



USE AND MAINTENANCE MANUAL

DECLARATION OF QUALITY

DECLARATION OF WARRANTY

DECLARATION OF PERFORMANCE DoP

MODEL

VELVET PLUS

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 built-in side drop awnings.
Self-supporting or wall leaning version for outdoor use.
Models: VELVET PLUS (ISLAND - LEANING VERSION)
Published: Gibus S.p.A. via L. Einaudi, 35 - 35030 SACCOLONGO (PD) - ITALY
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:

- **VELVET PLUS ISLAND:** Self-supporting isolated Bioclimatic pergola with cover made up of a brise-soleil with swinging and retractable adjustable blades and built-in side drop awnings (blinds with zip system), available in single or multi-module versions, with coupling modules.
- **VELVET PLUS LEANING VERSION:** Self-supporting Bioclimatic pergola attached to the wall with a cover made up of a brise-soleil with swinging and retractable adjustable blades and built-in side drop awnings (blinds with zip system), available in single or multi-module versions, 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 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 5 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 270 [N/m²] (Newton/m²) similar to a wind insisting on the awning with a maximum speed of 70 [km/h] corresponding to the 7–8th 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 Pergola 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 5 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 270 [N/m²] (Newton/m²) similar to a wind against the awning with a maximum speed of 70 [km/h] corresponding to the 7–8th 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 Pergola 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 Pergola 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 in fact provides good protection from the rain when extended with the brise soleil blades in a horizontal position.

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.

The VELVET PLUS model is characterized by the possibility of retracting the brise-soleil blades to open the cover. Packing (collection) of the blades can only take place with the blades oriented vertically. With the blades extended (upper opening obstructed) the orientation of the blades can be controlled independently from the collection (from horizontal to vertical). The vertical orientation of the brise soleil blades with extended configuration is recommended in case of snowfall. The open space between the vertical blades helps to avoid or reduce the accumulation of snow on them. It is advisable to use the snow sensor, temperature sensor combined with the rain sensor, to detect snow and to orient the blades vertically in order to prevent it depositing.

In all cases, do not stand under 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 equal to those required by the Class 5 of UNI EN 13561. It is therefore recommended the exposure to a wind exerting a maximum pressure of 270 Newton/sqm, corresponding to the load of a continuous wind speed not exceeding 70 km/h.

It is required, for the sake of safety, to open the swinging metal blades vertically before the given limit is reached (even though the pergola offers higher wind resistance depending on its size).

In these meteoric conditions the vertically oriented blades can also be collected while remaining in a safe condition.



IMPORTANT!: If perimeter closures, such as side drop awnings or glass doors, are installed in the VELVET PLUS pergola, they must be folded/retracted before the maximum sustainable wind limit is reached for the pergola even if their wind resistance class is higher than that of the pergola.

(*) The VELVET PLUS pergola is designed to withstand, with the blades in the closed position, a static load from deposited snow 50 kg/m² (without wind).



CAUTION: for safety reasons, the brise-soleil blades on the pergola must be placed vertically in case of very strong rain or hail. In the event of snow or ice, the blades must be retracted/ folded to about 2/3 - 66% (not completely), leaving a gap of 5 cm between one blade and the next to prevent the accumulation of snow (**); it is very dangerous to leave the blades placed horizontally in these cases, as it can cause injury to persons and damage to property. Do not stand under or near the pergola if any snow has deposited onto it.

(**) In the event of that ice or snow has accumulated on the cover, it might be difficult to open the blades if they are in the 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. SIf the brise soleil blades are in the extended and horizontal position (cover closed) when the alarm is activated, the device directs the blades to the open position at approximately 2/3 - 66%. If the brise soleil blades are in the collected and vertical position (cover open) when the alarm is activated, the device extends the blades and directs them to the open position at approximately 2/3 - 66%. The control unit does not perform any command during the status of alarm and it resumes its normal operation when the alarm is not active anymore.

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

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**.

Rain sensor: When the sensor detects the rain, the alarm is activated. If the brise soleil blades are in an extended and horizontal position (cover closed) when the alarm is activated, the device leaves the blades as they are. If the brise soleil blades are in a collected and vertical position (cover open) when the alarm is activated, the device extends the blades and directs them into a horizontal position (cover closed). The control unit 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):

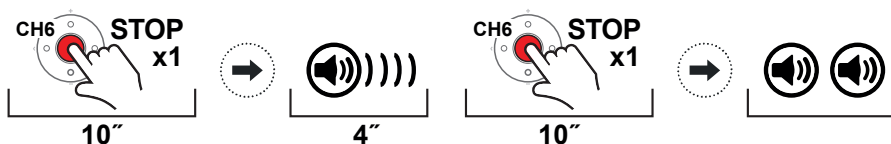
Once the rain alarm is off, for the next 6 hours, as soon as a command of automatic movement sent by transmitter is received, the control unit will rotate the blades when opening to 33%, to allow the water draining. For 4 minutes the control unit will perform just hold-to-run commands, switching off 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 blades are stationary. By default the sensor is activated.

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

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

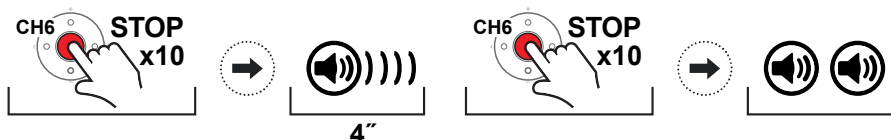


Temperature sensor: The sensor detects the temperature that could cause the freezing of the pergola slats. If it is under 2°C the alarm is activated. If the brise soleil blades are in the extended and horizontal position (cover closed) when the alarm is activated, the device directs the blades to the open position at approximately 2/3 - 66%. If the brise soleil blades are in the collected and vertical position (cover open) when the alarm is activated, the device extends the blades and directs them into the open position at approximately 2/3 - 66%. 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 (possible only if the sensor is connected):

Press the STOP key on the transmitter 10 times, keeping it pressed for the tenth time for 2". The buzzer emits for 4" a continuous sound.

Deactivation: Press the STOP key on the transmitter 10 times, keeping it pressed for the tenth time for 2". The buzzer emits 2 beeps.



Snow condition (temperature sensor combined with rain sensor):

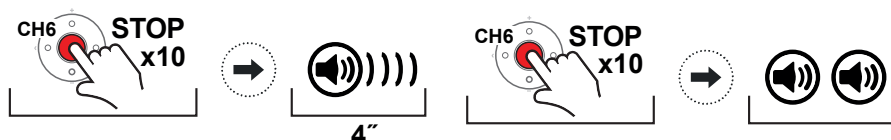
To manage the alarm related to the condition of snow it's necessary combine temperature sensor and rain sensor. The alarm is on when the temperature is under 2°C and the rain has been detected, then the device moves the brise soleil blades at the 66% of the opening.

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 (possible only if the sensor is connected):

Press the STOP key on the transmitter 10 times, keeping it pressed for the tenth time for 2". The buzzer emits for 4", a continuous sound.

Deactivation: Press the STOP key on the transmitter 10 times, keeping it pressed for the tenth time for 2". The buzzer emits 2 beeps.



Electronic antifreeze system in the gutter:

The Gibus antifreeze system is a system for heating the upper surface of the gutters and is able to prevent the formation and/or excessive accumulation of snow in the gutter.



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 **VELVET PLUS** 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 **VELVET PLUS ISLAND** is a bioclimatic pergola with an aluminium moveable brise soleil, built in a special and dedicated self-supporting structure with built-in side awnings (i.e. drop awnings). It is installed in a stand-alone way and isolated from any building.

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

The cover is formed by metal adjustable and retractable blades. Built-in side drop awnings. 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; side shading is provided when the side awnings are open. 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 the blades to move by a remote control. Side drop awnings are moved by tubular motors.

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® **VELVET Motion**: brise soleil blades movement system which, with the blades extended, allows the opening movement of the blades (orientation) independently of their packing.



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® **Quick Blade**: system for the rapid insertion and removal of the brise soleil blades.



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



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

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 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 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 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 drive system for blade orientation consists of 2 linear motors. The drive system for blade packing consists of 2 gearmotors. The piloting and control system takes place with synchronised control units. Degree of protection: IP66. Noise level: max. 60 dB (A). Working temperature: -15°C to +55°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 product needs a 230V/50Hz power supply.



