



USE AND MAINTENANCE MANUAL

DECLARATION OF QUALITY

DECLARATION OF WARRANTY

DECLARATION OF PERFORMANCE DoP

MODEL

VARIA

ISLAND VERSION, LEANING VERSION, SINGLE MODULE, COUPLED



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WARNING: carefully read all warnings and instructions in this manual and in the use and maintenance manual before carrying out any operation with the awning. Read in particular the chapter on safety.

Dear Customer,
thank you for choosing an awning by “Gibus”, we are pleased to deliver this manual in order to help you to use the product in the best possible way.

Please read carefully the recommendations described in the following pages and keep the manual at hand for the Gibus specialist who will be responsible for management and maintenance of the awning.



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IMPORTANT NOTE:

For the sake of simplicity, in this manual the product may be referred to as “pergola”, “awning” or “structure”.
The correct definition that identifies the product is “Drop Awning”, with a detailed description found in section 1.1 “Preliminary Information” and in Chapter 15 “Annexes”.

These instructions were translated from Italian (original language).

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CHAPTER 1: INTRODUCTION

1.1 PRELIMINARY INFORMATION

Do not destroy and change, if needed just supplement with inserts published by the manufacturer. This manual refers to the product:

- Type of awning: Bioclimatic pergola with brise-soleil and built-in side drop awnings. Self-supporting or wall leaning version for outdoor use.
- Models: VARIA (ISLAND - LEANING VERSION)
- Published: Gibus S.p.A. via L. Einaudi, 35 - 35030 SACCOLONGO (PD) - ITALY
[http: www.gibus.it](http://www.gibus.it) - e-mail: gibus@gibus.it
- List of annexes: Installation instructions - Motors and automatisms instructions - Delivery certificate.

Each operator and personnel in charge of the installation, adjustments, operation and maintenance of the Bioclimatic Pergola, must read very carefully this manual and observe the instructions given, the operator in charge of the installation and maintenance must also meet the qualification requirements for the use and maintenance of the Pergola.



IMPORTANT: The instruction manual is aimed at those who use the Bioclimatic Pergola, such as an installer, maintainer, owner or user and is the basis for the correct use and maintenance of the product. Addressed **to the installer** are the instructions for handling, unpacking, installation, adjustment and maintenance. Addressed **to the owner** are the instructions for proper use, maintenance and disposal, as well as the warranty. **This manual is an integral part of the product.** Keep it intact and in an easily accessible place for future reference and at hand for further consultation until the disposal of the Bioclimatic Pergola. In case of loss or destruction of the manual, the customer must request a new copy to his Retailer, providing the main data of the product and the destination of the new copy. When selling this manual must follow the Bioclimatic Pergola to its new destination. **The manual must always be available to the qualified installation, maintenance or control personnel for the necessary registration.** The Manufacturer reserves the right to update products and relevant manuals, with no obligation to update previous manuals.

This manual is the essential tool for maintaining the validity of the guarantee.

1.2 INSTRUCTIONS FOR USE

The instructions contained in this manual are intended for models:

- **VARIA ISLAND:** Self-supporting isolated Bioclimatic pergola with cover formed by a brise soleil with adjustable blades and built-in side drop awnings (blinds with zip system), available in single or multi-module with coupling modules.
- **VARIA LEANING VERSION:** Self-supporting Bioclimatic pergola attached to the wall with a cover formed by a brise soleil with adjustable blades and built-in side drop awnings (blinds with zip system), available in single or multi-module with coupling modules.

The instruction manual must be read and used in the following way:

- Read this manual carefully, and consider it an integral part of the Pergola;
- The instruction manual must be readily available for use by staff in charge of running and maintenance;
- Keep the manual for the entire service life of the Pergola;
- In case of sale deliver the manual to the new owner of the Pergola;
- Use the manual in such a way not to damage its content;
- In no case remove, tear or re-write any part of the manual;
- Keep the manual in a place protected from moisture and heat;
- If the manual is lost or partially damaged and then its complete content can no longer be read, it is advisable to request a new manual to the manufacturer.

In the following pages pay close attention to the following symbols and their meaning. Their function is to highlight essential information such as:



WARNING: DANGER TO THE OPERATOR/USER In reference to dangerous situations that can occur with the use (including installation and maintenance) of the Pergola. Failure to comply with these messages may endanger the safety of persons and the product.



WARNING: In reference to dangerous situations that may occur due to the **PRESENCE OF ELECTRICAL VOLTAGE**. Failure to comply with these messages may endanger the safety of persons and the integrity of the product.



WARNING: In reference to dangerous situations that can occur with the use of the Pergola to prevent damage to objects and the Pergola itself.



IMPORTANT: Useful information and tips to be observed to ensure proper use and preservation of the Pergola. Failure to observe these messages can affect the integrity and / or resistance of the product.

1.3

REGULATIONS AND SELF-CERTIFICATION DOCUMENTATION

1.3.1 With reference to CE marking

This User's Manual was prepared in accordance as indicated in EN 13561 and and with section 1.7.4 of Annex 1 to Directive 2006/42/EC taking into account the normal use of the Pergola in order to inform, together with other instructions for use affixed to the pergola itself or in the installation instructions, the operators / users on residual risks that the products presents.

The Bioclimatic Pergola complies with the "Construction products regulations - CPR 305/2011" and the requirements given in the Annex ZA of the EN 13561, "assessment and inspection system for performance continuity type 4" (System 4).

If it is installed properly, it has a resistance to wind as shown in the technical data table in section 4, according to the size, in each case greater or equal than those required by the Class 4 of the UNI EN 13561 rule on "External awnings - Performance requirements including safety".

This Technical Classification ensures resistance to a wind that carries a maximum pressure rating of 170 [N/m²] (Newton/m²) similar to a wind insisting on the awning with a maximum speed of 60 [km / h] corresponding to the 7th level of the Beaufort Scale. The resistance to wind load was evaluated according to criteria related to those required by the UNI EN 13561 and UNI EN 1932 rules and from the technical standards in force, with the necessary safety margins.

The Pergola complies as well as the relevant parts of the Machinery Directive 2006/42/EC. The CE Mark together with wind resistance characteristics according to UNI EN 13561 and the self-certification document (Declaration of Performance DoP) are included in APPENDIX 0 and APPENDIX 1 on the last pages of this manual. The original Declaration of Performance DoP issued by the manufacturer is kept by Gibus S.p.A.

1.3.2 With reference to UKCA marking

This User's Manual was prepared according to EN 13561 and the "Supply of Machinery (Safety) Regulations 2008" taking into account the normal use of the awning and in order to inform the users/operators and provide them with the instructions to install the awning itself and warn users about the residual risks.

The awning complies with the relevant parts of "The Construction Products (Amendment etc.) (EU Exit) Regulations 2020" and offers, if it is properly installed, a resistance to a wind load as much as the resistance required by Class 4 of the EN 13561 rule on "External blinds" Performance requirements including safety".

The compliance with this Technical Classification ensures resistance to a wind that carries the maximum pressure rating of 170 [N/m²] (Newton/m²) similar to a wind against the awning with a maximum speed of 60 [km/h] corresponding to the 7th level of the Beaufort Scale. The resistance to wind load was evaluated according to criteria required by the UNI EN 13561 and UNI EN 1932 rules, with the necessary safety margins.

The awning complies the requirements in Annex ZA of the same EN 13561 regulations, where there is an "assessment and inspection system for performance continuity of type 4" (System 4).

The engine driven awning also complies with the relevant parts of the "Supply of Machinery (Safety) Regulations 2008".

The UKCA Marking as well as the wind resistance characteristics according to UNI EN 13561 and the self-certification document ("Declaration of Performance DoP") are included in the ANNEX 2 and ANNEX 3 attached to the last pages of this manual. The original of the "Declaration of Performance DoP" prepared by the manufacturer is filed at Gibus S.p.A.

1.4 RESPONSIBILITY

Gibus SpA is not liable and has no obligations for any accidents to persons or property, which may occur due to:

- Failure to follow the instructions in this manual regarding the installation, use and maintenance of the Pergola;
- Violent actions or mishandling in the installation, use and maintenance of the Pergola;
- Changes made to the Pergola without the prior written permission by Gibus SpA;
- Incidents in any case arising beyond the normal and correct use of the Pergola.

In any case, if the user thinks the cause of the incident is a defect of the Pergola, he will have to prove that the damage has been a consequence of such a "defect".



WARNING: For maintenance or repair to always use only original spare parts. Gibus SpA declines all responsibility for damages that may occur for non-compliance with the above instructions. The Pergola is guaranteed according to the contractual arrangement prepared at the time of sale. The warranty is in any case deemed void if the rules and instructions for use and maintenance contained in this manual were not followed.

Quick or careless preparation leads to improvisation, which is the cause of many accidents. Before starting the installation work and before commissioning of the Pergola, carefully read and observe the following tips:

- Program all operation with the utmost care;
- Be well aware of where and how it is provided for the use and maintenance of the Pergola;
- Strictly follow all warnings relating to special dangers listed in this manual;
- The maintainer must always have at hand the instruction manual;
- A constant and careful preventive maintenance will always ensure a high level of operating safety of the Pergola. Never postpone needed repairs and have them carried out only by qualified personnel, and use only original spare parts.

1.5 IDENTIFICATION OF THE PRODUCT AND TECHNICAL NAMEPLATE

Each model is identified by the adhesive technical nameplate showing the CE marking sign and contains the following data:

- A** Name and address of the registered office of the manufacturer.
B CE marking and/or UKCA marking.
C No of the European rule.
D Model of the awning and specifications.
E Year of manufacture.



Each Gibus awning and pergola is unique, individually recognisable and traceable due to the Gibus trademark 3D hologram with a unique alphanumeric serial number. All Gibus products are supplied with the hologram (see back cover). The hologram is applied near the CE marking.

CHAPTER 2: SAFETY REQUIREMENTS

The manufacturer is not liable for malfunctions and damage if the Pergola:

- Is used for purposes other than those for which it is intended to;
- Is not operated and maintained in accordance with the instructions specified in this manual;
- Is not subject to regular maintenance, as prescribed, or non-original spare parts are used for replacement.



IMPORTANT: For any doubt or unintended use, consult the authorized dealer or the manufacturer before installation.

2.1 PURPOSE AND INTENDED USES OF THE PERGOLA

The Bioclimatic Pergola was designed and made for protection from the sun and rain and it is meant to be used in civil constructions, residential and commercial buildings and other facilities for the community. **The Bioclimatic Pergola is not able to withstand snow load. Therefore should it snow, the blades must be placed vertically (open) before the snow settles on them.** It is advisable to use the snow sensor, temperature sensor combined with the rain sensor, to detect snow and prevent it depositing.

In all cases, do not stand under or near the pergola if any snow has deposited on it (*). Any other use is considered improper and inadequate and releases the manufacturer from all liability for any damage caused to persons or property.

The Bioclimatic Pergola offers, if properly installed, a resistance to wind load greater or equal than those required by the Class 4 of UNI EN 13561. It is therefore recommended the exposure to a wind exerting a maximum pressure of 170 Newton/sqm, corresponding to the load of a continuous wind speed not exceeding 60 km/h. **It is strictly required, for the sake of safety, to open the swinging metal blades vertically before the given limit is reached (even though the pergola offers much higher wind resistance depending on its size).**

The side closures (i.e. vertical drop awnings) have a wind resistance that depends on their size, but it is equal or superior to Class 3 depending on the size of the awning. Therefore, the drop awnings are suitable to stand wind not over the maximum pressure of 110 Newton/m² corresponding to a wind speed below 49 km/h of the Beaufort scale. **Fold the side awnings before exceeding this limit.**

(*) The VARIA structure is designed to withstand a static load from deposited snow of at least 50 kg/m² (without wind).



CAUTION: for safety reasons the brise soleil blades on the pergola must be placed vertically in case of wind exceeding the recommended maximum exposure, very strong rain, hail, snow and ice; it is very dangerous to leave blades placed horizontally in these cases, it can cause injury to persons and damage to property. **Do not stand under or near the pergola if any snow has deposited on it.**

(**) In the event of ice, it might be difficult to open the blades if they are in a horizontal position (i.e. closed).



IMPORTANT: In order to use the Pergola for purposes other than those described above, a specific permission given by the manufacturer is required. Failure to follow the conditions for proper use, voids any warranty given by the manufacturer.

2.2 USE ENVIRONMENT

The Pergola was designed and built to be used outside. It offers adequate protection of the electrical parts to water infiltration. The motors and the control units provides a degree of protection against moisture equal to at least **IP44**.



CAUTION: the engines cannot be used in atmospheres posing risk of explosion.

The Pergola can also be used outdoors or away from the wall of a building (intended use), provided that the system is degree of protection **IP55**.

It needs a 230V/50Hz power supply. Install an upstream electrical switch suitable to 230V/50Hz with magnetothermal and differential functions (see paragraph 6.2. "ELECTRIC CONNECTION"). The electrical switch should be placed in a protected position, in an easy to reach position, high from the ground and away from dangerous areas.



ATTENTION!: Corrosion resistance is not guaranteed in the event of immersion or sprays with salt water (sea storms, etc.). Also, with intense exposure to salty fog, incrustations or bubbles could appear in the connections or aluminium profiles and oxide or rust could appear on the stainless steel brackets. These conditions are not covered by warranty.



CAUTION: No person should install or place ladders or other fixed objects in such a way as to obstruct the movement of the blades.

2.3 OPTIONAL SAFETY DEVICES

Wind sensor: The wind sensor detects the wind speed. It has the highest priority among the sensors. If the alarm is active, the control unit moves the slats at 30% of the opening.

The device does not perform any command during the status of alarm and it resumes its normal operation when the alarm is not active anymore. The alarm is off when the sensor detects for 60 seconds a speed lower than the set threshold.

Alarm priority: HIGH.

The default sensor is ENABLED.

Wind sensor threshold: With DIP SWITCH 1, 2 and 3 it is possible to set the wind speed alarm threshold (Km/h):

DIP 1	DIP 2	DIP 3	Km/h
OFF	OFF	OFF	40
OFF	OFF	ON	45
OFF	ON	OFF	50
OFF	ON	ON	55
ON	OFF	OFF	60
ON	OFF	ON	65
ON	ON	OFF	70
ON	ON	ON	75

Rain sensor:

When the sensor detects the rain and the alarm is activated, the device positions the slats of the pergola in closed position. The device doesn't perform any command during the status of alarm. The alarm is off when the sensor doesn't detect the presence of the rain for 20 seconds. By default the sensor is activated. Alarm priority: LOW.

Functioning of the system AFTER the rain alarm (Water draining):

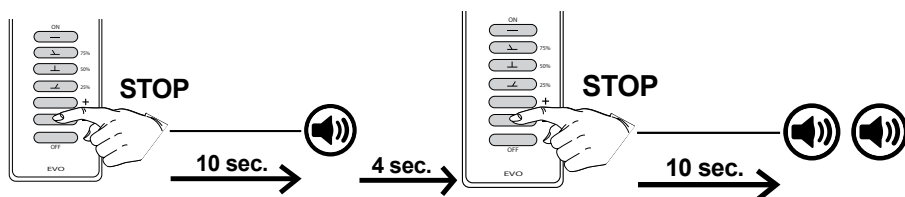
Once the rain alarm is off, for the next 6 hours, as soon as a command of automatic movement sent by transmitter is received, the control unit will move the slats to 33%, to allow the water draining. For 4 minutes the control unit will perform just hold-to-run commands, switching off the alarm status.

Activation/Deactivation of the rain sensor using a transmitter:

In order to perform this procedure at least one transmitter must be memorized (par. 6.2), and it must be performed when the system is stopped. By default the sensor is activated.

Activation: Press for 10 sec. the button "STOP" of transmitter. The buzzer emits for 4 sec. a continuous sound.

Deactivation: Press for 10 sec. the button "STOP" of transmitter. The buzzer emits 2 beeps.



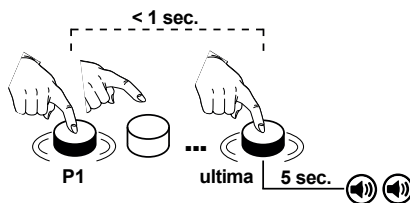
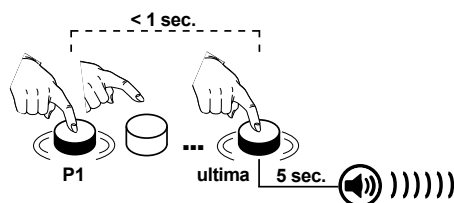
Temperature sensor:

The sensor detects the temperature that could cause the freezing of the pergola slats. If it is under 2°C the alarm is activated, then the control unit moves the slats at the 66% of the opening. The alarm is off when the temperature is over 3°C.

The control unit performs just hold-to-run commands during the status of alarm, and resumes its normal operation when the alarm is not active anymore. By default the sensor is deactivated. Alarm priority: MEDIUM.

Activation of snow configuration (possible only if the temperature sensor is connected): Press 7 times P1 keeping pressed the seventh time for 5 sec. The buzzer emits 3 beeps.

Deactivation of snow configuration: Press 7 times P1 keeping pressed the seventh time for 5 sec. The buzzer emits a continuous sound.



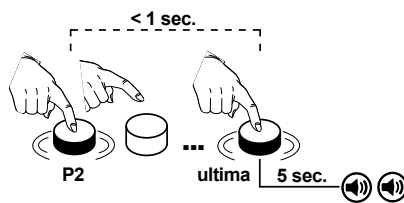
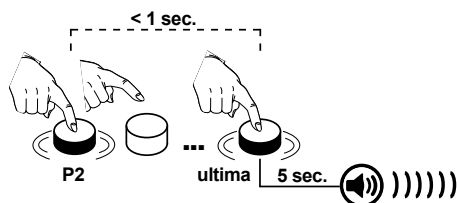
Snow condition (temperature sensor combined with rain sensor):

To manage the alarm related to the condition of snow it's necessary combine temperature sensor and rain sensor. The alarm is on when the temperature is under 2°C and the rain has been detected, then the control unit moves the slats at the 66% of the opening.

The alarm is off when the temperature is over 3°C or when there is no rain detection. The control unit performs just hold-to-run commands during the status of alarm, and resumes its normal operation when the alarm is not active anymore. By default the combination is deactivated. Alarm priority: MEDIUM.

Activation of snow configuration (possible only if the temperature sensor is connected): Press 7 times P2 keeping pressed the **seventh** time for 5 sec. The buzzer emits 3 beeps.

Deactivation of snow configuration: Press 7 times P2 keeping pressed the **seventh** time for 5 sec. The buzzer emits a continuous sound.



