings - up to 4 m.
- Regulation of fresh air intake in enclosed spaces.
- Simplicity of installation, exploitation and service maintenance.
- Application of the system as a fence (balustrade).
- Adjustment of glazing height.
- Safety glass with a thickness of 8 mm is used.
- Protection against strong wind, rain and snow.
- Simplicity of service and quiet operation of the system.

max width - 4000 mm,
max height - 3500 mm,
max area - 14 m²



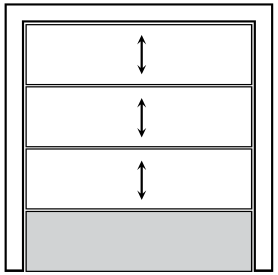
1+1

max width - 4000 mm,
max height - 2750 mm,
max area - 10.8 m²

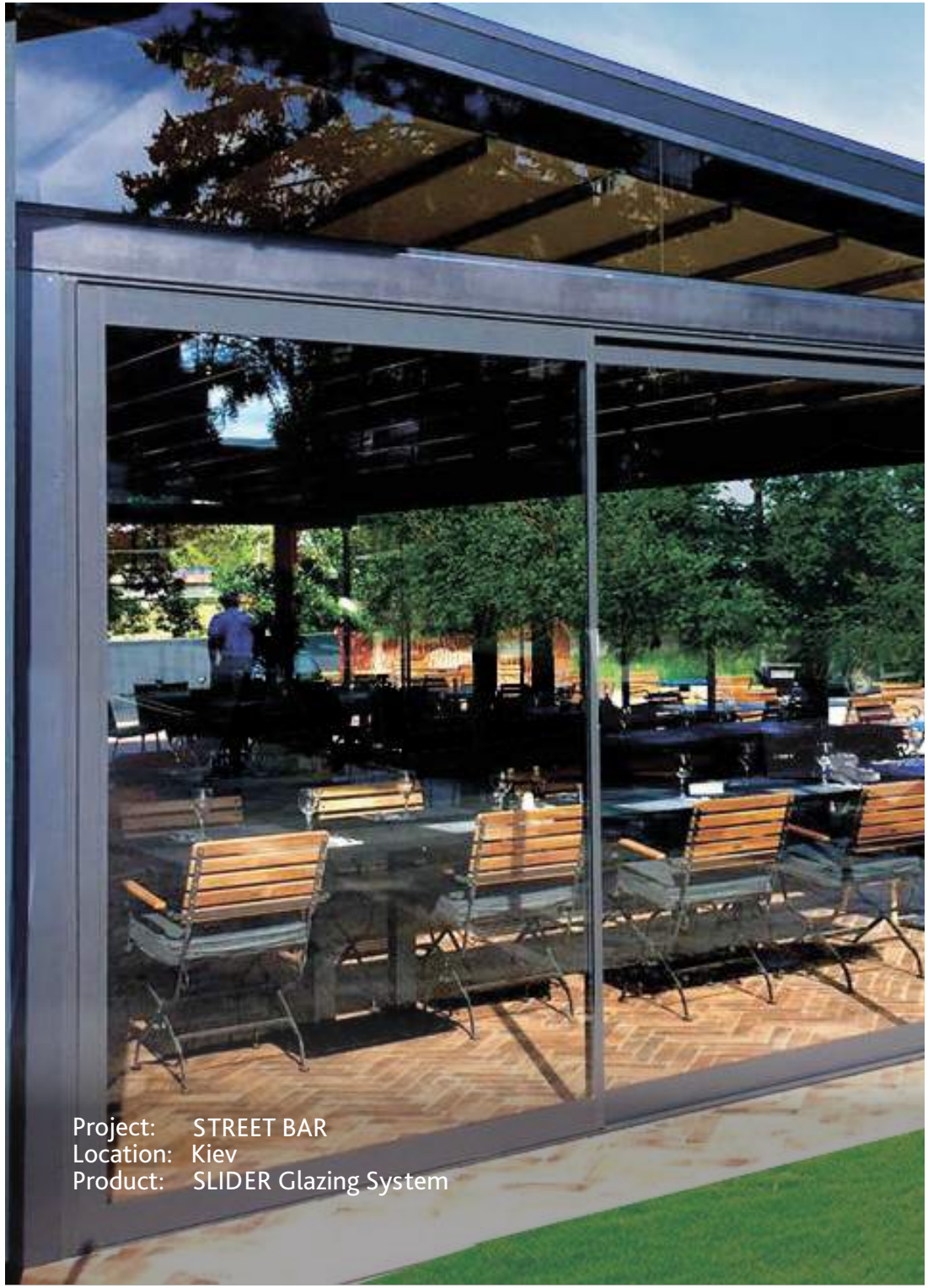


1+2

max width - 4000 mm,
max height - 2400 mm,
max area - 9.6 m²



1+3




# SLIDER

Sliding manual frame glazing, the wings of which move in a horizontal plane. The sliding system of glazing with heat-insulating properties is designed to protect the openings of open terraces of restaurants, hotels, private houses, balconies and winter gardens from strong wind and rain.

The system has a panoramic view due to its special panels up to 1.5 m wide. These panels are easily opened and closed using advanced sliding roller systems.

The construction can include safety glass thickness of 8 or 10 mm, as well as double-glazed windows 20 mm. The choice of the thickness of the glass depends on the required level of insulation and the characteristics of the place of application.