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.

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.

VELVET PLUS Electric Features

Type	Bioclimatic pergola.		
Power supply	230 V (+10% +15%) 50Hz (*)		
Max. absorbed power	320 W 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. about 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 mm²	3G 2,5 mm²	3G 4,0 mm²
up to 50 m	3G 2,5 mm²	3G 4,0 mm²	3G 10,0 mm²
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 54		
(*) : 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).



CAUTION: Never set the wind speed above the wind resistance of the awning itself (maximum threshold recommended for VELVET PLUS: 60 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® PRECONTRAIINT 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, weft 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

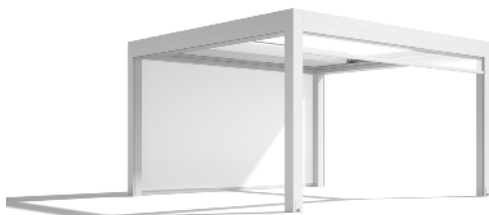
3.7 NOISE LEVEL

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

CHAPTER 4: TECHNICAL DATA

4.1 TYPE

VELVET PLUS ISLAND (Basic Module)



With 4 legs:
Width up to 450 cm
Projection up to 607 cm

VELVET PLUS FRONTAL LEANING VERSION (Basic Module)

Tubular motor parallel to the wall



With 2 legs:
Width up to 450 cm
Projection up to 607 cm

VELVET PLUS LATERAL LEANING VERSION (Basic Module)

Tubular motor perpendicular to the wall



With 2 legs:
Width up to 607 cm
Projection up to 450 cm

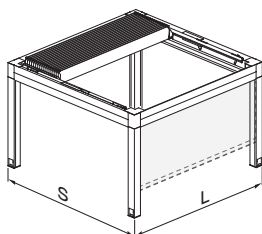
COMPLEMENTS

- Blades Insulation.
- Lighting with LED.
- Interface for Smart Devices control.
- Radio interface for Domotic System.
- Heaters.
- Audio system.

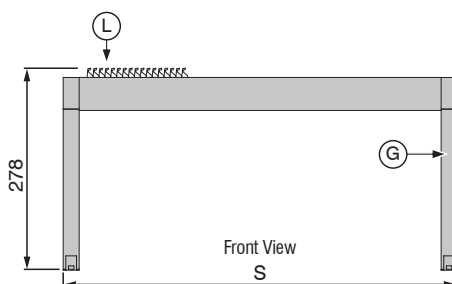
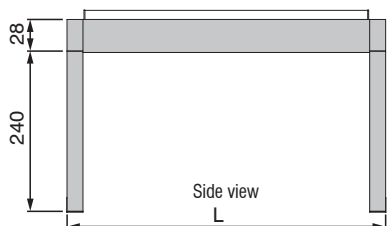
OPTIONAL

- Additional leg.
- Drainage pipe integrated integrated in the post.
- Increased footing (single or double).
- Overhanging guide.

4.2 VELVET PLUS ISLAND



ISLAND - SINGLE MODULE
4 LEGS max. L x S 4,50 x 6,07



1 Module	WIDTH "L" (cm)											G	L
	200	225	250	275	300	325	350	375	400	425	450	n°	n°
	kg												
PROJECTION "S" (cm)	207	296	309	322	335	348	361	374	386	399	412	425	8
	227	311	324	338	351	365	379	392	406	419	433	446	9
	247	325	339	354	368	382	396	411	425	439	454	468	10
	267	339	354	369	384	399	414	429	444	459	474	489	11
	287	354	369	385	401	416	432	448	464	479	495	511	12
	307	368	384	401	417	434	450	466	483	499	516	532	13
	327	382	399	416	434	451	468	485	502	519	536	554	14
	347	396	414	432	450	468	486	504	521	539	557	575	15
	367	411	429	448	466	485	504	522	541	559	578	596	16
	387	425	444	464	483	502	521	541	560	579	599	618	17
	407	443	463	483	503	523	543	563	583	603	623	643	18
	427	457	478	499	519	540	561	582	602	623	644	664	19
	447	472	493	514	536	557	579	600	622	643	664	686	20
	467	486	508	530	552	574	597	619	641	663	685	707	21
	487	500	523	546	569	592	614	637	660	683	706	729	22
	507	518	542	565	589	612	636	660	683	707	730	754	23
	527	532	557	581	605	630	654	678	702	727	751	775	24
	547	547	572	597	622	647	672	697	722	747	772	797	25
	567	561	587	612	638	664	690	715	741	767	792	818	26
	587	575	602	628	655	681	707	734	760	787	813	840	27
	607	590	617	644	671	698	725	752	780	807	834	861	28

Legend:

kg = Total pergola weight including the supporting structure and brise soleil blades.

G = Legs.

L = Brise soleil blades.



IMPORTANT: For each size the load shown in the table is still greater than the one provided by Class 5 - UNI EN 13561 / UNI EN 1932 (nominal load continuously distributed on the extended surface equal to approximately 27 [kg/m²] or 270 [N/m²]).

Indicative Maximum vertical load [kg/m ²]								
"S" \ "L"	G	L	200	250	300	350	400	450
207	4	8	1105	758	714	648	499	346
307		13	771	632	498	452	348	241
407		18	580	510	468	378	314	223
507		23	479	409	369	333	280	217
607		28	400	341	313	278	234	187

Snow load without wind [kg/m ²]								
"S" \ "L"	G	L	200	250	300	350	400	450
207	4	8	737	505	476	432	333	231
307		13	514	421	332	301	232	161
407		18	387	340	312	252	210	149
507		23	320	272	246	222	187	145
607		28	267	227	209	185	156	125



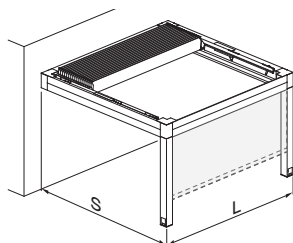
The values reported in the table on the right, show the snow load resistance when there is no wind. The pergola structure and cover are designed and certified to resist a deposited snow load (with no wind) that varies by size. **In case of snow, it is advised to the blades must be placed vertically (open) 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

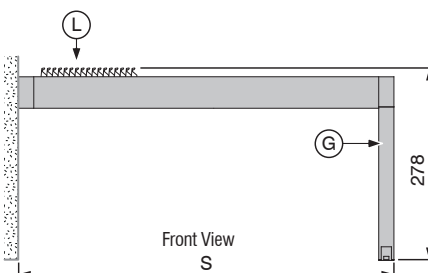
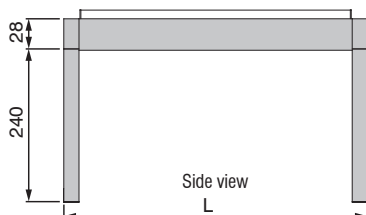
Wind Resistance [kg/m ²] Without Integrated ZIP Screens								
"S" \ "L"	G	L	200	250	300	350	400	450
207	4	8	510	300	290	290	250	184
227		9	452	280	270	265	215	163
247		10	394	262	242	232	187	142
267		11	337	230	210	198	160	122
287		12	291	194	186	171	138	105
307		13	254	196	160	149	121	92
327		14	224	185	140	131	112	86
347		15	198	176	137	116	107	83
367		16	177	157	133	104	106	81
387		17	159	141	130	104	102	81
407		18	144	130	128	104	98	79
427		19	139	116	116	95	89	77
447		20	127	106	106	86	81	77
467		21	116	97	97	87	81	77
487		22	107	89	89	85	81	74
507		23	98	82	80	81	78	70
527		24	91	76	76	75	72	66
547		25	84	72	71	70	67	65
567		26	79	66	66	65	62	62
587		27	73	61	61	60	58	59
607		28	68	57	57	56	54	55