Snowmelt system in the blades:

The anti-snow module Gibus is a louvre heating patented system to prevent the build-up or the overaccumulation of snow on bioclimatic louvre roof. It allows to keep the louvres closed even in the event of snow. By default the snowmelt system is activated.



ATTENTION: If the rain sensor is deactivated, the anti-snow system does not work.



IMPORTANT: when there is a snow melting system installed, the linear motor control unit, is a special control unit appropriately configured both in terms of hardware and firmware.



For further information about the motor control unit and for specific phases like transmitters and linear actuators, refer to paragraphs 6.2 and 6.3, and the specific instructions supplied with the control unit and sensors.

2.4 USER AND INSTALLER REQUIREMENTS

The normal use of the Bioclimatic Pergola is allowed to everyone, except those younger than 12 years. The installation of the Bioclimatic Pergola and of the electrical system, the adjustment of the Pergola and the setting of the engines limit switch, as well as maintenance must be performed by qualified personnel only. The installation of the Pergola adjustments must be performed strictly in accordance with the manufacturer's instructions provided in this manual and especially following the attached Installation Instructions referred to in the pertinent sections of this manual (Chap. 6 and Chap. 7).

2.5 RECOMMENDATIONS

In the manual and especially in the attached Installation Instructions referred to in the pertinent sections of this manual (Chap. 6 and Chap. 7), are listed **all instructions** for proper handling, storage, installation, use and maintenance of the Pergola, in compliance with the product standards and the "Machinery Directive" and to avoid harm to people or damage to the Pergola itself. Are also given instructions to perform properly both dismantling and disposal.



WARNING: The installation of the Pergola and its electrical connection, are only to be carried out by specialized and authorized staff. Any operation on the electrical system must be carried out by trained personnel only. For any doubt or unintended use, consult the manufacturer before installation.



WARNING: The installation of the Pergola must be carried out in accordance with the instructions in this manual. A different installation could result in hazardous situations. In this regard see the sections "SAFE INSTALLATION" and "INSTRUCTIONS FOR PROPER INSTALLATION" and the installation instructions attached to this manual and inside the package.



WARNING: You can not alter or modify the Pergola. Any changes or modifications made without proper authorization by the manufacturer, relieves the latter from any liability for any damage that may result and void the warranty.



ATTENTION: it is strictly forbidden to carry out operations using open flames in the vicinity of the Pergola.

Recommendations to be taken in the presence of staff (only if staff is working under the structure):

- if the structure is installed as a stand-alone structure, assess the lighting hazard according to Law Decree 81/08 (in the Chapter III of Title III) by applying the technical reference regulations such as CEI EN 62305-2 (CEI 81-10/2).
- If the structure leans against an existing building, carry out the lighting hazard assessment again in accordance with Law Decree 81/08 (in chapter III of Title III) by applying the technical reference regulations such as CEI EN 62305-2 (CEI 81-10/2).

CHAPTER 3: TECHNICAL DESCRIPTION

The Bioclimatic Pergola of the **VARIA** line were designed and built according to the principles of constant innovation, impeccable workmanship and attention to the details of **Gibus Total Quality**. A system of values designed to ensure complete customer satisfaction.

the **VARIA ISLAND** It is a bioclimatic pergola with an aluminium brise soleil, built in a special and dedicated self-supporting structure that is installed in a stand-alone way and isolated from any building.

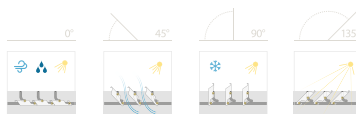
For the **VARIA LEANING VERSION** the structure dedicated must be leaned against the wall of a building.

The cover is formed of swinging metal blades. When it is sunny, open the blades to provide the required shade for improved outdoor comfort and a natural airflow that carries the hot air upwards. When it rains the closed blades offer protection and carry the water to the gutters incorporated in the supporting structure. Two synchronized linear motors enable moving the blades by remote control.

The Bioclimatic Pergola is equipped with several patented systems to facilitate and speed up the installation work and improve the performance of the product:



Gibus Patent® **Twist Motion**: a side holding system for the blades resting on a seal along the inside edge that provides isolation from the outside.



Gibus Patent® **Side Seal**: a side holding system for the blades resting on a seal along the inside edge that provides isolation from the outside.



Gibus Patent® **Quick Assembly**: Quick connection system of the supporting structure free from exposed fastening elements.



Gibus Patent® **Snow Melt System**: heating system to prevent snow accumulation.



Gibus Patent® **Inner Guide**: Guide system integrated into the legs of the structure for side drop awnings of VARIA.



Gibus Patent® **Safe Blades**: System for louvre motion control.



Gibus Patent® **Blade Seal**: Blades sealing system.



Registered design.

3.1 STRUCTURAL AND MECHANICAL COMPONENTS

The Gibus bioclimatic pergola is formed by a self-supporting structure or It is attached to a wall, made from painted aluminium and with side guides and built-in gutters, supporting legs measuring 170x170 mm, and cover formed by adjustable swinging brise soleil blades.

The couplings include stainless steel brackets, painted extruded aluminium parts, stainless steel nuts and bolts. The movement drive system is on side guides with linear actuators, which are remotely controlled.

Side drop awnings with box and roller integrated in the guides/bars and fabric guided by ZIP system. Built-in ZIP guides built-in the bars/columns. Guided front profile. Controlled by a tubular motor. Galvanized iron roller of 85 mm diameter.

The guide profiles, adjustable blades, bearing structure beams are extruded Anticorodal EN AW 6060 UNI EN 573-03 UNI EN 755-2 that is then treated with anticorrosion phosphochromatisation painted with thermosetting polyester powder.

The plastic components are melted in fiberglass and nylon plastic. Stainless steel screws.



ATTENTION!: Corrosion resistance is not guaranteed in the event of immersion or sprays with salt water (sea storms, etc.). Also, with intense exposure to salty fog, incrustations or bubbles could appear in the connections or aluminium profiles and oxide or rust could appear on the stainless steel brackets. These conditions are not covered by warranty.

3.2 ELECTRICAL COMPONENTS

The VARIA motors are compact 24VDC linear actuators. They have a maximum thrust or pull of 2000 (N), IP66 protection class. Run length: 250 mm, extractable pistons. Noise level: max. 58.5 dB (A), (rated voltage and without load, in compliance with EN ISO 3743-1 standard). Working temperature: -10°C to +50°C (in compliance with ISO 7176-9 standard). Endstops controlled by a dedicated electronic control unit.

The tubular motors of the side blinds are single-phase, asynchronous and irreversible; they are **equipped with thermal protection at 140°C for safety devices against overheating**. They are equipped with a condenser, electromechanical brake assembly, two limit switches and mechanical scaler for the reduction of primary turns at 12 or 17 [rev/min] outputs.

The type of engine used on the awnings is indicated in the product sheet.

ATTENTION: The electrical insulation level of the power supply group of the Bioclimatic Pergola (blade movement, Led Spot and RYB leds, audio system) is Class II.



Tubular motors of side awnings instead have electrical insulation level of Class I. Other options and accessories have electrical insulation level of Class I: snowmelt system with heating blades, antifreeze system or heaters. In this case (Class I) must be grounded the structure (Class I) except in the case of a pergola without side awnings and without accessories.



ATTENTION: the pergola must be earthed.



ATTENTION: The product needs a 230V/50Hz power supply.

Upstream a magnetothermal and differential switch must be installed with the characteristics defined in the table below. If there is more than one output line from the pergola, each single line must be protected. Provide power cables as defined in the table below.

VARIA Electric Features

Type	Bioclimatic pergola.		
Power supply	230 V (+ 10% +15%) 50Hz (*)		
Max. absorbed power	240 W (max. 1,5 A) for standard configuration modules (only blade movement) +max. 200 W for each side awning (absorbed only during actuation) +max. 240 W with blade Led Spot +max. 240 W with perimeter Led Spot +max. 320 W with RYB leds +max. 750 W with antifreeze system Tot. max. 3000 W (13,0 A) Refer to the labels on the outputs on each single line. For the other accessories (snowmelt system, audio system, side awnings and heaters) refer to the power levels defined in the catalogue.		
Insulation class	Class II (the structure must not be earthed) for standard configuration modules (blade movement and Spot White lights and with RYB). Class I (the structure must be earthed) for standard configuration modules (tubular motors).		
Connection mode	by IP68 Male/female connector.		
Power cable (supplied by the customer)	YOU NEED a double insulated cable. Provide a cable: H07RN-F type with minimum formation dependent on power		
For max power:	up to 2 kW	up to 3 kW	up to 5 kW
up to 30 m	3G 1,5 mm ²	3G 2,5 mm ²	3G 4,0 mm ²
up to 50 m	3G 2,5 mm ²	3G 4,0 mm ²	3G 10,0 mm ²
Upstream protection (supplied by the customer)	Magnetothermal switch and differential switch with intervention current 0,03 A. Type of differential protection: A (**).		
For max power:	up to 2 kW	up to 3 kW	up to 5 kW
Magnetothermal switch features:	2 10A poles Curve C	2 16A poles Curve C	2 25A poles Curve C
Protection against overvoltage	None (provide the electric board with a suitable SPD protection system).		
Operating temperature	-20°C / +55°C		
Degree of protection	IP 44		
"(*) : Or different depending on the place of installation. (**) : If there is more than one output line from the pergola, each single line must be protected. In the case of antifreeze system, the differential must have an intervention current of 0.01A (dedicated line). In case of Schuko socket, the differential must be of the AC type and the intervention current of 0.03A."			



IMPORTANT: The instructions specific for engines and controls are supplied upon delivery of the Bioclimatic Pergola. These instructions must be read, annexed to this manual and keep in good condition for any subsequent consultation.

3.3 ELECTRONIC COMPONENTS OF THE AWNING (OPTIONAL)

Upon optional request the Bioclimatic Pergola can be managed electronically **in its functions with control of the weather conditions**. In this case, the Bioclimatic Pergola can be fitted with additional electronic sensors for wind, rain, temperature, and snow (see paragraph 2.3 and 2.4). **The type of electronic component used on the Pergola is indicated in the product chart.**



CAUTION: Never set the wind speed above the wind resistance of the awning itself (maximum threshold recommended for VARIA: Covering brise soleil blades: 60 km/h; perimeter drop awnings: 40 km/h).



IMPORTANT: The installation and maintenance instructions of the control units and sensors are attached to the control unit packages, which are delivered along with the Bioclimatic Pergola or placed in the accessory box. These instructions must be read, annexed to this manual and keep in good condition for any subsequent consultation.

3.4 FABRIC COMPONENTS

The type of fabric used on the awning is indicated in the product sheet. For the type of fabric recommended for each model, refer to current price list.

PACKAGING THE FABRIC COVERS

Seams: made with TENARA wire® by GORE in PTFE (polytetrafluoroethylene) unaffected by UV rays and chemical agents; they are guaranteed for 10 years.

Seals of PVC tissue by fusion. **Trimming:** 100% acrylic fibre.

The fabric can be of the following types:

PVC Precontraint 622 fabric - BLOCK-OUT

PVC polyester fabric coated on 2 sides with FERRARI® PRECONTRAINT technology. Shade with glossy or matt lacquered finishing. Thickness 0.65 mm, weight approximately 750 g/m². Excellent dimensional stability. Weldable. Tensile strength (ISO 1421): warp 230 daN/5 cm, weft 220 daN/5 cm. Light resistance (DIN 53388): level 8/8 Fireproof according to the Italian CL.2, German B1 and French M2 regulations.

PVC Poly HR Opatex fabric

PVC coated polyester inner side, outside corrugated with dust-proof acrylic paint. Double inner black coating. 850 g/m². Tear strength: warp 250 Kg, weft 250 Kg (DIN 53354). Fireproof according to the Italian CL.2, German B1 and French M2 regulations.

PVC Precontraint 302 fabric

PVC polyester coated on 2 sides and glossy lacquered. 480 g/m². Breaking load: warp 140 kg - weft 15 kg (DIN 53354). 100% Waterproof - Fireproof Class 2.

PVC fabric - SBO 37 - BLACKOUT

PVC coated highly resistant polyester fabric. Blocks light thanks to the interior black coating. Embossed inner side. Thickness 0.52 mm. Weight 650 g/m². Tensile strength (ISO 1421): warp 210 daN/5 cm, weft 150 daN/5 cm. Light resistance (ISO 105 B02 1988): level 7/8. Fireproof according to the Italian CL.2 and French M2 regulations.

SOLTIS 86 fabric

1100 dtex polyester coated on 2 perforated PVC sides and glossy lacquered. 380 g/m². Breaking strength: warp 230 kg - weft 160 kg Fireproof class 1 UNI 9177-87.

SOLTIS 92 shading fabric

1100 dtex polyester coated on 2 perforated PVC sides and glossy lacquered. 420 g/m². Breaking strength: warp 310 kg - weft 210 kg Fireproof class 1 UNI 9177-87.

SOLTIS 96-W96 fabric

1100 dtex polyester coated on 2 perforated PVC sides and glossy lacquered. 400 g/m². Breaking strength: warp 220 kg - weft 220 kg Fireproof class 1 UNI 9177-87. Only W96 100% Waterproof.

SOLTIS 88 fabric

Polyester coated on 2 perforated PVC sides, micro-perforated and glossy lacquered. Thickness 0.45mm, 360 g/m². Breaking load: warp 140 daN/5 cm - weft 145 daN/5 cm. Fireproof class 1 UNI 9177-87. 100% recyclable.

TEMPOTEST STARLIGHT® polyester fabric

100% polyester mass dyed outdoor 360g/m². Breaking load: warp 210kg - weft 180Kg (UNI EN ISO 13934-1/2000). Water Column ≥ 1000mm (UNI EN 20811). Waterproof (UNI EN 24920). Oil resistance value 5/6 (AATCC118). Resistant to dirt, excellent dimensional stability.

TEMPOTEST STARLIGHT RESIN TREATED® polyester fabric

100% polyester mass dyed outdoor 330g/m². Breaking load: warp 190 Kg - weft 120Kg (UNI EN ISO 13934-1/2000). Water Column ≥ 700mm (UNI EN 20811). Waterproof (UNI EN 24920). Oil resistance value 5 (AATCC118). Resistant to dirt, excellent dimensional stability.

TEMPOTEST STARLIGHT FIRE RETARDANT VERSION®

Fire retardant Class 1, B1, NFPA701-10, MVSS 302 and IMO

100% polyester mass-dyed outdoor 300 g/m². Breaking load: warp 210 kg - weft 180Kg (DIN EN ISO 13934-1/2000). Water Column ≥ 300mm (UNI EN 20811). Waterproof (UNI EN 24920). Oil resistance value 5 (AATCC118). Resistant to dirt, excellent dimensional stability.

Acrylic Fabric

100% "outdoor" used acrylic fibre, mass-dyed 300 g/m². Thickness 0,56 mm - Stain-proof - anti-decay - water-proof with Teflon treatment. Breaking load: warp 130 kg - weft 80 kg (UNI 8639). Water-proof (UNI EN 24920) Water column > 300 mm (UNI 5122).

FABRISCREEN Polyester Screen Fabric

Screen fabric made of 25% polyester (internal) and 75% PVC (external). Screen fabric for outdoor protection from the sun, thickness 0.8 mm, weight approximately 510 g/m² (ISO 2286-2), Tensile strength warp approximately 105 daN/5cm, weft approximately 100 daN/5cm, Fireproof Class 1 (IT: UNI 9177) B1 (DE: DIN 4102-1).

STARSCREEN polyester Screen Fabric

Screen fabric in 100% FR polyester, mass-dyed thread for outdoors, thickness 0.5 mm, weight approximately 220 g/m² (ISO 2286-2), Tensile strength warp approximately 120 daN/5cm, weft approximately 92 daN/5cm, water and oil repellent finish with Teflon treatment, opening coefficient 5.5%, Fireproof Class 1 (IT: UNI 9177) B1 (DE: DIN 4102-1).

Fabric SCREEN SERGE 600

PVC coated fibreglass base fabric, 42% fiberglass 58% PVC, Thickness 0,55 mm ±5%, Weight 535 g/m², Flammability M1 (NF P92-503), CL.1 (UNI 9177), B1 (DIN 4102), C (BS 5867), Tensile strength (ISO 1421) warp: ca 260 DaN/5 cm - weft: ca 225 DaN/5 cm, Openness factor 5 %, Elongation at break warp: 3,1 % - weft: 2,75 %.



IMPORTANT: the fabrics used are guaranteed for a period of 5 years in the case that the warranty is extended, following a normal exposure to the action of the sun and atmospheric agents in general, and the action of moulds and micro-organisms.

3.5 COMPLEMENTARY MATERIALS

Cristal PLUS 500 2S

Transparent PVC film stabilised for UV rays. 610 g / sqm, thickness 0.5 mm. 100% waterproof. Tensile strength: length 220 kg /cm² - height 210 kg /cm² (ASTM D882). On request: FR version with fire resistance class 2.

Cristal RES HUVF

Film in grey transparent PVC-P stabilised for UV rays. There is improved shielding from light with a shade effect, with a tinted version of the film. Weight 550 g/m², thickness 0.45 mm. 100% Waterproof. Tensile strength: length 60 daN/5cmq – height 60 daN/5cmq (ASTM D882).

FABRINET MOSQUITO NET

Polyester mosquito netting with high mechanical resistance to accidental impact. 100% polyester thread 6.5 x 5.5 threads/cm, PVC coating, thickness 0.51 mm, fabric weight approximately 200 g/m², tensile strength 110 daN/5cm, weight approximately 85 daN/5cm, glossy lacquered finish, opening coefficient 50%. Fireproof Class 1 (UNI 9177).



IMPORTANT!: the Cristal is guaranteed for 2 years.



The most commonly used fabrics are reported in sections 3.4 and 3.5. Current samples used at the time of sale could include others. To learn more about the features of these fabrics consult the current sample.

3.6 BIOCIDAL PRODUCTS



The EU 528/2012 European Regulation and the “Regulations 2019 (SI 2019/720)” (GB biocidal products Regulation) rule the trade and use of biocidal products which are agents with antifungal action or intended to render other harmful organisms harmless.



ATTENTION: Some of the fabrics used by Gibus to package its products undergo treatments with biocidal products. For more information and to know the type of biocidal product possibly used in treating the fabric of your awning please visit our website: www.gibus.com

3.7 NOISE LEVEL

The measured noise (sound pressure level) is less than 60 dB (A).