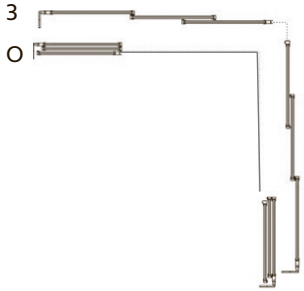
The system can be executed with standard (15 mm) or high (47 mm) threshold.

Sliding options:

One-way direction

Two-way direction

Angle joint




Designations: C - system in closed position
O - system in open position

NEW PRODUCT

# M-OCEAN ARKA

Company has developed and brought to the market the original M-OCEAN ARKA pergola with PVC sliding roof and curved arch-shaped guides.

M-OCEAN ARKA is an ideal solution for buildings, terraces of restaurants, hotels, cafes with non-standard design and architecture.

The maximum size of a single-module M-OCEAN ARKA pergola is 5×9 m.

## COLORS RANGE STRUCTURE

### ALUMINIUM

White | Ivory | Light Steel | Anthracite | Other RAL

### WOOD

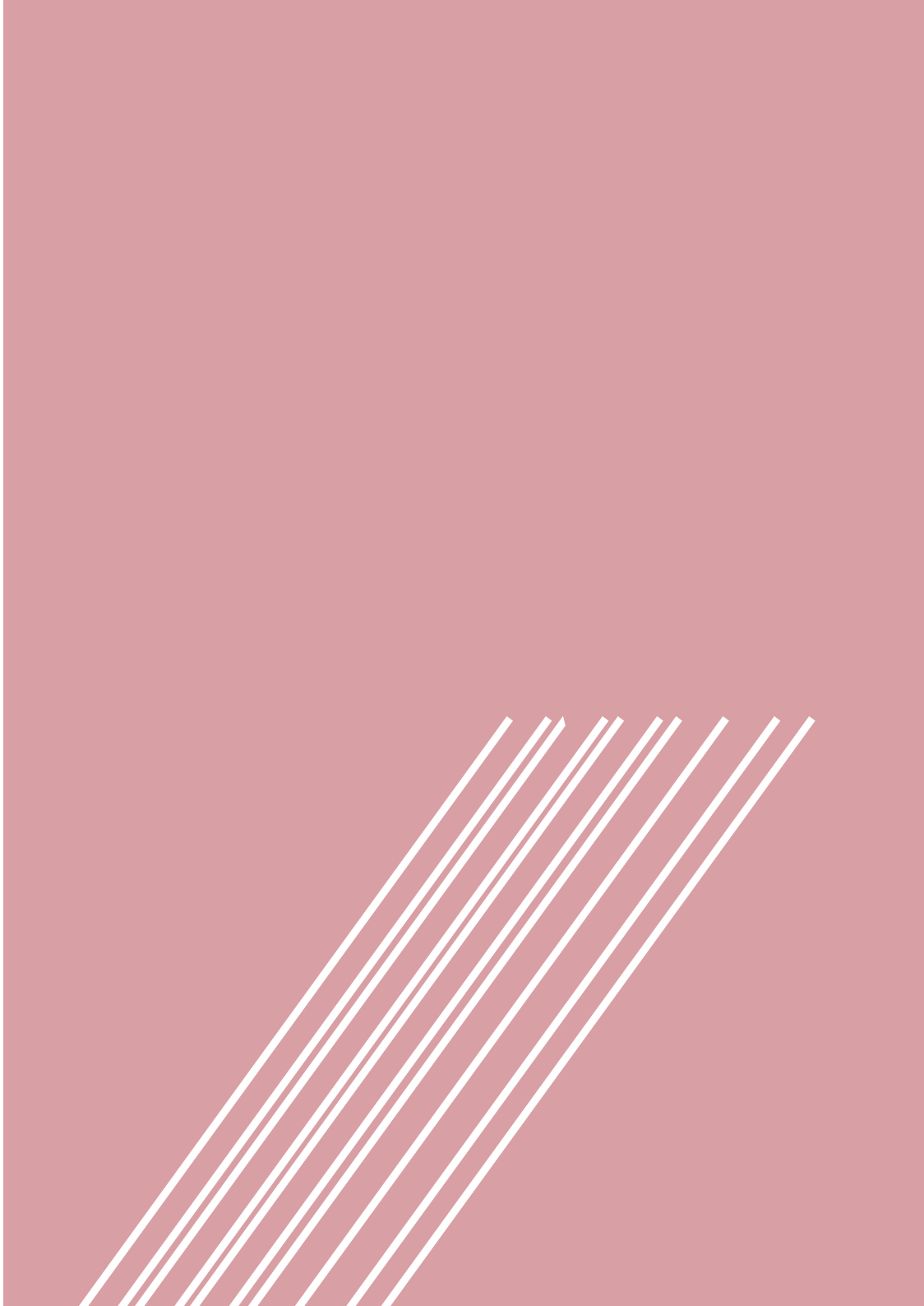
White | Grey | Walnut | Rustical Oak | Tick

### FABRIC

White | Beige | Opatex Grey-Champagne

Operation of all M-OCEAN pergolas with PVC sliding roofs is carried out using electric drive Somfy (France).

The place under the sun is distributed by those in the shadows...



pergolas / refleksols / facade blinds
awnings / sun sails / systems for winter gardens