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
207	4	8	600	355	340	335	350	282
227		9	555	331	320	310	310	251
247		10	484	308	295	285	271	219
267		11	414	284	270	260	231	187
287		12	358	260	240	230	200	161
307		13	312	250	220	205	175	141
327		14	275	230	200	181	162	132
347		15	244	223	180	160	155	128
367		16	218	199	176	143	153	124
387		17	196	179	172	143	147	124
407		18	177	162	168	143	142	121
427		19	171	147	153	130	129	118
447		20	156	134	139	125	120	118
467		21	142	123	128	120	119	119
487		22	131	117	117	114	114	114
507		23	121	112	111	111	109	106
527		24	112	106	105	103	101	101
547		25	104	98	98	96	96	95
567		26	99	98	97	96	96	93
587		27	90	89	88	87	87	87
607		28	87	87	86	86	86	86

4.3 VELVET PLUS FRONTAL LEANING VERSION



FRONTAL LEANING VERSION - SINGLE MODULE
2 LEGS max. L x S 4,50 x 6,07



1 Module	WIDTH "L" (cm)											G	L
	200	225	250	275	300	325	350	375	400	425	450	n°	n°
	kg												
PROJECTION "S" (cm)	207	259	272	285	298	311	323	336	349	362	375	388	8
	227	274	287	301	314	328	341	355	368	382	396	409	9
	247	288	302	316	331	345	359	373	388	402	416	431	10
	267	302	317	332	347	362	377	392	407	422	437	452	11
	287	316	332	348	363	379	395	411	426	442	458	473	12
	307	331	347	363	380	396	413	429	446	462	478	495	13
	327	345	362	379	396	413	431	448	465	482	499	516	14
	347	359	377	395	413	431	448	466	484	502	520	538	15
	367	373	392	411	429	448	466	485	503	522	541	559	16
	387	388	407	426	446	465	484	503	523	542	561	581	17
	407	406	426	446	466	486	506	526	546	566	586	606	18
	427	420	441	461	482	503	524	544	565	586	606	627	19
	447	434	456	477	499	520	541	563	584	606	627	649	20
	467	449	471	493	515	537	559	581	604	626	648	670	21
	487	463	486	509	531	554	577	600	623	646	669	692	22
	507	481	504	528	552	575	599	622	646	670	693	717	23
	527	495	519	544	568	592	617	641	665	690	714	738	24
	547	509	534	559	584	609	635	660	685	710	735	760	25
	567	524	549	575	601	627	652	678	704	730	755	781	26
	587	538	564	591	617	644	670	697	723	750	776	802	27
	607	552	579	607	634	661	688	715	742	770	797	824	28

Legend:

kg = Total pergola weight including the supporting structure and brise soleil blades.

G = Legs.

L = Brise soleil blades.



IMPORTANT: For each size the load shown in the table is still greater than the one provided by Class 5 - UNI EN 13561 / UNI EN 1932 (nominal load continuously distributed on the extended surface equal to approximately 27 [kg/m²] or 270 [N/m²]).

Indicative Maximum vertical load [kg/m ²]								
"S" \ "L"	G	L	200	250	300	350	400	450
207	2	8	1160	787	731	648	482	311
307		13	809	657	509	452	336	217
407		18	609	529	479	378	303	201
507		23	503	424	378	333	270	195
607		28	420	354	320	278	225	168

Snow load without wind [kg/m ²]								
"S" \ "L"	G	L	200	250	300	350	400	450
207	2	8	780	530	490	432	318	202
307		13	546	442	341	301	222	141
407		18	411	356	321	252	200	130
507		23	339	285	253	222	178	127
607		28	283	238	215	185	149	109



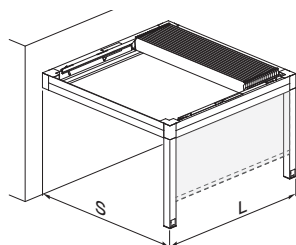
The values reported in the table on the right, show the snow load resistance when there is no wind. The pergola structure and cover are designed and certified to resist a deposited snow load (with no wind) that varies by size. **In case of snow, it is advised to the blades must be placed vertically (open) 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

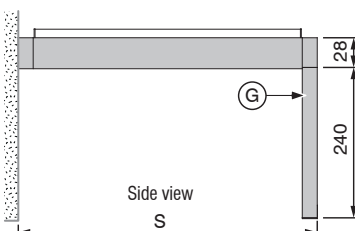
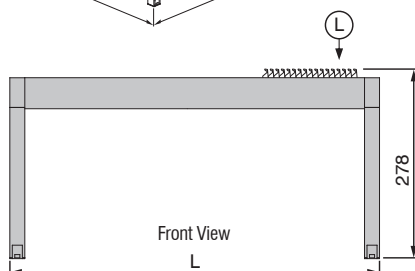
Wind Resistance [kg/m ²] Without Integrated ZIP Screens								
"S" \ "L"	G	L	200	250	300	350	400	450
207	2	8	510	340	310	299	242	184
227		9	452	300	275	265	215	163
247		10	394	270	240	232	187	142
267		11	337	230	210	198	160	122
287		12	291	200	180	171	138	105
307		13	254	196	155	149	121	92
327		14	224	185	140	131	112	86
347		15	198	176	137	116	107	83
367		16	177	157	133	104	106	81
387		17	159	141	130	104	102	81
407		18	144	129	125	104	98	79
427		19	139	116	116	95	89	77
447		20	127	106	106	95	81	77
467		21	116	97	96	87	81	77
487		22	107	89	89	83	81	74
507		23	98	82	81	81	78	74
527		24	91	77	76	75	72	70
547		25	84	72	71	70	67	68
567		26	79	68	66	65	62	63
587		27	73	62	61	60	58	59
607		28	68	58	57	56	54	55

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
207	2	8	1045	620	580	569	444	322
227		9	927	550	520	505	394	286
247		10	809	488	460	441	344	249
267		11	691	451	390	376	294	213
287		12	597	389	345	325	254	184
307		13	521	394	300	284	221	161
327		14	459	372	275	250	205	150
347		15	407	353	268	222	197	146
367		16	364	316	261	198	194	141
387		17	327	284	256	198	187	141
407		18	295	256	251	198	181	138
427		19	285	233	228	180	164	135
447		20	260	212	208	164	149	135
467		21	238	194	190	166	149	135
487		22	219	178	175	158	149	130
507		23	202	165	156	154	143	130
527		24	187	152	149	143	132	116
547		25	173	141	138	132	123	119
567		26	161	131	129	123	114	111
587		27	150	123	120	115	107	103
607		28	140	115	112	107	100	96

4.4 VELVET PLUS LATERAL LEANING VERSION



LATERAL LEANING VERSION SINGLE MODULE
2 LEGS max. S x L 4,50 x 6,07



1 Module		WIDTH "L" (cm)											G	L
		200	225	250	275	300	325	350	375	400	425	450	n°	n°
		kg												
PROJECTION "S" (cm)	207	259	272	285	298	311	323	336	349	362	375	388	2	8
	227	274	287	301	314	328	341	355	368	382	396	409		9
	247	288	302	316	331	345	359	373	388	402	416	431		10
	267	302	317	332	347	362	377	392	407	422	437	452		11
	287	316	332	348	363	379	395	411	426	442	458	473		12
	307	331	347	363	380	396	413	429	446	462	478	495		13
	327	345	362	379	396	413	431	448	465	482	499	516		14
	347	359	377	395	413	431	448	466	484	502	520	538		15
	367	373	392	411	429	448	466	485	503	522	541	559		16
	387	388	407	426	446	465	484	503	523	542	561	581		17
	407	406	426	446	466	486	506	526	546	566	586	606		18
	427	420	441	461	482	503	524	544	565	586	606	627		19
	447	434	456	477	499	520	541	563	584	606	627	649		20
	467	449	471	493	515	537	559	581	604	626	648	670		21
	487	463	486	509	531	554	577	600	623	646	669	692		22
	507	481	504	528	552	575	599	622	646	670	693	717		23
	527	495	519	544	568	592	617	641	665	690	714	738		24
	547	509	534	559	584	609	635	660	685	710	735	760		25
	567	524	549	575	601	627	652	678	704	730	755	781		26
	587	538	564	591	617	644	670	697	723	750	776	802		27
	607	552	579	607	634	661	688	715	742	770	797	824		28

Legend:

kg = Total pergola weight including the supporting structure and brise soleil blades.

G = Legs.

L = Brise soleil blades.



IMPORTANT: For each size the load shown in the table is still greater than the one provided by Class 5 - UNI EN 13561 / UNI EN 1932 (nominal load continuously distributed on the extended surface equal to approximately 27 [kg/m²] or 270 [N/m²]).