CHAPTER 4: TECHNICAL DATA

4.1 TYPE

VARIA ISLAND (Basic Module)



With 4 legs:
Width up to 500 cm
Projection up to 600 cm

With 6 legs:
Width up to 500 cm
Projection up to 740 cm

VARIA FRONTAL LEANING VERSION (Basic Module)

blades parallel to wall



With 2 legs:
Width up to 500 cm
Projection up to 600 cm

With 4 legs:
Width up to 500 cm
Projection up to 740 cm

VARIA LATERAL LEANING VERSION (Basic Module)

blades perpendicular to wall

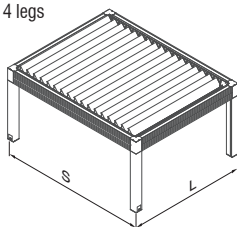


With 2 legs:
Width up to 600 cm
Projection up to 500 cm

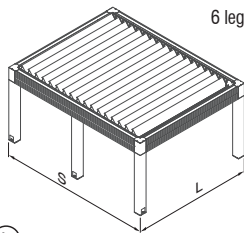
With 3 legs:
Width up to 740 cm
Projection up to 500 cm

4.2 VARIA ISLAND

4 legs



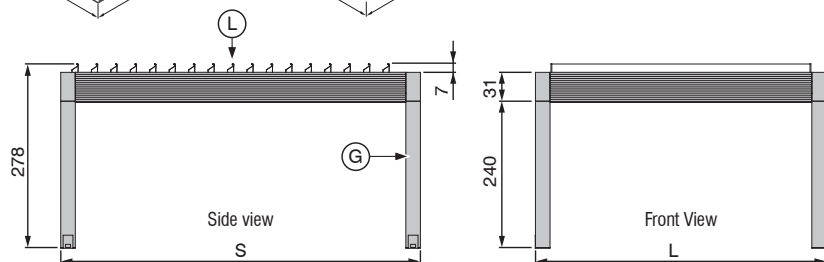
6 legs



ISLAND - SINGLE MODULE

4 LEGS max. L x S 5.00 x 6.00

6 LEGS max. L x S 5.00 x 7.40



1 Module	WIDTH "L" (cm)													G	L
	200	225	250	275	300	325	350	375	400	425	450	475	500	n°	n°
PROJECTION "S" (cm)	200	291	306	320	334	348	362	377	393	407	425	440	455	470	8
	220	305	320	335	350	365	380	395	411	426	445	460	475	490	9
	240	319	334	350	366	382	398	413	429	445	465	480	495	510	10
	260	332	349	365	382	398	415	431	448	464	485	500	515	530	11
	280	346	363	380	398	415	432	449	467	484	505	520	535	550	12
	300	359	377	395	413	431	449	467	485	503	525	540	555	570	13
	320	373	391	410	429	448	467	485	504	523	545	560	575	590	14
	340	386	406	425	445	464	484	503	523	542	565	580	595	610	15
	360	400	420	440	461	481	501	521	541	562	585	600	615	630	16
	380	413	434	455	476	497	518	539	560	581	605	620	635	650	17
	400	427	449	470	492	514	535	557	579	601	625	640	655	670	18
	420	440	463	485	508	530	553	575	598	620	645	660	675	690	19
	440	454	477	500	524	547	570	593	616	639	665	680	695	710	20
	460	467	491	515	539	563	587	611	635	659	685	700	715	730	21
	480	481	506	530	555	580	604	629	654	678	705	720	735	750	22
	500	495	520	545	571	596	622	647	672	698	725	740	755	770	23
	520	508	534	560	587	613	639	665	691	717	745	760	775	790	24
	540	522	548	575	602	629	656	683	710	737	765	780	795	810	25
	560	535	563	590	618	646	673	701	728	756	785	800	815	830	26
	580	549	577	605	634	662	690	719	747	776	805	820	835	850	27
	600	562	591	620	649	679	708	737	766	795	825	840	855	870	28
	620	621	650	680	710	740	770	800	829	859	885	910	935	960	29
	640	634	665	695	726	756	787	817	848	879	900	910	935	960	30
	660	648	679	710	742	773	804	835	867	898	915	935	960	985	31
	680	661	693	725	757	789	821	853	885	918	940	960	985	1010	32
	700	675	707	740	773	806	839	871	904	937	965	985	1010	1035	33
	720	688	722	755	789	822	856	889	923	956	990	1010	1035	1060	34
	740	700	735	770	805	840	875	910	945	980	1015	1035	1060	1085	35

Legend:

kg = Total pergola weight including the supporting structure and brise soleil blades, without side drop awnings.

G = Legs.

L = Brise soleil blades.



IMPORTANT: For each size the load shown in the table is still greater or equal than the one provided by Class 4 - UNI EN 13561 / UNI EN 1932 (nominal load continuously distributed on the extended surface equal to approximately 20,5 [kg/m²] or 204 [N/m²]).

Indicative Maximum vertical load [kg/m²]										
"S" \ "L"	G	L	200	250	300	350	400	450	500	
200	4	8	950	750	510	320	280	180	150	
300		13	930	720	500	310	270	170	140	
400		18	900	700	490	300	260	160	130	
500		23	620	530	390	270	220	155	130	
600	6	28	385	325	265	210	175	140	120	
620		29	860	720	500	310	240	160	140	
720		34	840	650	455	255	200	145	130	
740		35	700	600	400	220	180	130	110	

Snow load without wind [kg/m²]										
"S" \ "L"	G	L	200	250	300	350	400	450	500	
200	4	8	650	460	330	200	180	120	90	
300		13	620	450	320	190	170	110	90	
400		18	600	440	310	180	160	100	85	
500		23	400	340	250	170	140	95	80	
600	6	28	240	200	165	130	110	90	70	
620		29	560	460	320	200	150	100	85	
720		34	500	420	295	170	130	90	80	
740		35	400	340	260	130	100	70	60	



The values reported in the table on the right, show the snow load resistance when there is no wind. The pergola structure and cover are designed and certified to resist a deposited snow load (with no wind) that varies by size.

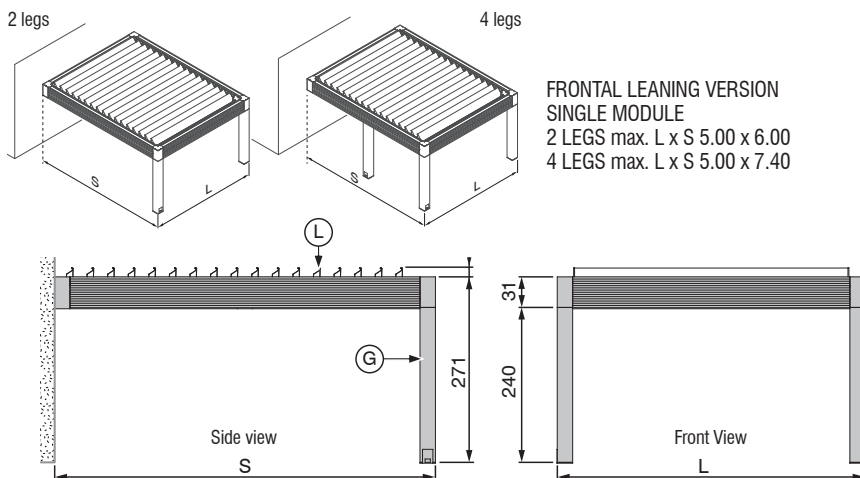
In case of snow, it is advised to the blades must be placed vertically (open) before the snow settles on them. Do not stand under or near the pergola if any snow has deposited on it.

LEGEND - "BEAUFORT" WIND SCALE						
GRADE 12	GRADE 11	GRADE 10	GRADE 9	GRADE 8	GRADE 7	GRADE 6
Hurricane Force	Violent storm	Storm	Strong gale	Gale	High wind	High wind

Wind Resistance [kg/m²] Without Integrated ZIP Screens										
"S" \ "L"	G	L	200	250	300	350	400	450	500	
200	4	8	220	180	150	120	100	75	60	
240		10	210	175	145	115	95	70	55	
280		12	210	170	140	115	90	65	50	
320		14	200	165	135	110	85	60	50	
360	4	16	200	160	132	110	80	55	45	
400		18	200	155	130	105	76	50	45	
440		20	185	145	120	100	70	45	40	
480		22	172	136	110	90	65	45	40	
520	6	24	158	127	105	80	60	40	38	
560		26	144	118	95	75	55	38	37	
600		28	131	109	87	65	51	38	37	
620		29	199	154	110	80	65	45	40	
660	6	31	188	147	106	75	60	40	38	
700		33	177	140	103	65	51	37	37	
740		35	160	120	101	60	45	37	34	

Wind Resistance [kg/m²] Integrated ZIP Screens closed or semi-closed on 2 or 4 sides										
"S" \ "L"	G	L	200	250	300	350	400	450	500	
200	4	8	249	215	181	146	117	89	75	
240		10	243	210	176	143	116	89	73	
280		12	237	205	172	140	114	89	70	
320		14	231	199	168	137	113	89	68	
360	4	16	225	194	164	134	111	89	65	
400		18	218	189	160	131	110	89	63	
440		20	201	176	150	125	106	87	60	
480		22	183	162	140	119	103	86	57	
520	6	24	166	148	131	113	99	85	55	
560		26	148	135	121	108	96	84	52	
600		28	131	121	111	102	92	82	50	
620		29	82	82	82	82	82	82	60	
660	6	31	73	73	73	73	73	73	55	
700		33	64	64	64	64	64	64	45	
740		35	60	60	60	60	60	60	37	

4.3 VARIA FRONTAL LEANING VERSION



FRONTAL LEANING VERSION
SINGLE MODULE
2 LEGS max. L x S 5.00 x 6.00
4 LEGS max. L x S 5.00 x 7.40

1 Module	WIDTH "L" (cm)													G	L
	200	225	250	275	300	325	350	375	400	425	450	475	500	n°	n°
PROJECTION "S" (cm)	200	248	263	277	291	305	319	334	348	364	385	400	415	430	8
	220	262	277	292	307	322	337	352	367	383	405	420	435	450	9
	240	276	291	307	323	339	355	370	386	402	425	440	455	470	10
	260	289	306	322	339	355	372	388	405	421	445	460	475	490	11
	280	303	320	337	354	372	389	406	424	441	465	480	495	510	12
	300	316	334	352	370	388	406	424	442	460	485	500	515	530	13
	320	330	348	367	386	405	423	442	461	480	505	520	535	550	14
	340	343	363	382	402	421	441	460	480	499	525	540	555	570	15
	360	357	377	397	417	438	458	478	498	519	545	560	575	590	16
	380	370	391	412	433	454	475	496	517	538	565	580	595	610	17
	400	384	406	427	449	471	492	514	536	557	585	600	615	630	18
	420	397	420	442	465	487	510	532	554	577	605	620	635	650	19
	440	411	434	457	480	504	527	550	573	596	625	640	655	670	20
	460	424	448	472	496	520	544	568	592	616	645	660	675	690	21
	480	438	463	487	512	537	561	586	611	635	665	680	695	710	22
	500	451	477	502	528	553	578	604	629	655	685	700	715	730	23
	520	465	491	517	543	570	596	622	648	674	705	720	735	750	24
	540	479	505	532	559	586	613	640	667	694	725	740	755	770	25
	560	492	520	547	575	603	630	658	685	713	745	760	775	790	26
	580	506	534	562	591	619	647	676	704	732	765	780	795	810	27
	600	519	548	577	606	636	665	694	723	752	785	800	815	830	28
	620	577	607	637	667	697	727	756	786	816	825	845	870	895	29
	640	591	622	652	683	713	744	774	805	836	850	870	895	920	30
	660	605	636	667	698	730	761	792	824	855	875	895	920	945	31
	680	618	650	682	714	746	778	810	842	874	900	920	945	970	32
	700	632	664	697	730	763	796	828	861	894	925	945	970	995	33
	720	645	679	712	746	779	813	846	880	913	950	970	995	1020	34
	740	660	695	730	765	800	835	870	905	940	975	995	1020	1045	35

Legend:

kg = Total pergola weight including the supporting structure and brise soleil blades, without side drop awnings.

G = Legs.

L = Brise soleil blades.



IMPORTANT: For each size the load shown in the table is still greater or equal than the one provided by Class 4 - UNI EN 13561 / UNI EN 1932 (nominal load continuously distributed on the extended surface equal to approximately 20,5 [kg/m²] or 204 [N/m²]).

Indicative Maximum vertical load [kg/m ²]										
"S" \ "L"	G	L	200	250	300	350	400	450	500	
200	2	8	930	720	550	400	320	220	160	
300		13	900	690	500	350	260	190	140	
400		18	870	670	420	270	230	170	130	
500		23	550	470	320	220	210	170	130	
600		28	300	240	190	150	130	110	100	
620	4	29	860	720	500	280	220	155	130	
720		34	840	650	450	255	190	140	130	
740		35	700	600	400	220	180	130	110	

Snow load without wind [kg/m ²]										
"S" \ "L"	G	L	200	250	300	350	400	450	500	
200	2	8	600	460	350	280	200	150	90	
300		13	580	450	320	240	160	120	90	
400		18	560	440	280	160	130	100	80	
500		23	350	300	220	130	120	90	75	
600		28	200	150	120	90	80	70	65	
620	4	29	550	460	320	160	140	90	85	
720		34	550	420	290	160	120	80	80	
740		35	400	340	260	130	100	70	60	



The values reported in the table on the right, show the snow load resistance when there is no wind. The pergola structure and cover are designed and certified to resist a deposited snow load (with no wind) that varies by size.

In case of snow, it is advised to the blades must be placed vertically (open) before the snow settles on them. Do not stand under or near the pergola if any snow has deposited on it.

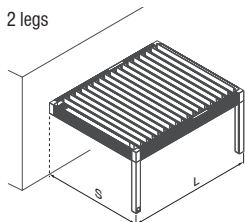
LEGEND - "BEAUFORT" WIND SCALE						
GRADE 12	GRADE 11	GRADE 10	GRADE 9	GRADE 8	GRADE 7	GRADE 6
Hurricane Force	Violent storm	Storm	Strong gale	Gale	High wind	High wind

Wind Resistance [kg/m ²] Without Integrated ZIP Screens										
"S" \ "L"	G	L	200	250	300	350	400	450	500	
200	2	8	220	175	145	115	100	75	60	
240		10	210	170	140	115	95	70	55	
280		12	210	165	135	110	90	65	50	
320		14	200	160	132	110	85	60	50	
360		16	200	155	130	105	80	55	45	
400	2	18	200	155	130	105	75	50	45	
440		20	177	138	100	61	65	45	40	
480		22	155	122	90	57	55	45	40	
520		24	133	106	80	53	50	40	38	
560		26	111	90	70	49	45	38	37	
600	4	28	89	74	60	45	41	38	37	
620		29	199	154	110	75	65	45	40	
660		31	188	147	106	70	60	40	38	
700		33	177	140	103	65	51	37	37	
740		35	160	120	95	60	45	37	34	

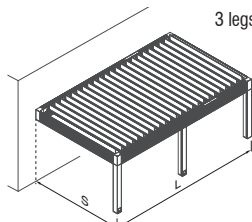
Wind Resistance [kg/m ²] Integrated ZIP Screens closed or semi-closed on 2 or 4 sides										
"S" \ "L"	G	L	200	250	300	350	400	450	500	
200	2	8	476	366	256	160	120	100	88	
240		10	428	334	240	150	120	100	82	
280		12	381	302	224	150	120	100	77	
320		14	333	271	208	146	117	88	71	
360		16	286	239	192	146	117	88	65	
400	2	18	238	207	177	146	117	88	60	
440		20	214	186	159	132	107	82	55	
480		22	189	165	142	118	97	77	50	
520		24	164	144	124	104	87	71	45	
560		26	140	123	107	90	78	65	40	
600	4	28	115	102	89	76	68	60	40	
620		29	100	100	90	90	88	79	60	
660		31	79	79	79	79	69	69	55	
700		33	69	69	69	65	60	55	45	
740		35	65	65	60	55	55	45	37	

4.4 VARIA LATERAL LEANING VERSION

2 legs



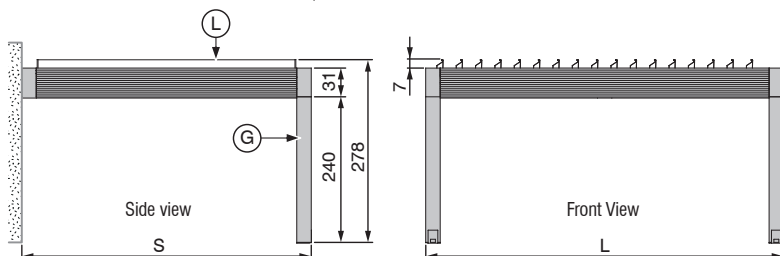
3 legs



LATERAL LEANING VERSION SINGLE MODULE

2 LEGS max. S x L 5.00 x 6.00

3 LEGS max. S x L 5.00 x 7.40



1 Module	WIDTH "L" (cm)													G	L
	200	225	250	275	300	325	350	375	400	425	450	475	500	n°	n°
PROJECTION "S" (cm)	200	248	263	277	291	305	319	334	348	364	385	400	415	430	8
	220	262	277	292	307	322	337	352	367	383	405	420	435	450	9
	240	276	291	307	323	339	355	370	386	402	425	440	455	470	10
	260	289	306	322	339	355	372	388	405	421	445	460	475	490	11
	280	303	320	337	354	372	389	406	424	441	465	480	495	510	12
	300	316	334	352	370	388	406	424	442	460	485	500	515	530	13
	320	330	348	367	386	405	423	442	461	480	505	520	535	550	14
	340	343	363	382	402	421	441	460	480	499	525	540	555	570	15
	360	357	377	397	417	438	458	478	498	519	545	560	575	590	16
	380	370	391	412	433	454	475	496	517	538	565	580	595	610	17
	400	384	406	427	449	471	492	514	536	557	585	600	615	630	18
	420	397	420	442	465	487	510	532	554	577	605	620	635	650	19
	440	411	434	457	480	504	527	550	573	596	625	640	655	670	20
	460	424	448	472	496	520	544	568	592	616	645	660	675	690	21
	480	438	463	487	512	537	561	586	611	635	665	680	695	710	22
	500	451	477	502	528	553	578	604	629	655	685	700	715	730	23
	520	465	491	517	543	570	596	622	648	674	705	720	735	750	24
	540	479	505	532	559	586	613	640	667	694	725	740	755	770	25
	560	492	520	547	575	603	630	658	685	713	745	760	775	790	26
	580	506	534	562	591	619	647	676	704	732	765	780	795	810	27
	600	519	548	577	606	636	665	694	723	752	785	800	815	830	28
	620	577	607	637	667	697	727	756	786	816	825	845	870	895	29
	640	591	622	652	683	713	744	774	805	836	850	870	895	920	30
	660	605	636	667	698	730	761	792	824	855	875	895	920	945	31
	680	618	650	682	714	746	778	810	842	874	900	920	945	970	32
	700	632	664	697	730	763	796	828	861	894	925	945	970	995	33
	720	645	679	712	746	779	813	846	880	913	950	970	995	1020	34
	740	660	695	730	765	800	835	870	905	940	975	995	1020	1045	35

Legend:

kg = Total pergola weight including the supporting structure and brise soleil blades, without side drop awnings.