Indicative Maximum vertical load [kg/m ²]								
"S" \ "L"	G	L	200	250	300	350	400	450
207	2	8	1160	787	731	648	482	311
307		13	809	657	509	452	336	217
407		18	609	529	479	378	303	201
507		23	503	424	378	333	270	195
607		28	420	354	320	278	225	168

Snow load without wind [kg/m ²]								
"S" \ "L"	G	L	200	250	300	350	400	450
207	2	8	780	530	490	432	318	202
307		13	546	442	341	301	222	141
407		18	411	356	321	252	200	130
507		23	339	285	253	222	178	127
607		28	283	238	215	185	149	109



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
207	2	8	510	340	310	299	242	184
227		9	452	300	275	265	215	163
247		10	394	270	240	232	187	142
267		11	337	230	210	198	160	122
287		12	291	200	180	171	138	105
307		13	254	196	155	149	121	92
327		14	224	185	140	131	112	86
347		15	198	176	137	116	107	83
367		16	177	157	133	104	106	81
387		17	159	141	130	104	102	81
407		18	144	129	125	104	98	79
427		19	139	116	116	95	89	77
447		20	127	106	106	95	81	77
467		21	116	97	96	87	81	77
487		22	107	89	89	83	81	74
507		23	98	82	81	81	78	74
527		24	91	77	76	75	72	70
547		25	84	72	71	70	67	68
567		26	79	68	66	65	62	63
587		27	73	62	61	60	58	59
607		28	68	58	57	56	54	55

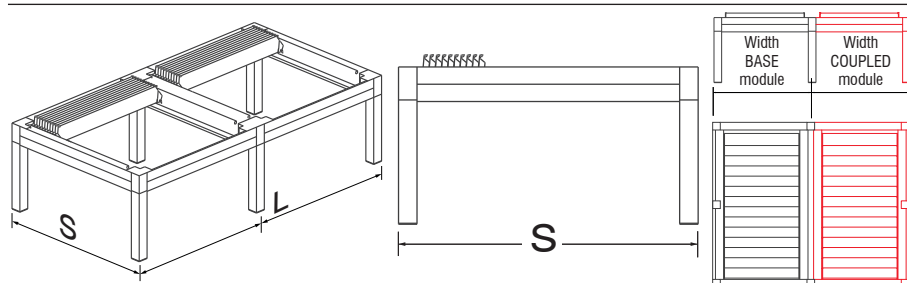
Wind Resistance [kg/m ²] Integrated ZIP Screens closed or semi-closed on 2 or 4 sides								
"S" \ "L"	G	L	200	250	300	350	400	450
207	2	8	1045	620	580	569	444	322
227		9	927	550	520	505	394	286
247		10	809	488	460	441	344	249
267		11	691	451	390	376	294	213
287		12	597	389	345	325	254	184
307		13	521	394	300	284	221	161
327		14	459	372	275	250	205	150
347		15	407	353	268	222	197	146
367		16	364	316	261	198	194	141
387		17	327	284	256	198	187	141
407		18	295	256	251	198	181	138
427		19	285	233	228	180	164	135
447		20	260	212	208	164	149	135
467		21	238	194	190	166	149	135
487		22	219	178	175	158	149	130
507		23	202	165	156	154	143	130
527		24	187	152	149	143	132	116
547		25	173	141	138	132	123	119
567		26	161	131	129	123	114	111
587		27	150	123	120	115	107	103
607		28	140	115	112	107	100	96

4.5 COUPLING MODULE

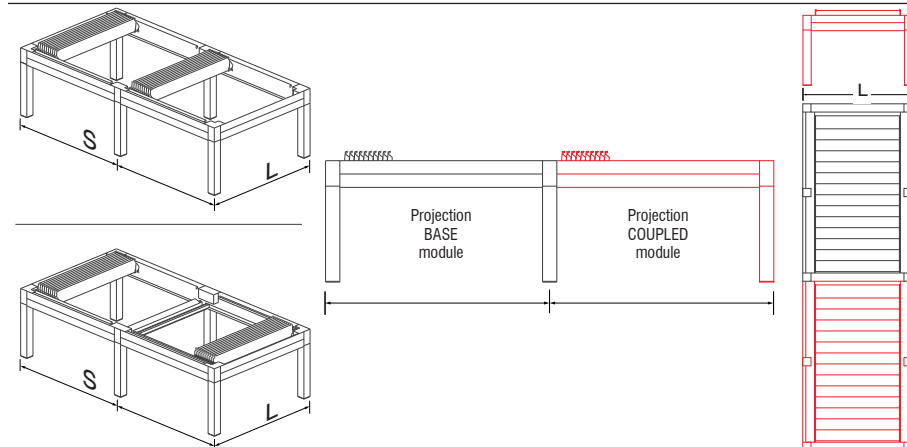
The coupling module enables multiplying the number of spans on the pergola, to form a continuous pergola. The coupled modules share the intermediate uprights.

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.

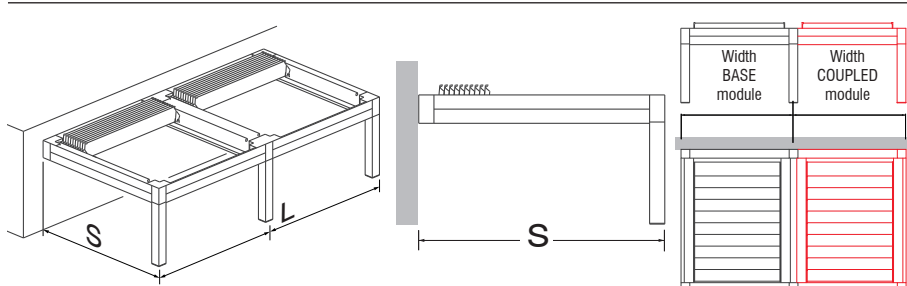
VELVET PLUS ISLAND WITH COUPLING MODULE TYPE 1 COUPLING



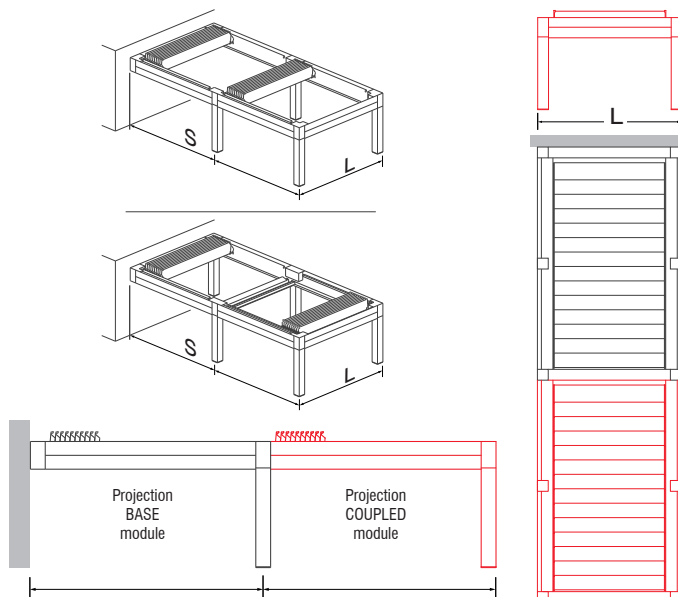
VELVET PLUS ISLAND WITH COUPLING MODULE TYPE 2 COUPLING