G = Legs.

L = Brise soleil blades.



IMPORTANT: For each size the load shown in the table is still greater or equal than the one provided by Class 4 - UNI EN 13561 / UNI EN 1932 (nominal load continuously distributed on the extended surface equal to approximately 20,5 [kg/m²] or 204 [N/m²]).

Indicative Maximum vertical load [kg/m ²]										
"S" \ "L"	G	L	200	250	300	350	400	450	500	
200	2	8	930	720	550	400	320	220	160	
300		13	900	690	500	350	260	190	140	
400		18	870	670	420	270	230	170	130	
500		23	550	470	320	220	210	170	130	
600		28	300	240	190	150	130	110	100	
620	3	29	860	720	500	280	220	155	130	
720		34	840	650	450	255	190	140	130	
740		35	700	600	400	220	180	130	110	

Snow load without wind [kg/m ²]										
"S" \ "L"	G	L	200	250	300	350	400	450	500	
200	2	8	600	460	350	280	200	150	90	
300		13	580	450	320	240	160	120	90	
400		18	560	440	280	160	130	100	80	
500		23	350	300	220	130	120	90	75	
600		28	200	150	120	90	80	70	65	
620	3	29	550	460	320	160	140	90	85	
720		34	550	420	290	160	120	80	80	
740		35	400	340	260	130	100	70	60	



The values reported in the table on the right, show the snow load resistance when there is no wind. The pergola structure and cover are designed and certified to resist a deposited snow load (with no wind) that varies by size.

In case of snow, it is advised to the blades must be placed vertically (open) before the snow settles on them. Do not stand under or near the pergola if any snow has deposited on it.

LEGEND - "BEAUFORT" WIND SCALE						
GRADE 12	GRADE 11	GRADE 10	GRADE 9	GRADE 8	GRADE 7	GRADE 6
Hurricane Force	Violent storm	Storm	Strong gale	Gale	High wind	High wind

Wind Resistance [kg/m ²] Without Integrated ZIP Screens										
"S" \ "L"	G	L	200	250	300	350	400	450	500	
200	2	8	220	175	145	115	100	75	60	
240		10	210	170	140	115	95	70	55	
280		12	210	165	135	110	90	65	50	
320		14	200	160	132	110	85	60	50	
360		16	200	155	130	105	80	55	45	
400	2	18	200	155	130	105	75	50	45	
440		20	177	138	100	61	65	45	40	
480		22	155	122	90	57	55	45	40	
520		24	133	106	80	53	50	40	38	
560		26	111	90	70	49	45	38	37	
600	3	28	89	74	60	45	41	38	37	
620		29	199	154	110	75	65	45	40	
660		31	188	147	106	70	60	40	38	
700		33	177	140	103	65	51	37	37	
740		35	160	120	95	60	45	37	34	

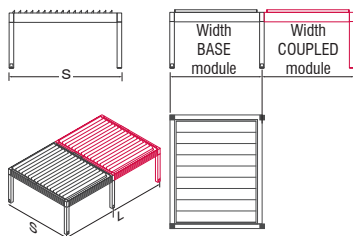
Wind Resistance [kg/m ²] Integrated ZIP Screens closed or semi-closed on 2 or 4 sides										
"S" \ "L"	G	L	200	250	300	350	400	450	500	
200	2	8	476	366	256	160	120	100	88	
240		10	428	334	240	150	120	100	82	
280		12	381	302	224	150	120	100	77	
320		14	333	271	208	146	117	88	71	
360		16	286	239	192	146	117	88	65	
400	2	18	238	207	177	146	117	88	60	
440		20	214	186	159	132	107	82	55	
480		22	189	165	142	118	97	77	50	
520		24	164	144	124	104	87	71	45	
560		26	140	123	107	90	78	65	40	
600	3	28	115	102	89	76	68	60	40	
620		29	100	100	90	90	88	79	60	
660		31	79	79	79	79	69	69	55	
700		33	69	69	69	65	60	55	45	
740		35	65	65	60	55	55	45	37	

4.5 COUPLING MODULE

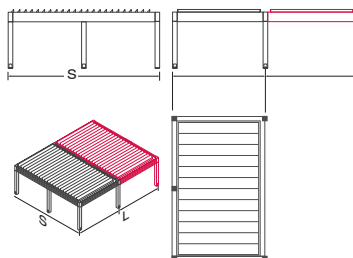
The coupling module enables multiplying the number of spans on the pergola, to form a continuous pergola. The coupled modules share the intermediate uprights. The coupling units can be placed laterally or head on to the basic module; it is possible to couple one or more modules. The drawings shown below are just an example.

VARIA ISLAND WITH COUPLING MODULE TYPE 1 COUPLING

Up to 600 cm.



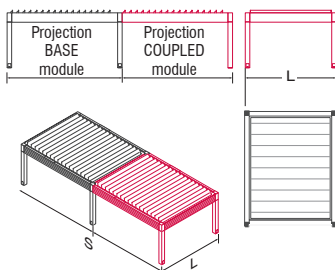
From 620 cm to 740 cm.



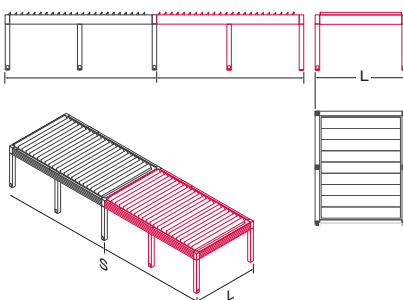
The width of the TYPE 1 coupled module is considered from the leg axis of the base module to the outer leg of the coupled module.

VARIA ISLAND WITH COUPLING MODULE TYPE 2 COUPLING

Up to 583 cm.



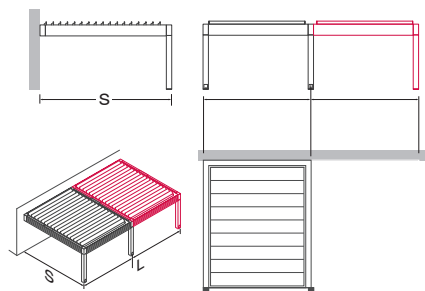
From 603 cm to 723 cm.



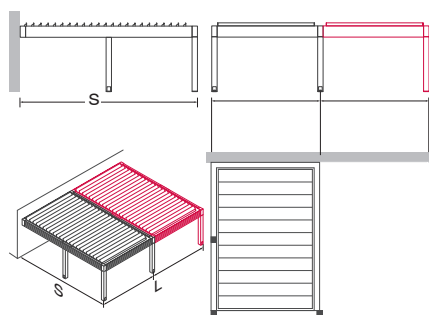
The extension of the TYPE 2 coupled module is different than the extension of the base module because the coupled module does not consider the overall 17 cm dimensions of the coupling leg. The extension of the TYPE 2 coupled module is considered from the leg axis of the base module to the outer leg of the coupled module.

VARIA FRONTAL LEANING VERSION WITH COUPLING MODULE TYPE 1 COUPLING

Up to 600 cm.

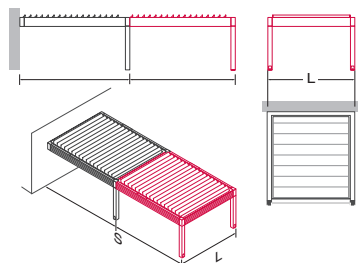


From 620 cm to 740 cm.

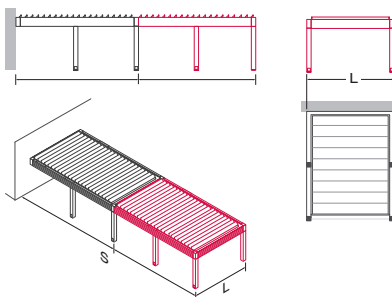


VARIA FRONTAL LEANING VERSION WITH COUPLING MODULE TYPE 2 COUPLING

Up to 583 cm.

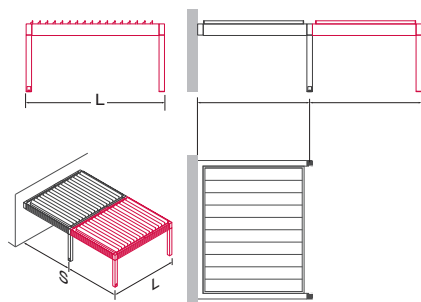


From 603 cm to 723 cm.

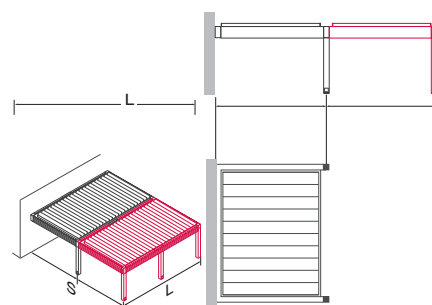


VARIA LATERAL LEANING VERSION WITH COUPLING MODULE TYPE 1 COUPLING

Up to 600 cm.



From 620 cm to 740 cm.

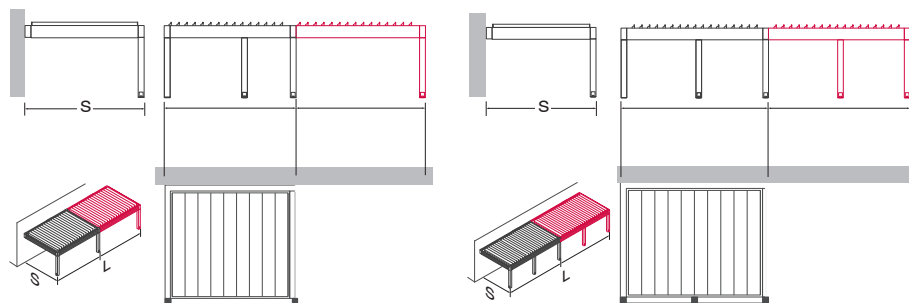


The extension of the TYPE 1 coupled module is considered from the leg axis of the base module to the outer leg of the coupled module.

VARIA LATERAL LEANING VERSION WITH COUPLING MODULE TYPE 2 COUPLING

Up to 583 cm.

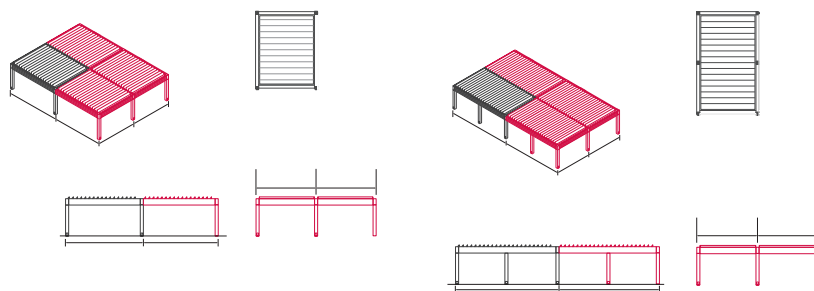
From 603 cm to 723 cm.



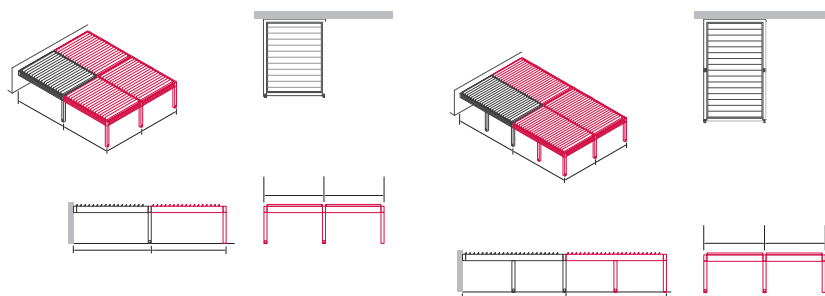
The width of the TYPE 2 coupled module is different than the extension of the base module because the coupled module does not consider the overall 17 cm dimensions of the coupling leg. The width of the TYPE 2 coupled module is considered from the leg axis of the base module to the outer leg of the coupled module.

EXAMPLES OF CONFIGURATION

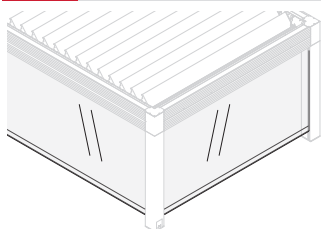
VARIA ISLAND



VARIA FRONTAL LEANING VERSION

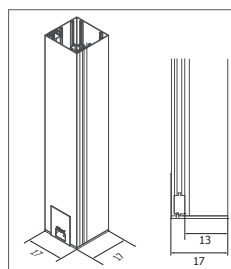
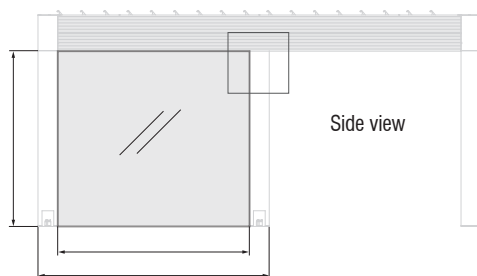


4.6 VARIA SIDE DROP AWNINGS



The side drop awnings to integrate in the VARIA structure include the following:

- fabric with side ZIP, complete with a front section and rolled up in a roller;
- motorized control;
- side guides of the ZIP system, equipped with tension springs to integrate in the legs.



Optional:
Additional dividing leg.

Side drop awnings can be assembled on a VARIA structure already installed.

		LT										
		200	240	280	320	360	400	440	480	520	560	600
		kg										
HG	120	18	20	23	25	28	31	35	38	41	43	47
	160	19	21	24	27	30	33	37	40	43	46	49
	200	20	22	25	28	32	35	38	41	45	48	51
	240	21	23	26	29	33	36	40	43	46	50	53
	280	22	24	28	32	35	39	43	46	50	54	57
	320	23	25	28	32	36	40	43	47	51	55	58

Legend:

kg = total weight of the drop awning.

LT = WIDTH of VARIA side (cm) - NOTE: for the width of the fabric subtract 34 [cm].

HG = Height up to the gutter.

LEGEND - "BEAUFORT" WIND SCALE

GRADE 12	GRADE 11	GRADE 10	GRADE 9	GRADE 8	GRADE 7	GRADE 6
Hurricane Force	Violent storm	Storm	Strong gale	Gale	High wind	High wind

Table of values for the total maximum wind load per sq meter of awning [kg/m²] according to the awning dimensions:

		LT										
		200	240	280	320	360	400	440	480	520	560	600
HG	120	6	6	6	6	6	6	5	5	4	4	3
	160	6	6	6	6	6	5	5	4	4	3	3
	200	6	6	6	6	6	5	5	4	3	3	3
	240	6	6	6	6	6	5	4	4	3	3	3
	280	6	6	6	6	5	4	4	4	3	3	3
	320	6	6	5	5	5	4	4	4	3	3	3

CHAPTER 5: PACKING, HANDLING AND TRANSPORTATION

The Bioclimatic Pergola is packed with Nylon film and polystyrene in double walled corrugated cardboard boxes with reinforced corners to protect the product and lock the parts in place during transport. The components are packed in several parcels given the size and weight of the product (see technical table Chap. 4). The weight of each package can be high, the result is the need for manual handling in two or more persons whenever the weight exceeds 25 kg.

In order to facilitate transport by operators, check the weight of the Pergola depending on its size shown in the technical table on Chapter 4.

Product integrity must be preserved until delivery to the end customer.

For transportation to the customer's premises by the Retailer and / or Manufacturer, it is required prevent scratches to the structure. Damage to the product caused by the dismantling of the awning and subsequent handling and / or transportation performed after installation, are not covered by warranty. To avoid hazardous situations observe the following safety requirements:



ATTENTION: Due to the size and weight of the Pergola and of each individual packaging, make sure that for handling a sufficient number of people is available, so that the weight to be loaded by each person is not more than 25 kg in the case of manual handling (in this regard, check the weight of the Pergola depending on its size in the technical tables on Chapter 4).



CAUTION: Do not store packages in an upright position, or leave them unattended in the area of installation if the Pergola is not yet installed; avoid leaving them unattended in the presence of children. Do not store the pergola in all or part of its packaging, outside in the case of bad weather (rain).



ATTENTION: Keep out of reach of children packaging materials, they can be a source of danger to them. In particular, the Nylon film with "bubble barrier effect" could be used so as to cause suffocation.



WARNING: If the Pergola is to be mounted on a higher surface than the ground, it is necessary to define and supervise the area during the ascent to the awning, so that no one stands at any time under the suspended load. Securely fasten the packages of the awning in order to prevent it from falling.



IMPORTANT: unpack using scissors with rounded tips in order not to damage aluminium painting, do not use cutters. The packaging material should be disposed of or recycled in accordance with the regulations in force in the Country of destination of the product.

CHAPTER 6: SAFE INSTALLATION



IMPORTANT: The installation must be performed in full compliance with the installation instructions and safety rules in force in mobile sites. Be especially careful when working at height.

The installation isn't usually performed directly by staff from **Gibus S.p.A.** but by installers appointed by the authorized dealer, buyer or customer. The client is responsible under the law to entrust the installation to an expert staff, complying to the installation rules listed in this manual. In particular follow the "Instructions for proper installation" in Chapter 7. At the time of installation arrange all the tools mentioned on the first pages of the "Installation Instructions - VARIA line". If installers are more than one, it is necessary to appoint an operations co-ordinator.



WARNING: Before use, check that the staging, scaffoldings, ladders and all personal protective equipment, especially when working at height (harnesses, safety belts, etc..), comply with the requirements of the current law on safety and are all in good conditions.



Operators must act in accordance with the safety instructions received. Use suitable sling devices and provided PPE.

6.1

MECHANICAL STRUCTURE



WARNING: Improper installation can result in bodily injury. Read and carefully follow the installation instructions (provided with this manual) to properly secure the structure, so avoiding any risk of falls. At the time of installation arrange all the tools mentioned on the first pages of the "Installation Instructions - VARIA line".



WARNING: Check the status of the structure's housing and fixing site before installing and anchoring the structure to the floor and wall plates.