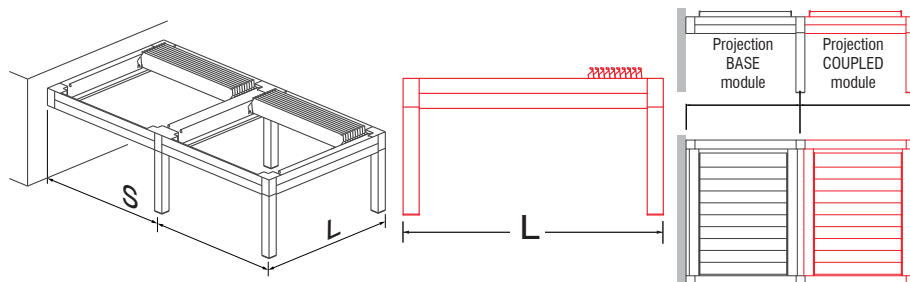
VELVET PLUS FRONTAL LEANING VERSION WITH COUPLING MODULE TYPE 1 COUPLING



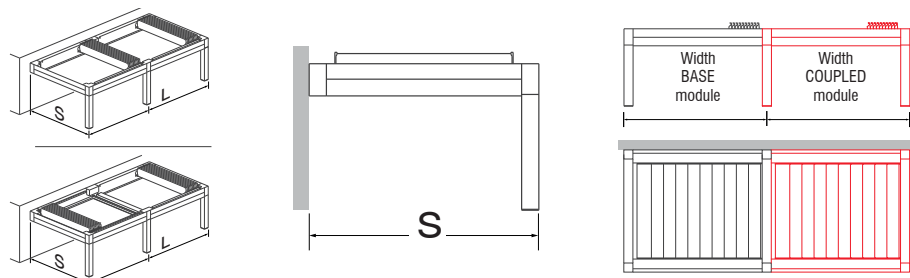
VELVET PLUS FRONTAL LEANING VERSION WITH COUPLING MODULE TYPE 2 COUPLING



VELVET PLUS LATERAL LEANING VERSION WITH COUPLING MODULE TYPE 1 COUPLING



VELVET PLUS LATERAL LEANING VERSION WITH COUPLING MODULE TYPE 2 COUPLING

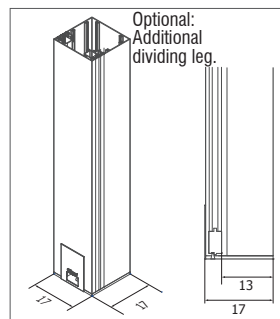
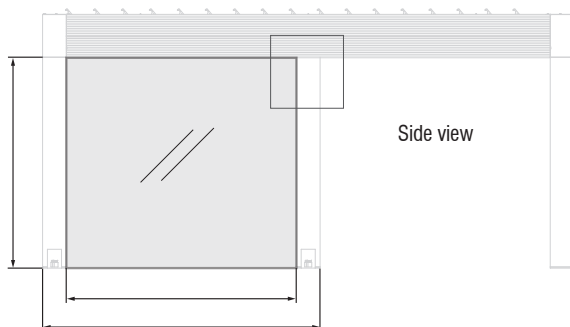


4.6 VELVET PLUS SIDE DROP AWNINGS



The side drop awnings to integrate in the VELVET PLUS 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.



Side drop awnings can be assembled on a VELVET PLUS 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 VELVET PLUS 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 - VELVET PLUS 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 - VELVET PLUS 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. **It is therefore not recommended to ground the structure.** 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 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.**

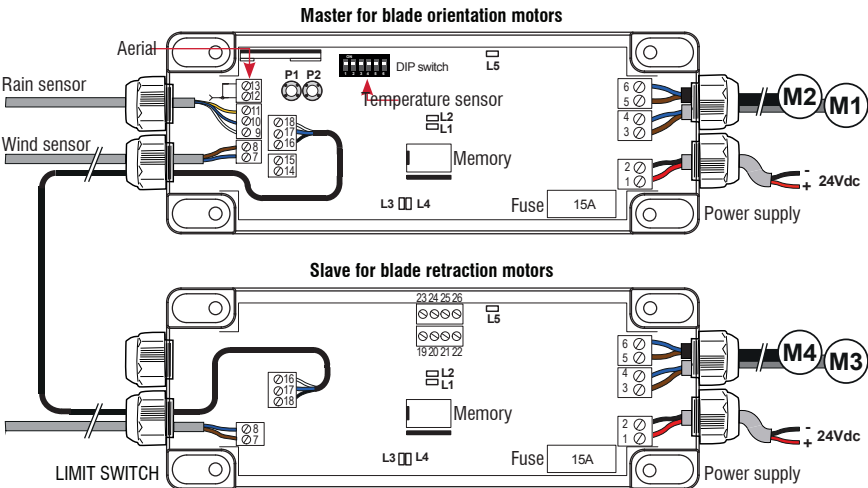


IMPORTANT! The wiring diagrams and installation instructions for the use of electronic control units are annexed to the control units themselves and should accompany this manual along with the Installation Instructions and be carefully stored for subsequent consultations.



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 VELVET



SIGNAL			
1	POWER SUPPLY (+24Vdc)	13	GND AERIAL
2	POWER SUPPLY (GND)	14	TEMPERATURE SENSOR (black)
3	MOTOR 1 / 3 (OPEN)	15	TEMPERATURE SENSOR (white)
4	MOTOR 1 / 3 (CLOSE)	16	RS485
5	MOTOR 2 / 4 (OPEN)	17	RS485
6	MOTOR 2 / 4 (CLOSE)	18	RS485
7 M	(master) WIND SENSOR (blue)	19	GND ENCODER M3
8 M	(master) WIND SENSOR (brown)	20	ENCODER A M3
7 S	(slave) REED CONTACT	21	ENCODER B M3
8 S	(slave) REED CONTACT	22	+5 VDC ENCODER M3
9	RAIN SENSOR (white, 12V)	23	+5 VDC ENCODER M4
10	RAIN SENSOR (blue, SIGNAL)	24	ENCODER A M4
11	RAIN SENSOR (yellow, GND)	25	ENCODER B M4
12	RF AERIAL	26	GND ENCODER M4

DIP	MEANING
1 - 2 - 3	SETTING OF WIND SENSOR THRESHOLD
4	MOTOR FOR ORIENTATION OR RETRACTION CONTROL
6	MAXIMUM MOTOR CURRENT THRESHOLD SET DURING CONFIGURATION



- Sensor configuration:**
- The temperature sensor must be activated.
 - The snow sensor (rain and temperature combined) must be activated.
 - The rain sensor is already activated.
 - The wind sensor is already activated.



ATTENTION: The electronic board is protected by a 15A fuse. The maximum permitted power is 360W.

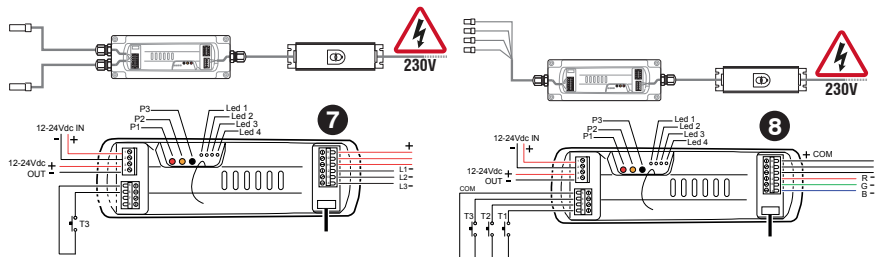


Note: follow the electrical diagrams and the “Installation Instructions” which are kept in the awning accessory box.

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

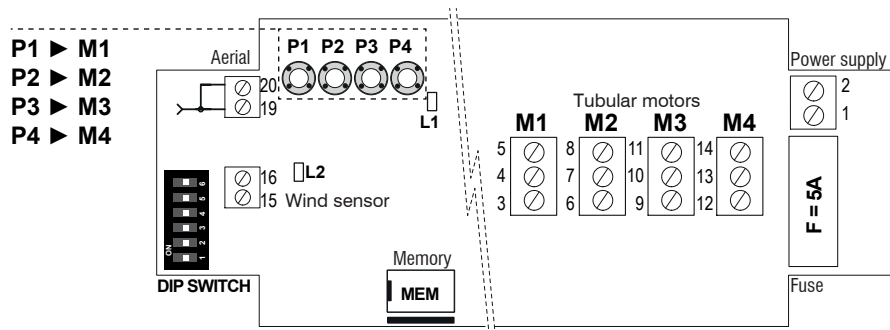


DESCRIPTION OF LIGHTING WIRING COMPONENTS			
7	CONTROL UNIT WITH POWER PACK FOR PERIMETER LEDES	8	CONTROL UNIT WITH POWER PACK FOR BRISE SOLEIL BLADE LEDES



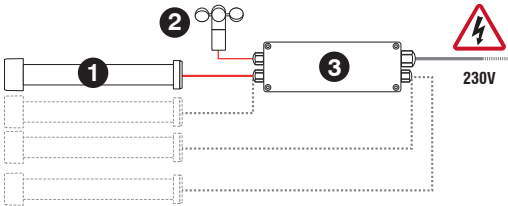
For further information about the control unit for the motors, sensors, lighting control unit, see the specific instructions enclosed with the control unit.