WARNING: If during installation any structural failures of the seat is noticed (the absence of the requirements for anchors fixing or other) the installers are required to provide evidence of this condition to the customer and notify the failure of the housing site in the section "Installation Notes" on paragraph 14 of this manual. If the minimum requirements are not satisfied, use other technical solutions, such as preparing a suitable foundation plinth for each floor plate or use internal counter-brackets or chemical expansion bolts until the wall is suitable for the installation.



WARNING: the choice of anchors depends on the type and condition of the housing site.

The instructions on the installation are described in annex "Installation Instructions".

6.2 ELECTRICAL CONNECTIONS

WARNING: all electrical connections must be made only by professionally qualified and trained staff, with the power supply cut off (disconnected) and in accordance with the regulations in force.



The product needs a 230V/50Hz power supply. The electrical insulation level of the power supply group of the Bioclimatic Pergola (blade movement, Led Spot and RYB leds, audio system) is Class II.

Tubular motors of side awnings instead have electrical insulation level of Class I. Other options and accessories have electrical insulation level of Class I: snowmelt system with heating blades, antifreeze system or heaters. **In this case (Class I) must be grounded the structure (Class I)** except in the case of a pergola without side awnings and without accessories.



WARNING: the pergola must be earthed.



WARNING: it is allowed not to ground the pergola only for module in standard configuration when there are no side awnings (blade movement and Spot White lights and RYB, audio system), since in this case the level of electrical insulation is Class II.

The final implementation of the electrical system must be strictly carried out by a qualified electrician. Also the technical choices carried out to implement the electrical connections fall within his competence. Below are the guidelines that should be carefully considered by the installer who will be charged with the costs of such operating decisions.

Instructions for qualified electrical installers:



IMPORTANT: The electrical system must be carried out according to UNI EN 60335-1 and 2 or subsequent, in force at the time of installation. The degree of protection of the electrical must be **at least IP55. Install an upstream electrical switch suitable to 230V/50Hz with magnetothermal and differential functions and the features indicated in the table in paragraph 3.2.**



WARNING: The switch shall have at least an **IP54** degree of protection if mounted outside the area accessible to third parties, the degree of protection can be **IP40** if the switch is mounted inside or in areas not accessible to third parties. The switch must be fixed in a place from where the awning is visible, out of dangerous areas (moving parts) and at a height from the ground that complies with the regulations in force.



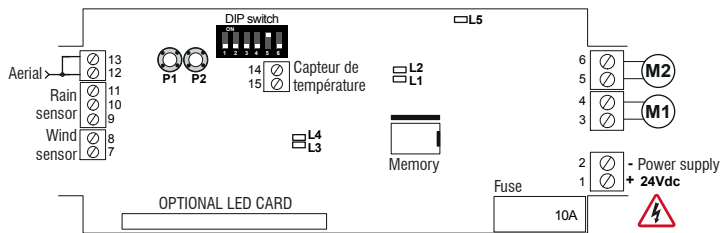
IMPORTANT! Check that the mains voltage is 230 V - 50 Hz. Standard equipment is meant to be connected to 230v/50Hz electrical mains; for the installation in countries with different features please specify the requirements when you place the order! **The electrical supply cable must be of double insulation type. Provide a cable with the features indicated in the table in paragraph 3.2.**



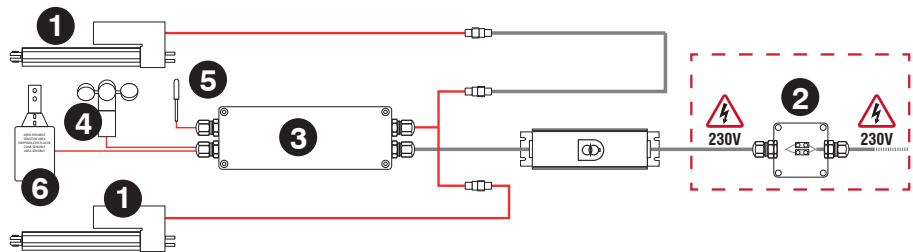
WARNING: if the Pergola is installed at a height from the walkable floor lowest than 2,30 m in its lowest travel point, **it is necessary to use the “man present” control.**

i **IMPORTANT!:** Never connect two or more engines to one single switch / inverter without using a control unit. Do not connect the two switches / inverters to a single engine. There is a risk of induced currents resulting in damage to the engines.

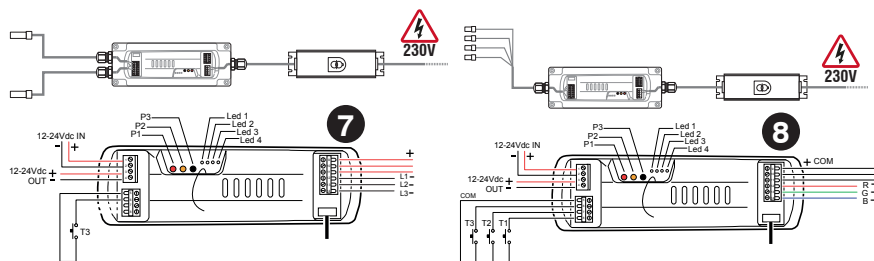
6.3 ELECTRICAL WIRING AND CONNECTIONS CONTROL UNIT VARIA



SIGNAL			
1	POWER SUPPLY (+24Vdc)	9	RAIN SENSOR (white, 12V)
2	POWER SUPPLY (GND)	10	RAIN SENSOR (blue, SIGNAL)
3	MOTOR (OPEN)	11	RAIN SENSOR (yellow, GND)
4	MOTOR (CLOSE)	12	RF AERIAL
5	MOTOR (OPEN)	13	GND AERIAL
6	MOTOR (CLOSE)	14	TEMPERATURE SENSOR (black)
7	WIND SENSOR (blue)	15	TEMPERATURE SENSOR (white)
8	WIND SENSOR (brown)		



DESCRIPTION OF MOTOR AND SENSOR WIRING COMPONENTS			
1	LINEAR ACTUATORS	4	WIND SENSOR
2	ELECTRIC BOX WITH EXTENSION	5	TEMPERATURE SENSOR
3	CONTROL UNIT WITH POWER PACK 6 RAIN SENSOR	6	RAIN SENSOR



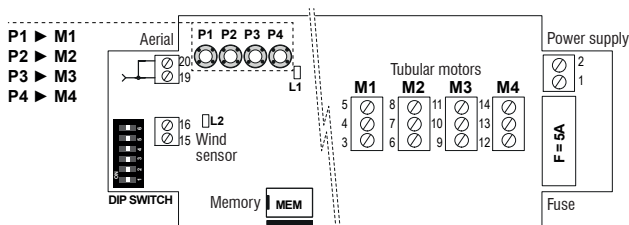
DESCRIPTION OF LIGHTING WIRING COMPONENTS

7	CONTROL UNIT WITH POWER PACK FOR PERIMETER LEDS	8	CONTROL UNIT WITH POWER PACK FOR BRISE SOLEIL BLADE LEDS
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For further information about the control unit for the motors, sensors, lighting control unit, see the specific instructions enclosed with the control unit.

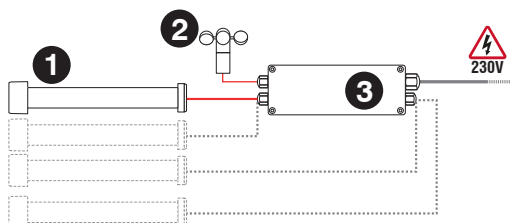
6.4 ELECTRICAL WIRING AND CONNECTIONS CONTROL UNIT OF SIDE DROP AWNINGS



SIGNAL

1	POWER SUPPLY 230 Vac (LIVE)	12	MOTOR 4 (CLOSE)
2	POWER SUPPLY 230 Vac (NEUTRAL)	13	MOTOR 4 COMMON
3	MOTOR 1 (CLOSE)	14	MOTOR 4 (OPEN)
4	MOTOR 1 COMMON	15	WIND SENSOR (blue)
5	MOTOR 1 (OPEN)	16	WIND SENSOR (brown)
6	MOTOR 2 (CLOSE)	19	RF AERIAL
7	MOTOR 2 COMMON	20	GND AERIAL
8	MOTOR 2 (OPEN)	L1	ON = POWER ON
9	MOTOR 3 (CLOSE)	L2	FLASHING = WIND ALARM
10	MOTOR 3 COMMON	P1-P4	PROGRAMMING BUTTONS
11	MOTOR 3 (OPEN)		

DESCRIPTION OF MOTOR AND SENSOR WIRING COMPONENTS	
1	TUBULAR MOTORS
2	WIND SENSOR
3	CONTROL UNIT OF SIDE DROP AWNINGS





Note: follow the electrical diagrams and the “Installation Instructions” which are kept in the awning accessory box.

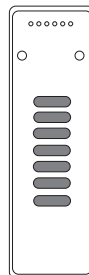
IO SOMFY ENGINES WITH REMOTE CONTROL		
WARNINGS	CABLES 230 VAC - 50 HZ	ELECTRICAL WIRING
	<p>N = Neutral L = Phase ⊕ (3) = Ground (Yellow/Green) 1 = Blue 2 = Brown</p>	
RTS SOMFY ENGINES WITH REMOTE CONTROL		
WARNINGS	CABLES 230 VAC - 50 HZ	ELECTRICAL WIRING
	<p>N = Neutral L = Phase ⊕ (3) = Ground (Yellow/Green) 1 = Blue 2 = Brown</p>	
RX CHERUBINI ENGINES WITH REMOTE CONTROL		
WARNINGS	CABLES 230 VAC - 50 HZ	ELECTRICAL WIRING
	<p>N = Neutral L = Phase ⊕ (4) = Ground (Yellow/Green) 1 = White 2 = Brown 3 = Blue</p>	
WT SOMFY ENGINES (WIRED)		
WARNINGS	CABLES 230 VAC - 50 HZ	ELECTRICAL WIRING
	<p>N = Neutral L = Phase ⊕ (4) = Ground (Yellow/Green) 1 = Blue 2 = Brown 3 = Black</p>	



IMPORTANT! The wiring diagrams and instructions for the use of engines and electronic control units are annexed to the control units themselves and should accompany this manual along with the Installation Instructions and carefully stored for subsequent consultations.

6.5 RADIO CONTROL

The radio control is a multi-channel UHF (Ultra high frequency) band transmitter for private use, automatic opening, ON/OFF control or light dimming, etc. The transmitted signal provides the rolling code to guarantee secrecy. Carrier wave frequency: 868.3 MHz. Operating temperature: -10° +55°. The 6 channel/42 position version is given as an example.



The transmitter is already matched to the motor control unit for the Bioclimatic Pergola. The motor control unit is stored in the transmitter channel/group 1.

CHAPTER 7: INSTRUCTIONS FOR PROPER INSTALLATION



WARNING: the operations for installation and start-up must be performed only by professionally qualified and trained staff, in accordance with the regulations in force.

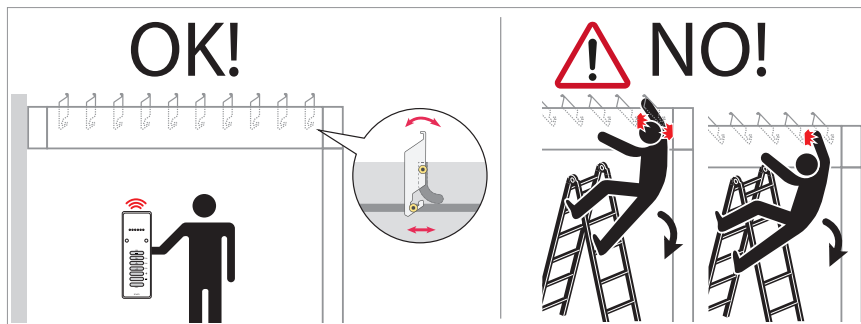


IMPORTANT: To properly set up the Pergola, follow the “Installation Instructions” attached to this manual and included in the accessory box or in another part of the package.



WARNING: the adjustment must be made under safe conditions. There is a residual risk of crushing/shearing and trapping your fingers, hands or head; therefore, position yourself outside of the dangerous area.

In particular, in order to avoid the risk of crushing/shearing injuries, do not put any part of the body between the adjustable blades or between the adjustable blades and parts of the fixed housing structure (guttering, etc.). This is extremely important when blades are moving.



CAUTION: The installation includes always several motors with remote control. Follow the “Installation Instructions” attached to this manual or enclosed in the accessory box or part of the packaging.



ATTENTION: if the installation of the side drop awnings needs more than one radio motor with an independent radio control without a power unit, it is advisable to power one motor at a time to avoid interference between them all. During programming then power the 1st motor and program its remote control, then disconnect the power supply to the 1st engine and power up the 2nd, repeat the programming and so on.



IMPORTANT: Before starting the limit switch adjustment, it is necessary to identify the type of engine installed on the awning.
Check the enabling of the thermal switch after about 4 minutes.



IMPORTANT: after installation the declaration for proper installation must be compiled by the installer (Sec. 14 par. 1).

CHAPTER 8: OPERATION AND USE OF THE PERGOLA



WARNING FOR THE USER: Pay attention to the signs placed in dangerous areas. Before operating the Pergola carefully read the Chap. 2 "SAFETY PRECAUTIONS" Use the Bioclimatic Pergola only as a protection against the sun, rain and for the purposes described in this manual (see chap. 2.1 "PURPOSE AND INTENDED USES OF THE PERGOLA").



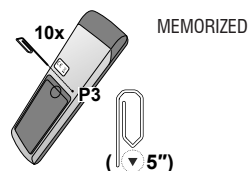
WARNING: Before operating the Bioclimatic pergola, check that there are no persons or objects that prevent the brise soleil blades from opening or closing (especially when snow is on the top of them).
Make sure there is nothing between the adjustable blades and the side gutters and blades. There could be a residual risk of crushing or trapping fingers (see the figure in Chapter 7).



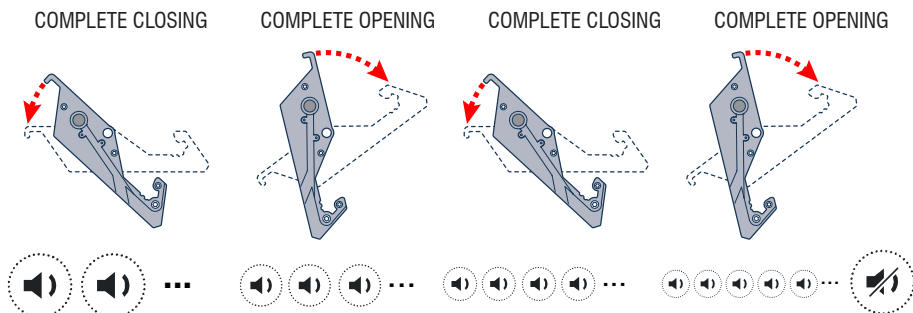
Follow the previous paragraph instructions of this manual and the attached Installation Instructions to commission the pergola.

The method to manage the motors and the transmitter (radio control) have been already set up at the factory. **After the electrical connection, match the limits from the transmitter without entering the control unit.**

To make self-learning of limit switches, position on the channel where the motors are stored (pressing the button over the transmitter already stored). Test the movement and the direction of the motors by pressing the buttons on under the transmitter. **Then keep pressed The P3 (posizioned behind the remote control) button pressed for 10".**



THE BLADES WILL MAKE THE FOLLOWING MOVEMENTS:



Wait for a few minutes and then the bioclimatic pergola is ready to be used.

i **IMPORTANT!:** the wind and rain sensors, if any, have already been set up at the factory. Position them properly and set the thresholds according to the instructions given in the sensor boxes. For the other sensors, follow the specific installation instructions.

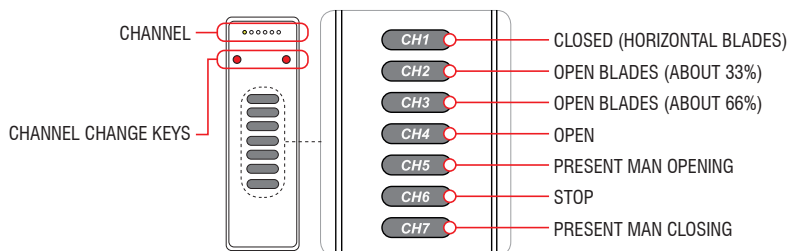
The bioclimatic pergola can be opened and closed using a portable or wall fixed remote control (see paragraph 6.5), the bioclimatic pergola must only be activated from a position that gives a full viewpoint of the blade movement.

If the bioclimatic Pergola is equipped with Screen control unit, the same remote control activates the brise soleil blades and the side drop awnings of VARIA. Differently the drop side awnings are opened or closed by the other remote control or switch installed close to the point where the maximum visibility is possible.

i **IMPORTANT!:** The characteristics and operation of the drive systems are described in the manuals herein attached, related to the engine, to the automatisms and commands required.

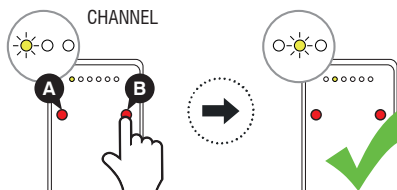
CHANNEL TRANSMITTER WITH PROGRAMMED CHANNEL FOR THE MOTOR

NOTE: The 6 channel/42 position version is given as an example

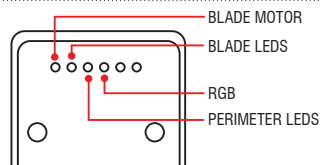




Press the keys to change channel "A" or "B" of the transmitter to switch from one channel to another.



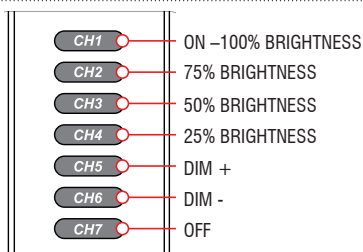
If there are other accessories that can be controlled by the same remote control such as led spots on the slats, perimeter led spots or a led strip rgb, **each one of them is already matched to a channel/group at the factory** (see the example):



Position on the various channels and test their functioning (the example gives the functions of the transmitter with the channel programmed for the blade spot led):



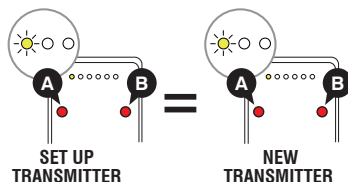
To switch on and off, and to operate the RGB lights, see the specific manual attached.



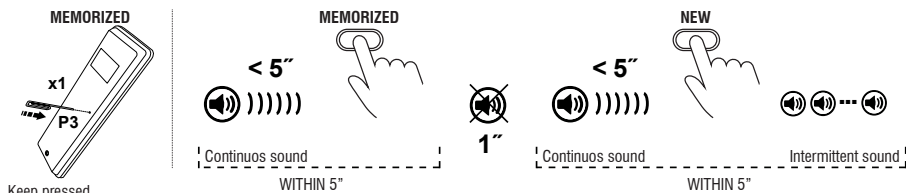
SET UP BY RADIO OF A NEW REMOTE CONTROL FROM AN ALREADY SET UP REMOTE CONTROL



ATTENTION: copy only one channel per time. Position on the channel to copy (using the keys "A" or "B") both on the set up transmitter and the new one:



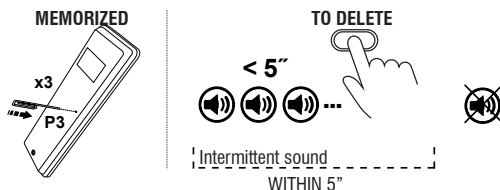
Press p3 of the transmitter already memorized and hold. The buzzer emits a continuous sound. Within 5", press a key of the **set up transmitter**. The buzzer stops for 1 second and emits the sound again. Within 5", press the button to memorize of the **new transmitter**. Once the memorization is successfully completed, the buzzer emits a fast intermittent sound.



Keep pressed

REMOTE DELETION OF A RADIO CODE

Press the button P3 of the memorized transmitter 3 times and hold. The buzzer emits a slow intermittent sound. Press a button relative to the code to be deleted within 5 seconds. Upon completion of deletion, the buzzer will stop.



For other functions and operations with the radio control, see the instructions attached and relevant to the specific transmitter and the control unit.

PROGRAMMING THE RADIO CONTROL OF SIDE DROP AWNINGS



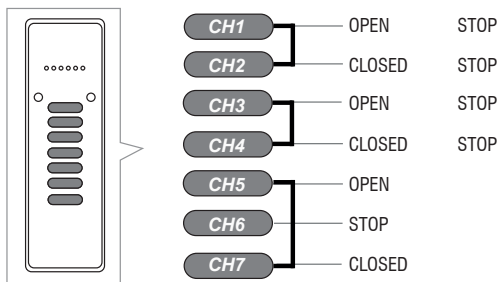
The motor control unit of the side drop awnings allows the following:

- to match a specific transmitter for side drop awnings;
- to match the transmitter that is used for the control of pergola and other accessories (blades, lighting, etc.).

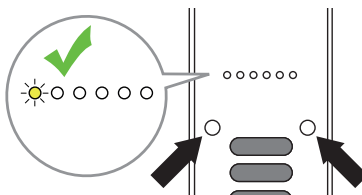
Programming the side drop awning with the control unit:

According to the number of the side drop awnings and the combinations you want to create:

The transmitter has 42 channels (6 groups of 7 channels)



Each motor must have its own GROUP/CHANNEL. Other motors can be inserted in the other GROUPS/CHANNELS to simultaneously manage all side drop awnings. To move one side drop awning, select the relevant channel:



Control UP, STOP, DOWN and use the CH5, CH6, CH7 buttons.

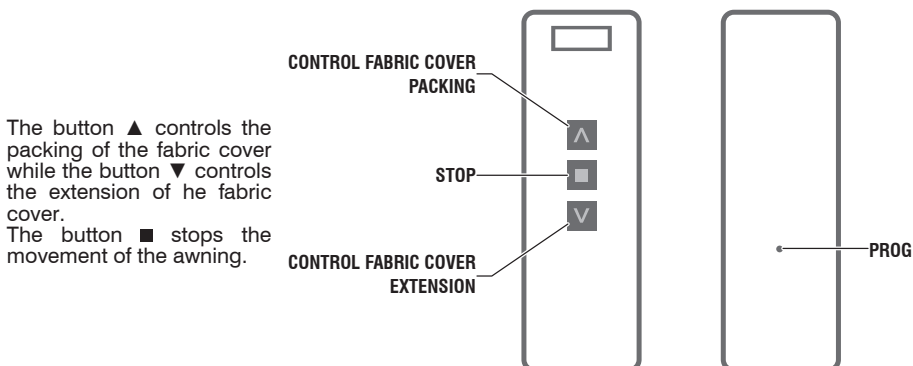
If more than one awning is associated to a GROUP/CHANNEL, they are simultaneously controlled with the same controls.

i See the Installation Instructions and the control unit manuals to memorize other radio codes and modify the limit switches.
IMPORTANT: Keep the Installation Instructions and the specific manuals of the control units.

Programming the side drop awnings without the control unit:

The side drop awnings are controlled by the Somfy or Cherubini remote control:

The motorized running of the awning with radio motors involves the use of a radio control which allows to control the movements of the fabric cover in a simple and intuitive way:



i The radio control is already programmed/matched during the production / installation of the awning. For more information on the procedure for programming and adjusting the endstops, refer to the attached "Installation Instructions" and the Instructions that are attached to the specific device.



CAUTION: Direct the blades partially opened in the case of very strong rain, hail, strong wind, snow and ice; it is dangerous to leave the blades closed in these cases, it can cause injury to persons and damage to property. Please roll up the side drop awnings Screen VARIA.



IMPORTANT! If something has blocked the opening or closing of the blades, continue the opening or closing with the "man present" command.

The Bioclimatic Pergola is recommended to be exposed to a maximum wind load equal to 100 Newton/m² corresponding to a continuous wind at a maximum speed of 49 Km/h according to the Beaufort scale. For safety reasons, it is advisable to partially open the blades and roll up the side drop awnings before this limit is reached. If no sensor is installed, manually adjust the blades and roll up the side fabrics if there is a strong wind.



ATTENTION: never perform repeated opening and closing operations with the engine, this could cause the motor to overheat, which could block it, and make it impossible to perform the necessary movements (in the case of strong wind or snow).



The motors of side drop awnings are equipped with an electromagnetic brake and thermal protection. For its technical characteristics, the motor provides a maximum time of continuous operation for about 4-5 minutes, after which the thermal protection device is activated for cooling. The standard use of the awning provides an opening and closing manoeuvre. It is required, if the thermal switch is triggered, to let the engine cool before performing new actions.

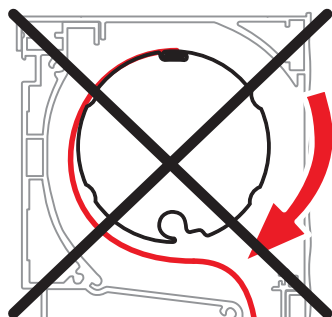
If the bioclimatic pergola's blades were closed or with extended side fabrics, and if ice or snow has deposited on it, do not move the blades or roll up the side fabrics until all the snow has been removed or the ice has melted. Otherwise, the movements could be blocked and the fabric or other components might be damaged.



IMPORTANT! The operation with ice may damage the Bioclimatic Pergola!
Do not operate the Bioclimatic Pergola before having first removed the snow and the ice formed.



IMPORTANT! When the awning is opened, it must be folded by following the correct folding directions of the winding roller. Failure to follow this recommendation can damage the canvas and other components.



WRONG folding direction



KORREKTES Aufwickeln vom tuch



IMPORTANT!: in the case of failures, turn to you dealer and if required only ask for Gibus original spare parts.



ATTENTION!: In the case of fault or when searching for faults, respect the safety measures. In particular when searching for or repairing any faults to the electric components, there is the risk of fatal electric shock. Only qualified electricians must carry out the maintenance to the electrical parts.

8.1 IMPORTANT INFORMATION ON USE

Regardless of the high standards of weaving, treatment of tissues and packaging techniques, the fabric covers may be subject to the following problems:

- **MOULD:** The high concentration of harmful pollutants in the atmosphere resulting in acid rain, the installation of the awning in the vicinity of roads, air conveyors, of tall trees, with the consequent fall of resins and vegetable material, may cause the fabric covers, despite being treated with anti-mould products and **if constant maintenance cleaning is not carried out**, be attacked by micro-organisms, in such magnitude as to make it impossible the subsequent cleaning.



IMPORTANT: water resistance on fabrics, Printed and Waterproof, is guaranteed only on fabric not affected by mould.

BIOCIDES - Some fabrics are subjected to treatment that makes them hostile to the formation of mould and mildew. Such treatments can contain biocidal products (agents intended to destroy, intimidate or make harmless, in a biological or chemical way, harmful organisms). See section 3.6.

- **FOLDS** - Spider Web Effect: May be formed in the packaging of the fabric cover; especially in light colours these folds become darker marks on the fabric. In any case there is no degradation of the quality of the awning.
- **WAVES:** May be formed next to the seams and to the side edges because of the double thickness of fabric which, packed around the roller, creates different tensioning.
- **FRAYING AND ABRASION:** The fabric, if exposed to strong wind and constant stress, may show signs of wear, fraying and abrasions.



N.B.: There could be folds on Cristal, especially in the central band of the fabric. These folds are unevitable and are not a defect.



IMPORTANT!: As highlighted in the preceding paragraphs does not constitute product defect and therefore is not covered by warranty.



IMPORTANT!: The fabric cover should always be packed when perfectly dry; if packed when wet it is more easily attacked by moulds and can cause the phenomenon of waves close to the seams.



IMPORTANT!: The extended fabric cover should always be tensioned, so you will prevent the fabric from “banging” at every breath of wind.

IMPORTANT!: Failure to follow the conditions for proper use, automatically voids any warranty given by the manufacturer.

CHAPTER 9: MAINTENANCE

Operations of **installation and initial start-up, adjustment and obligatory maintenance** should be performed only by qualified technical personnel and specialized for such tasks. **Contact the Technical Service Department of your Gibus dealer.**



IMPORTANT: it is compulsory to ask a Gibus technician for an extraordinary maintenance operation within the 2nd year from the installation of the pergola so that the warranty will also cover the 3rd year. A compulsory maintenance operation within the end of the 3rd year will extend the warranty to the 4th year and a compulsory maintenance in the 4th year will extend the warranty to the 5th year. If the maintenance operations are not carried out, the Gibus warranty will no longer be valid. Use original Gibus spare parts; otherwise, the warranty will be voided.

Compulsory maintenance required by the end of the 2nd year and the following maintenance operations for extending the warranty year after year must be carried out by a Gibus technician and must minimally include an **inspection of the correct blade movement, positioning of the endstops in opening and closing, making sure that the wind sensor is working if it is present and the conditions of the seals.**

Also check the recommendations in paragraph 9.2 titled "MAINTENANCE OF THE PERGOLA", and those in the "Product Maintenance Technical Sheet" available in the reserved area of the www.gibus.it site. Also, the operations reported in the following paragraphs must be carried out by the owner or by a specialist **paying attention to the following warnings:**



ATTENTION: The operations of routine or unscheduled maintenance must be carried out safely, after cutting the power supply off. Before resume operating the Pergola carefully read the chap. 2 "SAFETY PRECAUTIONS".



ATTENTION: pay attention to the safety directions given in Chapter 7 to avoid squeezing/cutting.



CAUTION: Cleaning with ladders, scaffolding or other is reserved for specialized personnel who must carry out the operations in accordance with current directives on safety and must use personal protective equipment such as safety harness with sling.

9.1 CLEANING THE BRISE SOLEIL BLADES AND THE SIDE FABRICS

The brise soleil blades have to be opened to guarantee it works correctly and to maintain their attractive appearance by eliminating any dust or other materials that have deposited on them, thus delaying as much as possible the formation of permanent dirt. It is therefore advisable:

- **at least twice a year** (in spring before use during the summer season and in autumn before winter closure). Check the state of the blades, the guide grooves of the drive bar, the blade gutters and perimeter gutters. Remove any leaves, twigs, pines or anything else that may have deposited on them.
- **if necessary** clean the blades and the fabric by vacuuming the dust and using a damp sponge or cloth with lukewarm water and non-aggressive products.



- **non utilizzare solventi – ammoniac – idrocarburi;**
 - **fare asciugare with the blades placed vertically dopo la pulizia.**
- In caso di dubbio rivolgersi al rivenditore.**



Cleaning the fabric cover (if present):

- do not use solvents – ammonia – hydrocarbons;
 - follow the instructions shown on the label of the fabric cover; do not dry wash; do not wash in the washing machine (for washing of the Cristal, the use either of very alkaline detergents or any kind of substance or abrasive equipment are not recommended, which tend to dull and create micro-fractures, decreasing the transparency);
 - leave the fabric open to dry after cleaning. Don't roll up the wet fabric.
- For more information consult the information sheet of the fabric used in the current sample and when in doubt consult your dealer.

Follow the following procedure to safely clean the fabric:

- Extend the awning.
- Release the tension in the awning.
- Clean the exposed fabric (follow the instructions) using the appropriate method, with a vacuum or other device.

9.2 MAINTENANCE OF THE PERGOLA



IMPORTANT: please open and close the awning periodically and check periodically the correct operation of the parts. Do not leave the product unused for long periods.

In order to keep the product in perfect operating conditions and safe proceed as follows:

- **Yearly** (or after any extreme weather events):
 - visually inspect the bearing structure;
 - inspection of the tightening and the integrity of bolts and nuts, as well as screws. Make sure that the ground and the wall fixing devices are in perfect condition. Check the condition of the floor around the fixing devices (in particular, make sure that there are no cracks and that the screws are properly tightened);
 - make sure that the gutters along the perimeter and the gutters of the brise soleil blades are clear of leaves or other debris. Remove the elements that prevent water from flowing out and lubricate the moving parts with a drop of Teflon spray, if necessary.
 - check the operation of the remote controls, the sensors and the lighting installation. Check the efficiency of the grounding.
 - clean the surface, if it is necessary, to remove dirt and dust. Clean the surface with a paper rag and a wet sponge as explained in the previous paragraph.
- **Yearly**, check the side drop awning, both the conditions of the zips and the sliding of the front section along the guide. Check the fabric conditions as well.

9.3 EXTRAORDINARY MAINTENANCE

For extraordinary Maintenance within the 2nd year from installation and in subsequent years (mandatory for extending the warranty) follow the other regulations found in the “Product Maintenance Check List”.



ATTENTION!: The maintenance work is to be carried out by qualified and trained personnel. Call for a Gibus specialised technician.

Gibus

CHECK LIST MANUTENZIONE PRODOTTO

VARIA

DATA	OPERAZIONE	STATO
	1. Verifica dell'installazione e della manutenzione ordinaria	
	2. Verifica dell'installazione e della manutenzione straordinaria	
	3. Verifica dell'installazione e della manutenzione straordinaria	
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	80. Verifica dell'installazione e della manutenzione straordinaria	
	81. Verifica dell'installazione e della manutenzione straordinaria	
	82. Verifica dell'installazione e della manutenzione straordinaria	
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	97. Verifica dell'installazione e della manutenzione straordinaria	
	98. Verifica dell'installazione e della manutenzione straordinaria	
	99. Verifica dell'installazione e della manutenzione straordinaria	
	100. Verifica dell'installazione e della manutenzione straordinaria	

CHAPTER 10: DISMANTLING AND DISPOSAL



CAUTION: dismantling of the Pergola must be carried out by qualified and trained staff. Ask for a specialized Gibus technician at the Service Department.



CAUTION: dismantling of the Pergola must be carried out applying all the safety provisions as per installation: see chapter "SAFE INSTALLATION" and chapter "INSTRUCTIONS FOR PROPER INSTALLATION" with the help of the installation instructions.

RECOMENDATIONS FOR THE OPERATOR IN CHARGE OF DISMANTLING:

- the operations must be carried out with the brise soleil blades placed vertically;
- roll up the side drop awnings;
- disconnect the power supply to the system;
- disconnect the system downstream the cut-off switch;
- disconnect the engine;
- disconnect the control units;
- remove the blades, then remove the boxes, remove the fabric rollers and finally dismount the structure.

10.1 DISPOSAL OF THE PERGOLA

The Pergola is not built with materials considered hazardous. There are no special instructions for destruction or disposal. The components making up the Pergola are given in Chapter 3. Pay close attention to management of Waste Electrical and Electronic Equipment (WEEE directive).



IMPORTANT!: Follow the regulations in place at the time of disposal of the Pergola to dispose of the materials constituting it.



ATTENTION: please note that for any detail of the Pergola to be separately disposed of, always refer to the current standards on the matter.

To dismantle the Pergola follow the regulations imposed by the laws in force in the country of use. Disconnect the Pergola from the power supply. Disassembly the individual components of the Pergola grouping them according to their composition. Then scrap in accordance with the laws in force in the country of use.

Most significant materials making up the bioclimatic pergola awning:



Aluminum
Steel
Plastic



Electrical and electronic equipment and EEE equipment.

Under art. 14 of the 2012/19/EU DIRECTIVE OF THE EUROPEAN PARLIAMENT AND COUNCIL of 4 July 2012 on waste electrical and electronic equipment (WEEE), the crossed bin symbol **(on some of the parts and components of the product)** indicates that these parts and components are electrical or electronic products and must be collected separately from other waste at the end of their useful life and not with mixed urban waste. This is to encourage correct recycling/disposal. Appropriate waste sorting for the subsequent recycling, treatment and environmentally compatible disposal of the disused electric and electronic equipment avoids negative effects on the environment or human health and favours the re-use or recycling of the electric and electronic equipment's materials. The same symbol indicates electrical or electronic products for the "Waste Electrical and Electronic Equipment Regulations 2013".

CHAPTER 11: TROUBLESHOOTING



WARNING: in case of troubleshooting you must comply with the relevant safety requirements; in particular while searching for any faults or repairs of the power supply system, there is a risk of fatal electric shock. maintenance on electrical parts must be carried out by qualified personnel only.



WARNING: risk of crushing.
in particular, in order to avoid the risk of crushing/shearing injuries, do not put any part of the body between the adjustable blades or between the adjustable blades and parts of the fixed housing structure (guttering, etc.). This is extremely important when blades are moving.

The following table shows the solution to more common problems. In the presence of problems other than those listed contact the Service Department.