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

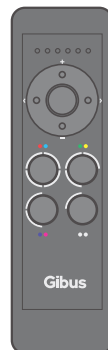


6.5 RADIO CONTROL

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 9 channel/63 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.

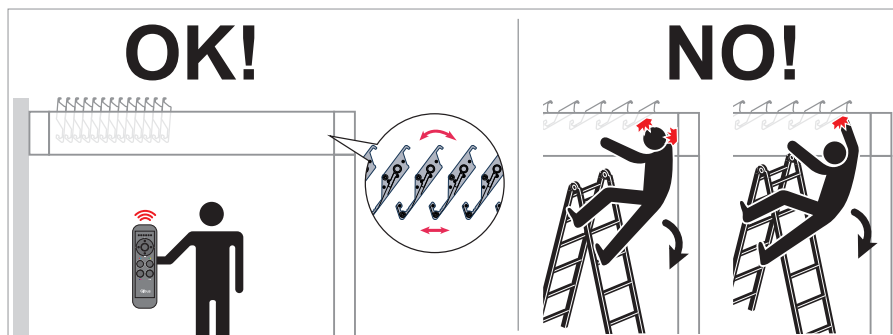


IMPORTANT: To properly set up the Pergola, follow the “Installation Instructions” attached to this manual and included in the accessory box or in another part of the package.



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 from 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; the brise-soleil blades must be retracted before snow has accumulated onto them. Once snow has deposited on the blades, it can prevent the blades from being retracted and folded). 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).



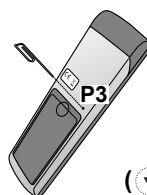
ATTENTION: for safety reasons before activating the VELVET PLUS side drop awnings, make sure that there are no person or objects that prevent the awning from opening or closing.



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

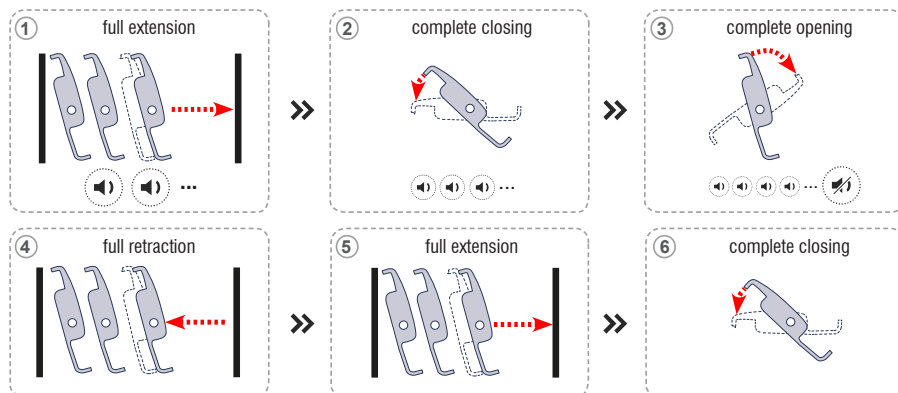
The control unit manage the motors and the transmitter (radio control) have been already set up at the factory. **After the electrical connection, match the limits from the transmitter without entering the control unit.**

To make self-learning of limit switches, position on the channel where the motors are stored (pressing the button over the transmitter already stored). Press the **P3** key of the **stored** transmitter and keep it pressed. When the profiles start moving autonomously, it is possible to release the P3 key and wait for the end of the 6 handling phases.



MEMORIZED

(▼ 10")



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

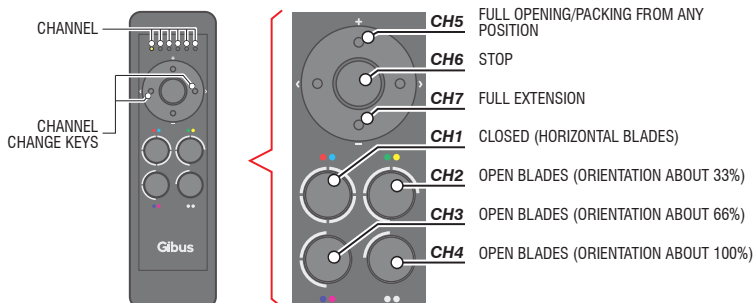
i IMPORTANT!: the wind and rain sensors, if any, have already been set up at the factory. Position them properly and set the thresholds according to the instructions given in the sensor boxes. For the other sensors, follow the specific installation instructions.

The bioclimatic pergola can be opened and closed using a portable or wall fixed remote control (see paragraph 6.3), the bioclimatic pergola must only be activated from a position that gives a full viewpoint of the blade movement.

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.

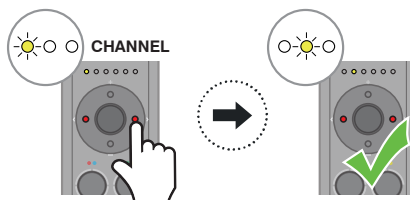
CHANNEL TRANSMITTER WITH PROGRAMMED CHANNEL FOR THE MOTOR

NOTE: The 9 channel/63 position version is given as an example





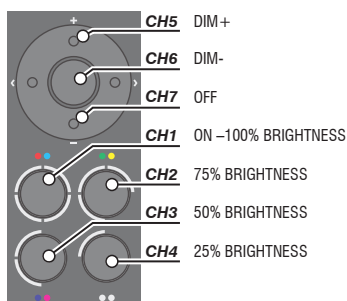
6-channel mode: the 6 leds indicate 6 command groups. press the keys "a" or "b" to switch between channels of the transmitter. the selection remains in memory, even with the transmitter off, until the next change. it is sufficient to press a key of any channel to reactivate the last selection.



TRANSMITTER WITH PROGRAMMED CHANNEL FOR BLADE SPOT LEDS

NOTE: The 9 channel/63 position version is given as an 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.

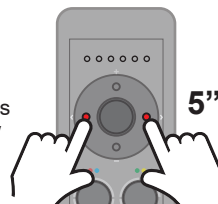
MULTI-TRANSMITTER MODE (UP TO 9 CHANNELS)



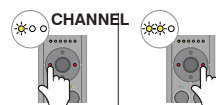
The multi-transmitter mode is necessary when the pergola has more than 6 complements / accessories to associate.



it is possible to activate 3 more control groups in addition to the 6: make sure that the leds are off; after which press and hold the two buttons "a" and "b" simultaneously for 5". the leds will turn on in sequence from 6 to 1, and then stay on for a few seconds.



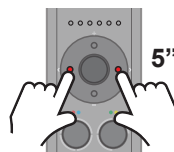
with this function activated, press the key "a" of the transmitter to manage the standard groups from 1 to 6 (for each channel the corresponding led comes on). press the key "b" of the transmitter to manage additional groups from 7 to 9 (a couple of leds turn on each channel).



KEY "A":
1÷6 CHANNELS 7÷9 CHANNELS

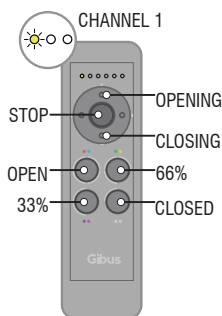


to deactivate the 3 groups, simply press and hold the two "a" and "b" buttons simultaneously for 5". the numbers will turn on in sequence from 6 to 1, and then stay on for a few seconds.

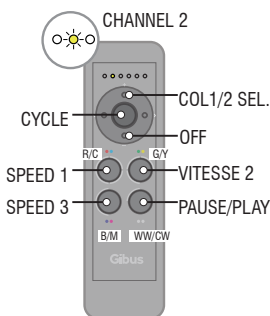


EXAMPLES OF TRANSMITTER WITH PROGRAMMED CHANNELS:

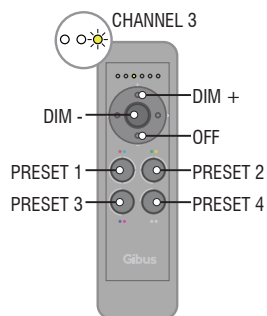
PERGOLA COMMANDS



RGB DIMMER COMMANDS



DIMMER COMMANDS

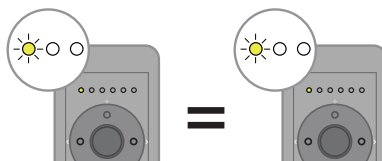


In the multi-module versions the commands can be independent (one same command is programmed in each single module and consequently associated with multiple channels), or synchronized (the command is associated with a same channel to manage all modules simultaneously).