11.1 TABLE OF FAULTS AND DEFECTS

PROBLEMS	CAUSES	REMEDIES
The remote control does not respond to the controls.	The remote control isn't working.	Unlock it by pressing one of the top two small buttons (the buttons that are used for the selection of the group or the channel) for 10 seconds until the LEDs flash.
The motors are noisy.	Faulty motor.	Request technical assistance.
The motors do not move.	Incorrect wiring.	Check the electric circuit against the attached wiring diagrams.
	Faulty motor.	Check the motor and replace it if necessary.
	Remote batteries flat or faulty.	Change the batteries or the remote control.
The blades do not open perfectly horizontally or they do not complete the run (0°-135°).	Incorrectly regulated endstops.	Repeat the learning procedure and regulate the endstops.
	Something has fallen into the movement area and blocks the movement: side tracks, perimeter gutters, etc.	Check there are no pinecones, twigs, nests, pine needles or anything else and remove them.
The blades do not open from the closed position.	The resin has deposited on the perimeter seals or between the blades.	Clean and lubricate the seals.
	There is some ice between the blades.	Wait for the temperature is raise.
	The rain alarm is raised and it is raining.	Wait for the rain to stop and disactivate the rain sensor (procedure in chapter 2).
	The pergola is not power supplied.	Power supply the pergola.
	The remote control is not matched or the batteries are drained or it is broken.	Match the remote control or replace the batteries.
The blades are blocked in a different position from the required one.	Something has fallen into the movement area and blocks the movement: side tracks, perimeter gutters, etc.	Move the blades with the "man present" command and/or remove the foreign body that is blocking them.
After the opening control, the blades are in a partially opened position at about 33%.	Less than 6 hours have passed since the rain has stopped and the rain alarm is active.	Control the opening with the operator present or disable the rain sensor (chapter 2).
The blades are blocked in a partially opened position of about 33%, and don't move.	At least 60 seconds have passed from the detection of wind beyond the set threshold; the wind alarm is enabled.	Wait for the breeze decreases.
The blades are blocked in a partially blocked position of about 66%, and don't move.	The temperature is lower than 2°C and the alarm is enabled; if it is also raining and the snow sensor is enabled.	Control the displacement with the operator present.
The blades do not open when there is a strong wind.	Wind sensor sensitivity programmed for a too high limit.	Reprogram the anemometer limits.
	Anemometer incorrectly wired to the control unit.	Check the connections to the terminals.
	Faulty anemometer.	Replace the anemometer.
Malfunction not included among the above.		Check the specific instruction manuals for the control units attached to this manual, or contact the technical service centre.

SIDE DROP AWNINGS		
PROBLEMS	CAUSES	REMEDIES
The fabric retracts unevenly.	Uneven thickness of the fabric.	Apply a suitable thickness of the fabric or something else on the idle loop of the fabric in the side of the cone.
The awning does not completely pack. The awning does not completely extend.	Incorrect adjustment of limit switches.	Repeat the adjustment of limit switches as per installation instructions.
The engine is very noisy.	Faulty engine.	Request for technical servicing.
The engine does not start up.	Faulty wiring.	Check the electrical circuit with the diagrams annexed.
	Faulty engine.	Check the operation of the engine and replace if necessary
The motor stops after 4-5 minutes after continuous running	Thermal protection of the motor triggers.	Allow the engine to cool down.

WITH RTS, RX OR IO ENGINES AND BUILT-IN RADIO CONTROL		
PROBLEMS	CAUSES	REMEDIES
The engine does not start up.	Programming error or unplanned.	Repeat the programming.
	Remote control with low battery.	Replace the remote control battery.
	Faulty engine.	Replace the engine
The motor moves only by holding down the button on the remote control.	Incomplete programming.	Complete the programming.

WITH ELECTRONIC UNITS		
PROBLEMS	CAUSES	REMEDIES
The awning does not pack in case of strong wind.	Faulty control unit or wind sensor.	Replace the Control Unit and/or the wind sensor.
	Anemometer set to detect very high winds.	Adjust sensitivity.
The awning closes and opens frequently.	Calibration of too sensitive values. Trimmer adjusted in DEMO mode.	Adjust the calibration and sensitivity values.
Faulty remote control.	Low battery.	Replace the battery.
	Faulty remote control.	Replace the remote control.

CHAPTER 12: CONVENTIONAL WARRANTY UP TO THE FIFTH YEAR

For EU countries + Switzerland and the UK, Gibus S.p.a. offers the conventional guarantee pursuant to art. 135 - quinquies Legislative Decree 206/2005 - Consumer Code - and better explained in the following Articles. Gibus' conventional guarantee does not, in any way, prejudice the rights and remedies expressly provided for by the law in favor of the consumer exclusively towards the seller (see the following articles 2 and 3) ("Legal Guarantee" articles 128 et seq. of Legislative Decree No. 206/2005) for lack of conformity of the product.

Art.1 GIBUS PRODUCTS

Each GIBUS product has the characteristics described in the price list/sales catalog that is in force at the moment the order is received by Gibus S.p.A. The characteristics of the fabrics are described in the respective GIBUS samples.

Art.2 LEGAL GUARANTEE OF THE SELLER

The goods are guaranteed for a period of two years from the date of delivery for any lack of conformity existing at that time. The two-year legal guarantee can be enforced by the consumer exclusively against the seller pursuant to art. 133 Legislative Decree No. 206/2005.

Art.3 REMEDIES PROVIDED FOR BY THE LEGAL GUARANTEE (ART. 135-BIS OF LEGISLATIVE DECREE 206/2005)

In the event of a lack of conformity of the product sold, the consumer may request the seller either repair or replace the goods, provided that the chosen remedy is not impossible or, compared to the alternative remedy, does not impose disproportionate costs on the seller. Should the requested remedy be, pursuant to Article 135-bis of Legislative Decree no. 206/2005, impossible or excessively burdensome and entailing disproportionate costs for the seller, the consumer may request that the seller reduce the price or terminate the contract. The latter remedies may be also requested by the consumer from the seller in other cases specifically ruled by art. 135-bis of Legislative Decree 206/2005 to which reference is made. In any case, it is specified that, pursuant to art. 135-bis, paragraph 5, Legislative Decree 206/2005, a minor lack of conformity will not give the consumer the right to terminate the sales contract.

Art.4 CONVENTIONAL GUARANTEE

GIBUS S.p.A., with registered office in 35030 Saccolongo (PD) via Einaudi 35, offers the "consumer" as defined by art. 3, paragraph 1, letter a) of Legislative Decree 206/2005, the conventional product warranty starting from the 3rd year and up to and including the 5th year, starting from the date of purchase of the goods under the conditions specified below.

Art.5 OBJECT OF THE CONVENTIONAL GUARANTEE: EXTENSION OF THE DURATION

The Gibus conventional warranty covers the spare parts of the product on the condition that the mandatory maintenance is carried out by an authorized Gibus Dealer, with costs entirely borne by the consumer, of the Bioclimatic Pergolas, 90° Pergolas, Bioclimatic Pergolas with retractable roof (according to the instructions given in the "Use and Maintenance Manual" attached to the product), to be carried out by the end of the 2nd year from the date of installation and every year up to the 5th year. The warranty for the 3rd, 4th and 5th year consists only in the replacement of components recognized as defective by GIBUS S.p.A. and does not cover the costs of labor, travel, disassembly/assembly and transport that will be borne by the customer. The costs deriving from the right to call of the authorized Gibus Dealer will also be borne by the customer.

Art.6 LIMITS OF THE CONVENTIONAL GUARANTEE

The Gibus conventional guarantee covers the cost of spare parts in the following percentages:

- In the 3rd year, the Guarantee covers 60% of the value of the spare part determined by the price shown by Gibus on the sales invoice to the dealer or, if not specifically stated therein, by the price charged for the spare part at the time of sale to the dealer;
 - In the 4th year, the Guarantee covers 50% of the value of the spare part determined by the price shown by Gibus on the sales invoice to the dealer, or, if not specifically stated therein, by the price charged for the spare part at the time of sale to the dealer;
 - In the 5th year, the Guarantee covers 35% of the value of the spare part determined by the price shown by Gibus on the sales invoice to the dealer or, if not specifically stated therein, by the price charged for the spare part at the time of sale to the dealer;
- The Cristal and the LEDs, if present, are excluded from the conventional guarantee.

Art.7 WITHOUT EXPENSES

The legal guarantee offered by the seller and the conventional guarantee by Gibus belong to the Customer free of charge. It is the customer's responsibility to prove that the guarantee is still valid by means of the delivery document issued by the seller or other similar document (i.e. receipt, cash receipt or similar) which shows the name of the seller and the date on which the delivery of the goods took place, as well as the evidence of the execution of the obligatory maintenance (i.e. receipt, cash receipt or similar which must be equal to a reasonable fee compared to the maintenance service) in the event the Customer has the "Conventional Guarantee".

Art.8 TERRITORIAL EXTENSION

The legal guarantee referred to in Legislative Decree 206/2005 is valid for Italy. In the EU countries, the legislation envisaged for each country applies to the legal guarantee for the sale of consumer goods. In any case, in EU countries, the seller must grant the consumer a minimum two-year guarantee. The GIBUS conventional guarantee in the terms specified in this agreement is valid in Italy, in EU countries, in Switzerland and in the UK. For extra EU countries, the legal and conventional guarantees are not effective.

Art.9 FURTHER CONDITIONS FOR THE VALIDITY OF THE CONVENTIONAL GUARANTEE

In order for the Gibus conventional guarantee to be considered valid and effective pursuant to this document, in addition to the above, all the following additional conditions must be met:

- A. the permitted use and purposes of the product shall comply with the instructions given in the "Use and maintenance manual";
- B. the rules of use and periodic maintenance shall comply with the instructions given in the "Use and maintenance manual";
- C. the annual compulsory maintenance shall be carried out and proved up to the 5th year;
- D. the installation and mandatory annual maintenance shall be carried out exclusively by an authorized GIBUS dealer; both installation and maintenance operations will be valid only if recorded in the "Use and Maintenance manual" and in the "Product Maintenance Check List";
- E. the electrical and electronic parts (motor – automatic devices - switches) concerning the product shall be supplied by GIBUS; if electrical and electronic parts are not supplied by GIBUS or are tampered with, the guarantee will not be effective.

Each Gibus Product is unique, uniquely recognizable and traceable, thanks to a 3D Gibus-branded hologram that includes a unique alphanumeric serial number. The Gibus conventional guarantee will be recognized only if there is the Gibus hologram and "serial number" and after Gibus has checked for the compliance with the requirements and conditions set out in this chapter and in the "Use and maintenance manual" of the product.

Art.10 EXCLUSIONS

In addition to the other cases mentioned above, the conventional guarantee is not effective if the product is used for purposes other than those for which it is designed or in ways prohibited by the instructions given in the "Use and Maintenance Manual", which is attached to the product and delivered by the authorized seller; the conventional guarantee is also excluded if the product is used in any commercial, entrepreneurial or professional businesses, unless it is agreed upon differently.

Furthermore, the following is not covered by the conventional guarantee: non-conformities and/or defects due to negligence or carelessness in use (such as failure to comply with the instructions for the correct operation of the product), improper installation, installation or maintenance carried out by personnel who are not employed by an authorized Gibus Dealer or by personnel who are not expressly proven to be addressed by the authorized Dealer, as well as transport damage, or damage due to products or spare parts or components that are not recognized as defective by GIBUS S.p.A.

The conventional guarantee is not effective even in cases of improper use of the product if strong wind occurs beyond the limits indicated by the manufacturer, as well as heavy rain, hail, snow, ice and/or other atmospheric events, even combined, in the event of failure of the wall where the Pergola is fixed, and finally, in case of tampering with the product and use of non-original GIBUS spare parts and components.

The Conventional guarantee is not effective in the following cases:

- modification of any parts of the product during the installation or after the installation without the written authorization of GIBUS.
- installation of parts or components (including motors and automatic devices) not supplied by Gibus or not authorized in writing by Gibus.
- installation on the pergolas of side closures or windows or accessories made by other manufacturers, not present in the catalog and for which there is no written authorization from GIBUS S.p.A.
- installation on the pergolas of other pieces or components or side closures not authorized in writing by Gibus which, in Gibus's unquestionable judgment, may compromise the functioning and stability of the structure itself, its safety, its resistance to wind and atmospheric agents in general as well as the duration of the product.

For other specific exclusions from the guarantee, refer to the various chapters of the "Use and Maintenance Manual" attached to the product.

Art.11 RESPONSIBILITY OF THE MANUFACTURER

Gibus declines all responsibility for any damage that, directly or indirectly, could result to persons, property of the end user or third parties, as well as pets as a result of failure to comply with all the above requirements or those listed in the specific "Use and Maintenance Manual" and concerning, in particular, the warnings regarding the installation, use and maintenance of the product and in all other cases in which the aforementioned conventional guarantee is not effective.

Art.12 FINAL REMARKS

The conventional guarantee is issued by GIBUS S.p.A. as also indicated in the "Use and Maintenance Manual" attached to each product that the authorized Gibus dealer shall handle to the customer and that the customer must demand.

This warranty is issued by:

Gibus S.p.A.

via Einaudi 35 35030

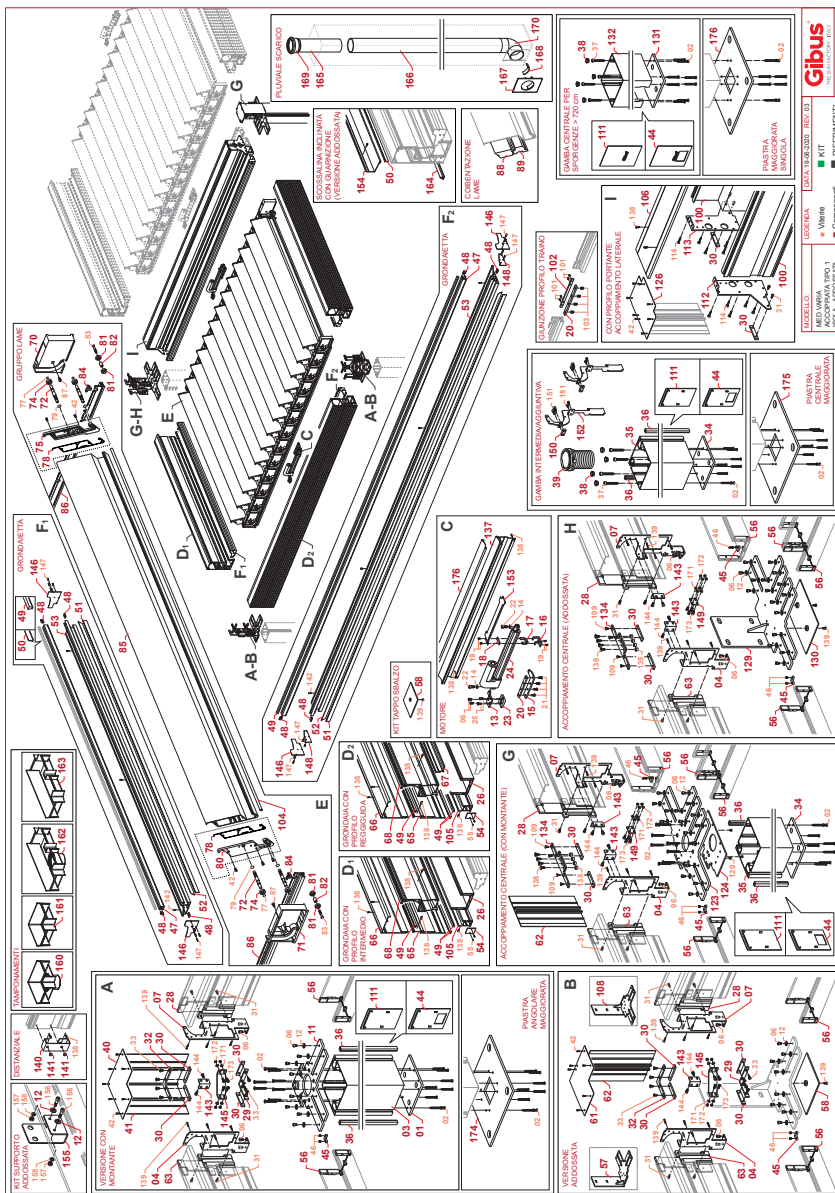
Saccolongo (PD) - ITALY

For any dispute, is elected as the only jurisdiction that of Padua Italy.