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:



REMOTE DELETION OF A RADIO CODE

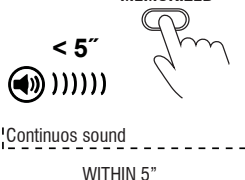
Press the button **P3** of the memorized transmitter **3 times** and hold. The buzzer emits a slow intermittent sound. Press a button relative to the code to be deleted within 5 seconds. Upon completion of deletion, the buzzer will stop.

MEMORIZED



Keep pressed

MEMORIZED

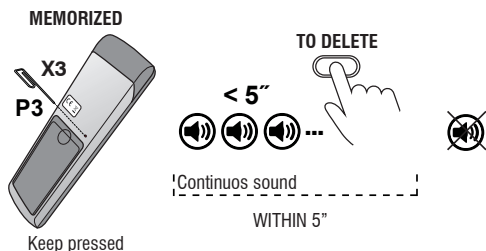


NEW



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.

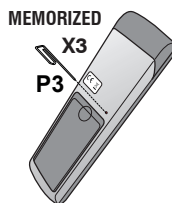


CAUTION: Direct the blades partially opened in the case of very strong rain, hail, strong wind, snow and ice; it is dangerous to leave the blades closed in these cases, it can cause injury to persons and damage to property. Under the same circumstances rewind the side closures Screen VELVET PLUS.

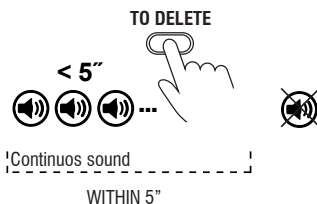
REMOTE DELETION OF A RADIO CODE



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\"



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



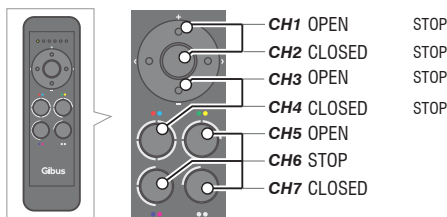
The motor control unit of the side drop awnings allows the following:

- 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.).

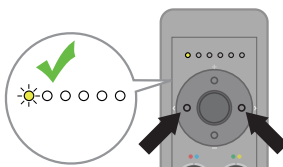
Programming the side drop awning with the control unit:

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.



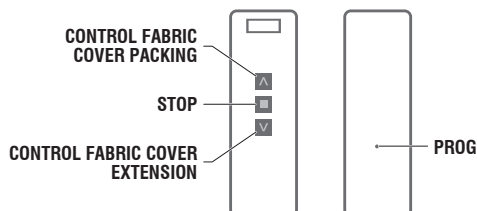
See the Installation Instructions and the control unit manuals to memorize other radio codes and modify the limit switches. **IMPORTANT:** Keep the Installation Instructions and the specific manuals of the control units.

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 for radio engines of the awning involves the use of a radio control which allows to control the movements of the fabric cover in a simple and intuitive way:

The button ▲ controls the packing of the fabric cover while the button ▼ controls the extension of the fabric cover.
The button ■ stops the movement of the awning.



The radio control is programmed/matched during the 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 VELVET PLUS.



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



CORRECT
folding direction



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 inevitable 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 – ammoniaca – idrocarburi;**
 - **fare asciugare with the blades placed vertically dopo la pulizia.**
- In caso di dubbio rivolgersi al rivenditore.**

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.
- Check the belt tension
- 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 **VELVET PLUS**

N. INSTALLAZIONE	
DATA	TECNICO
1. Verifica dell'installazione e della conformità al progetto.	
2. Verifica della corretta installazione dei componenti.	
3. Verifica della corretta installazione dei brise-soleil.	
4. Verifica della corretta installazione dei bracci.	
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100. Verifica della corretta installazione dei bracci.	

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;
- disconnect the power supply to the system;
- disconnect the system downstream the cut-off switch,
- disconnect the engine,
- disconnect the control units.

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°-85°).	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 advance in non-parallel mode.	Drive belt broken	Replace the drive belt.
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.
When the control unit is turned on it gives an intermittent beep and L3 flashes.	Control unit not configured.	Configure the control unit, see paragraph 2.
After configuration, L3 flashes and the beep continues.	Control unit not configured correctly.	Repeat the configuration procedure, ensuring that the dipswitch is NOT moved at the end.
When P1 and P2 are pressed twice, the configuration does not begin.	P1 and P2 were not pressed simultaneously.	P1 and P2 must be pressed simultaneously. No more than 1 second must pass between pressing the first and second.
After resetting, the control unit does not respond to the commands.	DIP6 on the ON position.	Check that DIP6 is OFF.
The continuous beep is not heard when a transmitter is being stored.	Keys pressed at incorrect times.	No more than 1 second must pass between pressing one key and the next.

PROBLEMS	CAUSES	REMEDIES
The continuous beep is not heard when a transmitter is being stored.	Keys pressed at incorrect times.	No more than 1 second must pass between pressing one key and the next.
A transmitter/remote control cannot be stored.	The radio code is already stored or the memory is full.	Add a transmitter/remote control.
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 compact perfectly. The awning does not open fully.	Incorrect endstop regulations.	Adjust the endstop regulations as given in the installation instructions.
Noisy motor.	Faulty motor.	Request technical assistance.
Motor does not turn.	Incorrect cabling.	Check the electric circuit against the attached diagrams.
	Faulty motor.	Check the motor and replace if needed.
	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 motor stops after 4 - 5 minutes of continuous use.	Motor thermal protection triggered.	Let the motor cool down.
The front cover does not fully extend on both sides or one side.	Guides not perfectly aligned.	Align the guides correctly.

WITH RTS, RX OR IO ENGINES AND BUILT-IN RADIO CONTROL

The engine does not start up.	Programming error or unplanned. Discharge.	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

The awning does not pack in case of strong wind.	Control unit or anemometer failure or has been set to high sensitivity values.	Replace the Control Unit and/or the wind sensor.
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.