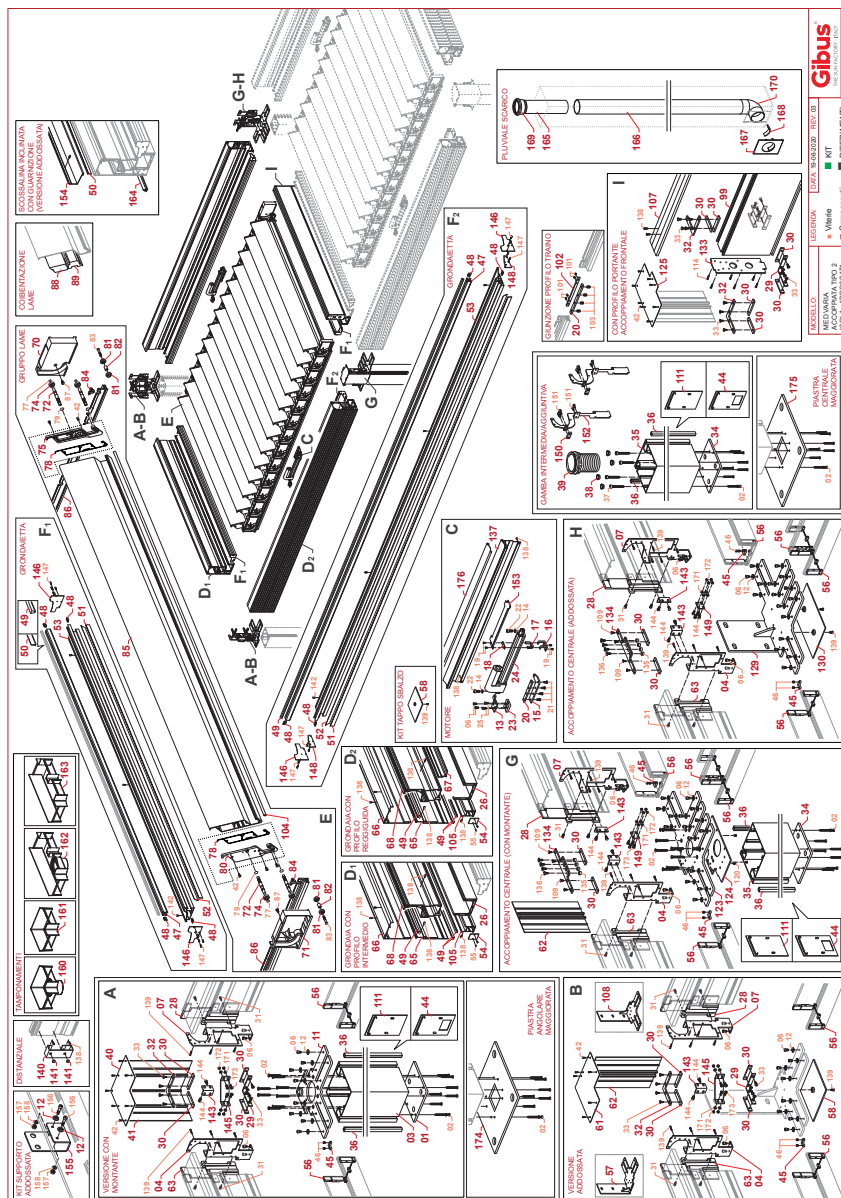
13.1 1 MODULE



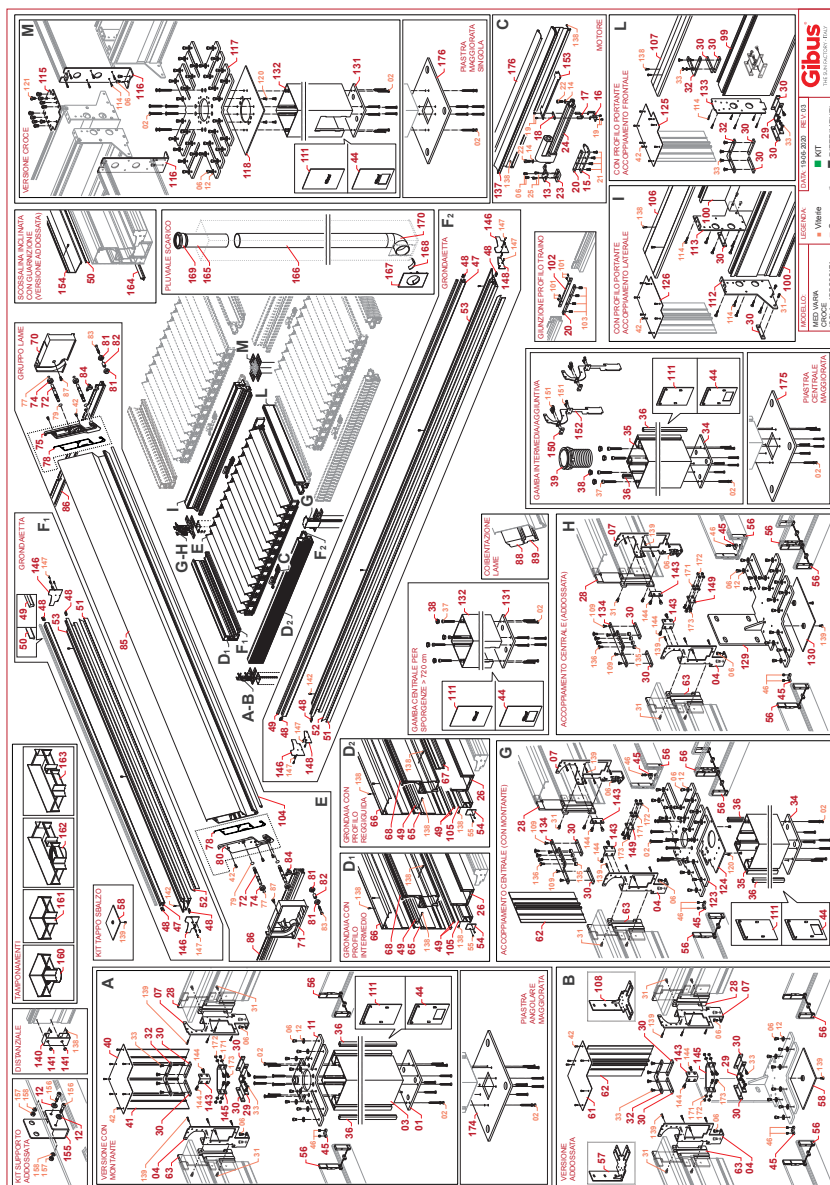
13.2 COUPLING MODULE TYPE 1



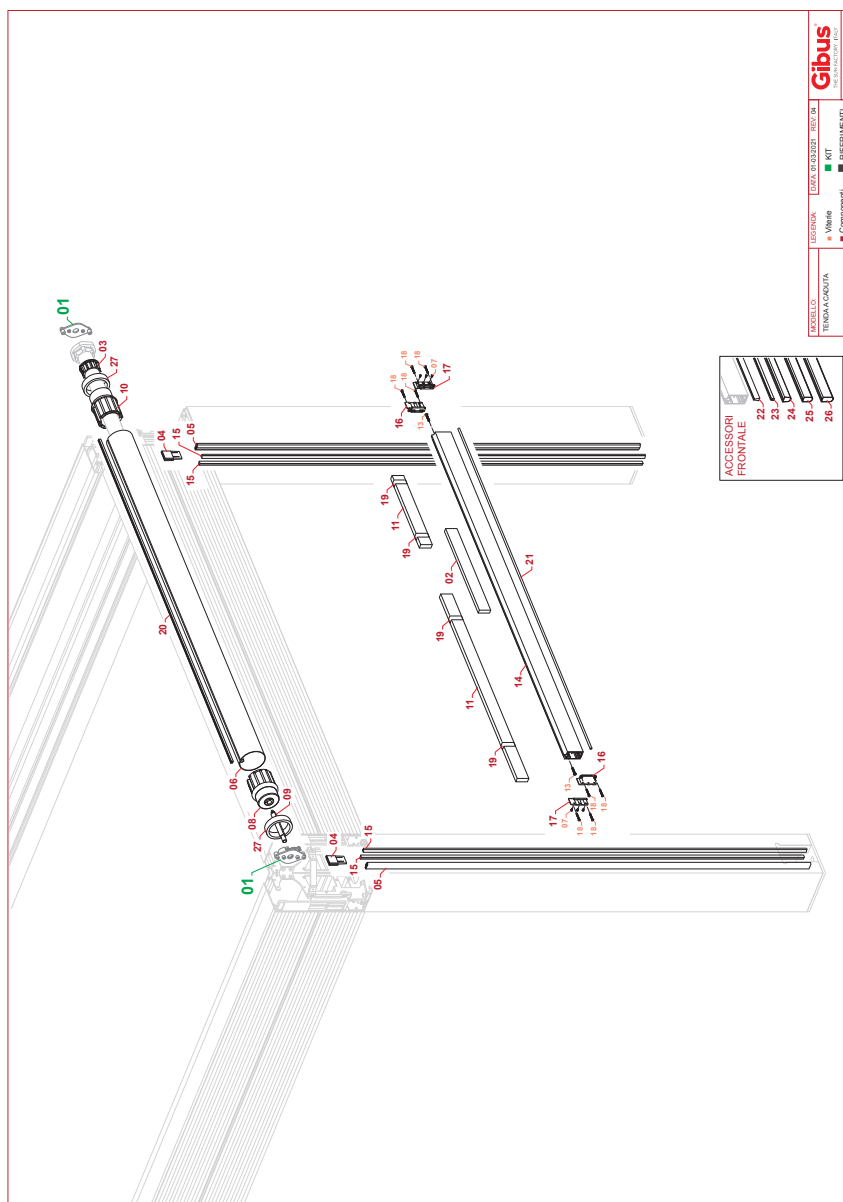
13.3 COUPLING MODULE TYPE 2



13.4 CROSS-SHAPED COUPLING



13.5 VARIA DROP AWNING



CHAPTER 14: TECHNICAL NOTES

14.1 DECLARATION OF INSTALLATION

DECLARATION OF INSTALLATION (to be filled by the installer)			
VARIA			
<input type="checkbox"/> ISLAND <input type="checkbox"/> FRONT LEANING <input type="checkbox"/> SIDE LEANING		<input type="checkbox"/> 1 MODULE <input type="checkbox"/> COUPLED	
		<input type="checkbox"/> WITHOUT SIDE DROP AWNINGS <input type="checkbox"/> WITH SIDE DROP AWNINGS	
Size L: S:	Fabric Type: Colour:	Motor Type:	Automations Type:
The undersigned:		of the Company:	Reference:
as:		Address:	
Declares under his sole responsibility <ul style="list-style-type: none"> • of having used the components contained in the packaging of the products by Gibus and additional products provided for by the Installation Instructions; • of having checked the technical compliance of the housing site; • of having carried out the installation through the instructions provided by the manufacturer in the Use and Maintenance Manual and in the Installation Instructions delivered with the packaged product; • of having delivered to the customer these Use and Maintenance Manual with the Declaration of Performance DoP relevant to the regulations and European reference standards. 			
Installation:		Date:	Stamp and signature Gibus technician:
Installation Notes:			
Mandatory maintenance within the end of the 2nd year		Date:	Stamp and signature Gibus technician:
Mandatory maintenance within the end of the 3rd year		Date:	Stamp and signature Gibus technician:
Mandatory maintenance within the end of the 4th year		Date:	Stamp and signature Gibus technician:
Mandatory maintenance within the end of the 5th year		Date:	Stamp and signature Gibus technician:
IMPORTANT!: Extraordinary maintenance is compulsory and should be carried out by a Gibus specialized technician by the end of the second year from the awning's installation; this will extend the warranty up to the 3rd year from the installation date. Use Gibus original spare parts to keep the warranty valid. Accordingly, a compulsory maintenance operation within the end of the 3rd year from the installation date is to be required to the Gibus specialized technician and that will extend the warranty to the 4th year; a compulsory maintenance in the 4th year from the installation date will extend the warranty to the 5th year.			
Mandatory Maintenance Notes:			

ADDITIONAL Installation Notes:

ADDITIONAL Mandatory Maintenance Notes:

14.2 MAINTENANCE AND NOTE REGISTER

Date	Operation description (including components replacement)	Full name and signature specialized technician
NOTES:		

14.3 PRODUCTION NOTES



See the product sheet attached to the back cover.

YOUR REF.:		OUR QUOTATION NO.:				DATE:	
SIDE OF THE PERGOLA	L (recess inner edge of the post)	H (recess under the gutter)	MOTOR	CONTROL POSITION (external view)	POWER CONTROL	FABRIC	FRONT PROFILE FINISH
AX2							
AX1							
AY1							
AY2							
AX3							
AX4							
AV3							
AV4							
BX1							
BX2							
BY1							
BY2							
BY3							
BY4							

COMPANY:		POWDER COATING	
		COLOUR	
		<input type="checkbox"/> SATIN <input type="checkbox"/> MATT <input type="checkbox"/> SABLE	
		* ADDITIONAL POST TO BE CONSIDERED WHEN INTEGRATED ZIP SCREENS ARE SELECTED	
		NOTES:	

ISLAND	FRONT LEANING	LATERAL LEANING

SHIPMENT:		DELIVERY ON:	
<input type="checkbox"/> Ex works	<input type="checkbox"/> Delivery Gibus		



(*) The declaration of correct installation given by Gibus' specialized technician is essential for the warranty to remain valid. Please refer to the hologram and the serial number given on the last page.

DECLARATION OF INSTALLATION (*) VARIA side drop awning		
Installation:	Date:	Stamp and signature Gibus technician:
Installation Notes:		
Installation Notes:		
Mandatory maintenance within the end of the 2nd year	Date:	Stamp and signature Gibus technician:
Mandatory maintenance within the end of the 3rd year	Date:	Stamp and signature Gibus technician:
Mandatory maintenance within the end of the 4nd year	Date:	Stamp and signature Gibus technician:
Mandatory maintenance within the end of the 5nd year	Date:	Stamp and signature Gibus technician:

PRODUCT SHEET

(**) **g_{val}** value referring to the indicated fabric awning positioned vertically in front of a glass window. The value corresponding to the specific application must be determined by taking all the specifications of the housing unit and the inclination of the fabric into account. The **g_{val}** **Class** can be found in the corresponding table on the previous page.



(*) The declaration of correct installation given by Gibus' specialized technician is essential for the warranty to remain valid. Please refer to the hologram and the serial number given on the last page.

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Mandatory maintenance within the end of the 4nd year	Date:	Stamp and signature Gibus technician:
Mandatory maintenance within the end of the 5nd year	Date:	Stamp and signature Gibus technician:

PRODUCT SHEET

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Mandatory maintenance within the end of the 5nd year	Date:	Stamp and signature Gibus technician:

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Mandatory maintenance within the end of the 4nd year	Date:	Stamp and signature Gibus technician:
Mandatory maintenance within the end of the 5nd year	Date:	Stamp and signature Gibus technician:

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Mandatory maintenance within the end of the 4nd year	Date:	Stamp and signature Gibus technician:
Mandatory maintenance within the end of the 5nd year	Date:	Stamp and signature Gibus technician:

PRODUCT SHEET

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Mandatory maintenance within the end of the 4nd year	Date:	Stamp and signature Gibus technician:
Mandatory maintenance within the end of the 5nd year	Date:	Stamp and signature Gibus technician:

PRODUCT SHEET

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Installation:	Date:	Stamp and signature Gibus technician:
Installation Notes:		
Mandatory maintenance within the end of the 2nd year	Date:	Stamp and signature Gibus technician:
Mandatory maintenance within the end of the 3rd year	Date:	Stamp and signature Gibus technician:
Mandatory maintenance within the end of the 4nd year	Date:	Stamp and signature Gibus technician:
Mandatory maintenance within the end of the 5nd year	Date:	Stamp and signature Gibus technician:

PRODUCT SHEET

(**) **g_{val}** value referring to the indicated fabric awning positioned vertically in front of a glass window. The value corresponding to the specific application must be determined by taking all the specifications of the housing unit and the inclination of the fabric into account. The **g_{val}** **Class** can be found in the corresponding table on the previous page.

CHAPTER 15: ANNEXES

ANNEX 0 - EC MARKING

 THE SUN FACTORY Via Einaudi, 35 - 35030 Saccolongo (PD) <div style="text-align: center;">17</div>	 EN 13561
Declaration of Performance no: Bioclimatic Pergola with brise solei for external use MODEL: Gibus® mod. VARIA Wind resistance VARIA: Wind resistance Side drop awnings: Total solar energy transmittance g_{tot} VARIA: Total solar energy transmittance g_{tot} Side drop awnings:	MUT 092-CPR-25-02-2017 Technical class 4 Technical class 3 See the production specifications on the back cover See the production charts in the previous pages

ANNEX 1 - SELF-CERTIFICATION DOCUMENT (*)

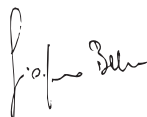
PERFORMANCE DECLARATION no: MUT 092-CPR-25-02-2017

1. Unique identification code for the product-type: Gibus® mod. VARIA
2. Serial number: **see the HOLOGRAM on the back cover**
3. Designed use: **Bioclimatic Pergola with brise Solei for external use**
4. Name and address of the manufacturer: **Gibus S.p.A. - Via Einaudi, 35 - 35030 Saccolongo**
www.gibus.it - E-mail: gibus@gibus.it
6. Assessment and check system of constant performance: **System 4**
9. Performance declared in accordance with the **UNI EN 13561** harmonized standard:

Essential Characteristics	Declared performance					
Resistenza al vento	Class 4 of the VARIA - Class 3 of the side drop awnings					
Solar factor g_{tot} according to EN 14501	See the value in the product specifications on the back cover (**)					
	Class	0	1	2	3	4
	g_{tot}	$g_{tot} \geq 0,50$	$0,35 \leq g_{tot} < 0,50$	$0,15 \leq g_{tot} < 0,35$	$0,10 \leq g_{tot} < 0,15$	$g_{tot} \leq 0,1$

10. The performance of the unit given in the items 1 and 2 complies with the performance declared in the item 9. This performance declaration is issued under the manufacturer's sole responsibility as per item 4.



Saccolongo, 25/02/2017
Signed in the name of and on behalf of: Gianfranco Bellin
Chief Executive Officer



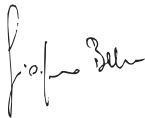
(*) IMPORTANT NOTE: the stated performance is only guaranteed if the installation of the product is carried out correctly by the authorized dealer. The latter is required to compile the "DECLARATION OF CORRECT INSTALLATION", which should be left with the final customer when installation is completed.

CHAPTER 15: ANNEXES

ANNEX 2 - UKCA MARKING

 THE SUN FACTORY Via Einaudi, 35 - 35030 Saccolongo (PD) <u>22</u>	 EN 13561
Declaration of Performance no: Bioclimatic Pergola with brise solei for external use MODEL: Gibus® mod. VARIA Wind resistance VARIA: Wind resistance Side drop awnings: Total solar energy transmittance g_{tot} VARIA: Total solar energy transmittance g_{tot} Side drop awnings:	MUT 092-CPR-30-10-2022 Technical class 4 Technical class 3 See the production specifications on the back cover See the production charts in the previous pages

ANNEX 3 - SELF-CERTIFICATION DOCUMENT (*)

PERFORMANCE DECLARATION no: MUT 092-CPR-30-10-2022						
1. Unique identification code for the product-type: Gibus® mod. VARIA 2. Serial number: see the HOLOGRAM on the back cover 3. Designed use: Bioclimatic Pergola with brise Solei for external use 4. Name and address of the manufacturer: Gibus S.p.A. - Via Einaudi, 35 - 35030 Saccolongo www.gibus.it - E-mail: gibus@gibus.it 6. Assessment and check system of constant performance: System 4 9. Performance declared in accordance with the UNI EN 13561 harmonized standard:						
Essential Characteristics	Declared performance					
Resistenza al vento	Class 4 of the VARIA - Class 3 of the side drop awnings					
Solar factor g_{tot}	See the value in the product specifications on the back cover (**)					
	Class	0	1	2	3	4
according to EN 14501	g_{tot}	$g_{tot} \geq 0,50$	$0,35 \leq g_{tot} < 0,50$	$0,15 \leq g_{tot} < 0,35$	$0,10 \leq g_{tot} < 0,15$	$g_{tot} \leq 0,1$
10. The performance of the unit given in the items 1 and 2 complies with the performance declared in the item 9. This performance declaration is issued under the manufacturer's sole responsibility as per item 4.						
Saccolongo, 30/10/2022 Signed in the name of and on behalf of: Gianfranco Bellin Chief Executive Officer 						

(*) IMPORTANT NOTE: the stated performance is only guaranteed if the installation of the product is carried out correctly by the authorized dealer. The latter is required to compile the "DECLARATION OF CORRECT INSTALLATION", which should be left with the final customer when installation is completed.



HOLOGRAM

Gibus S.p.A.

via Luigi Einaudi, 35

35030 Saccolongo (PD) - ITALY

www.gibus.it - gibus@gibus.it



PRODUCT SHEET

(**) **g_{tot} value** referring to the indicated fabric awning positioned vertically in front of a glass window. The value corresponding to the specific application must be determined by taking all the specifications of the housing unit and the inclination of the fabric into account. The **g_{tot} Class** can be found in the corresponding table on the previous page.