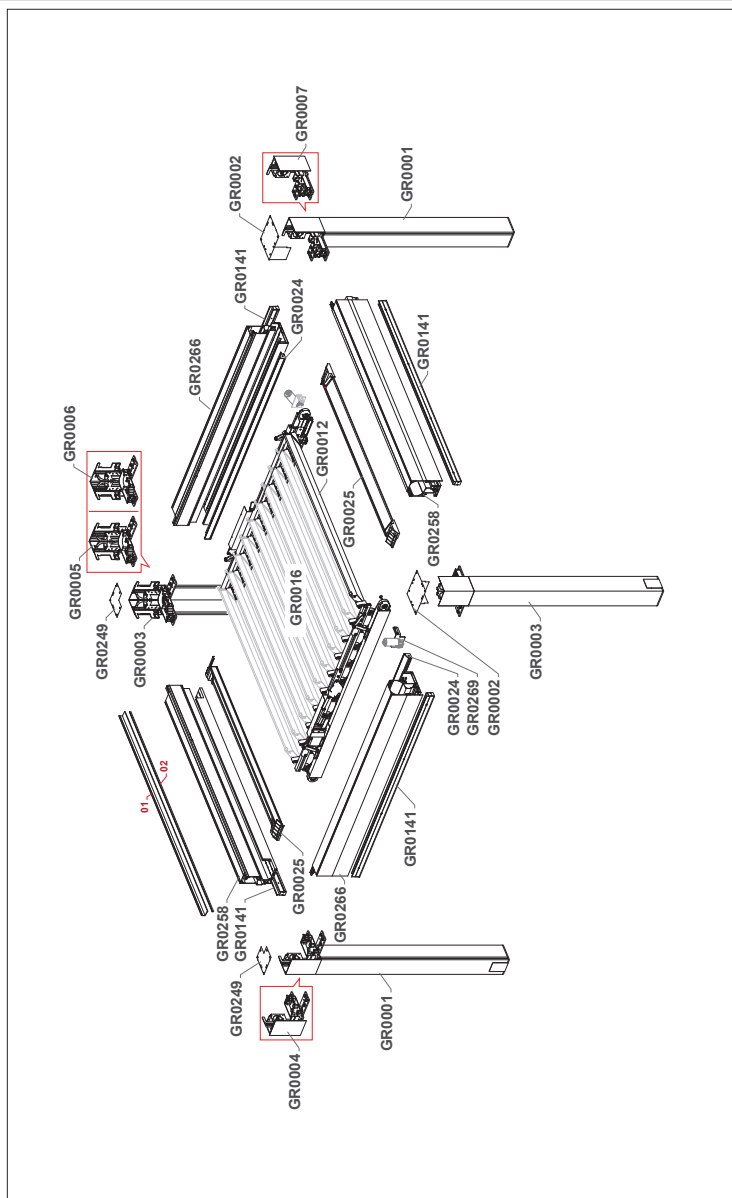
via Einaudi 35 35030

Saccolongo (PD) - ITALY

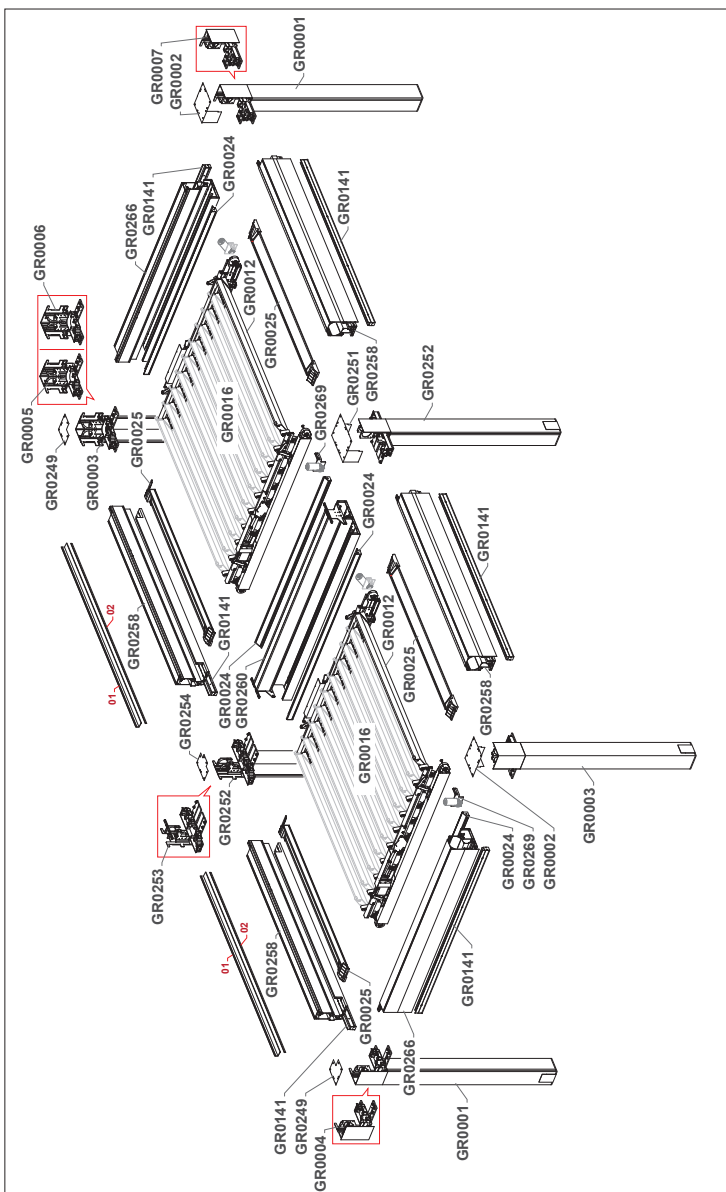
For any dispute, is elected as the only jurisdiction that of Padua Italy.

CHAPTER 13: EXPLODED DRAWING OF VELVET PLUS

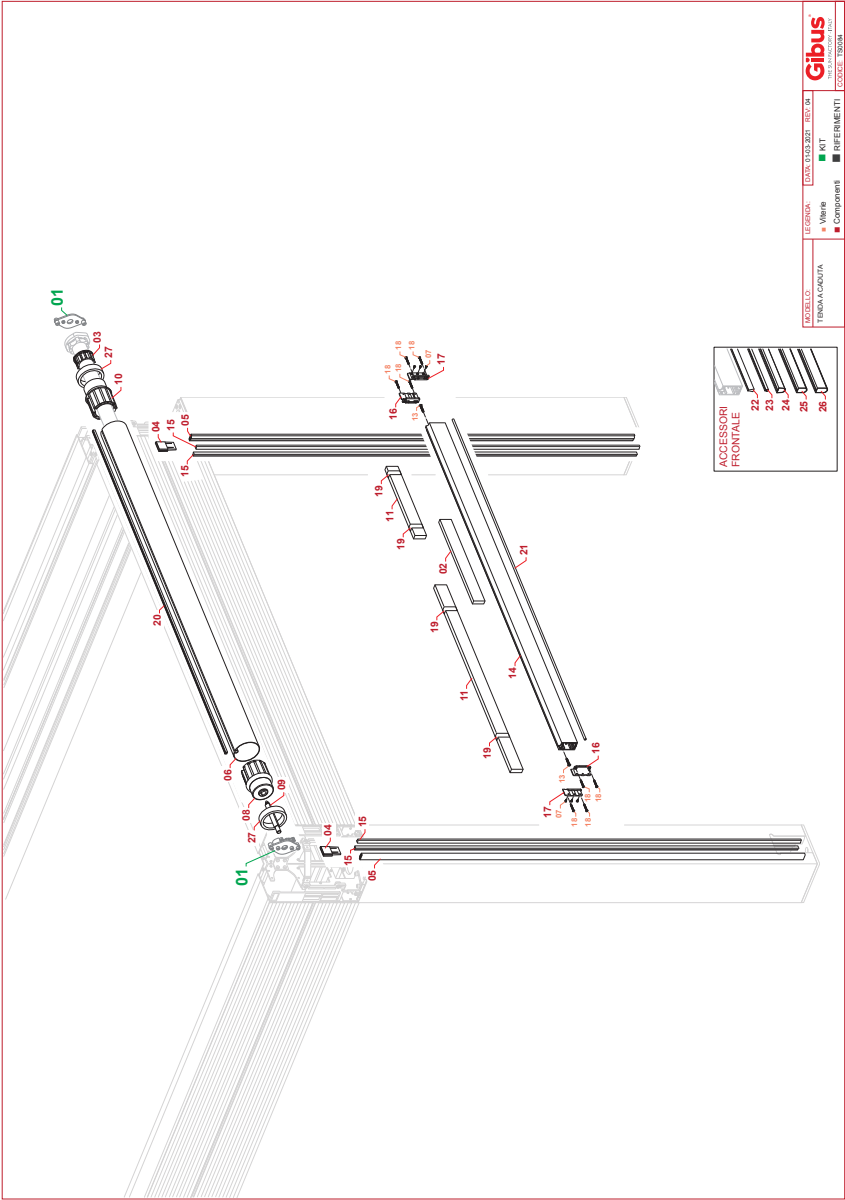
13.1 1 MODULE



13.2



13.4 VELVET PLUS DROP AWNING



CHAPTER 14: TECHNICAL NOTES

14.1 DECLARATION OF INSTALLATION

DECLARATION OF INSTALLATION (to be filled by the installer)			
VELVET PLUS			
<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:

Rev 1/10/22

YOUR REF.:		OUR QUOTATION NO.:				COMPANY:	
SIDE OF THE PERGOLA	L (recess inner edge of the post)	H (recess under the gutter)	MOTOR	CONTROL POSITION (external view)	POWER CONTROL	FABRIC	DATE:
AX1							
AX2							
AY1							
AY2							
AX3							
AX4							
AV3							
AV4							
BX1							
BX2							
BY1							
BY2							
BY3							
BY4							
<p>ISLAND</p> <div style="display: flex; justify-content: space-around;"> <div> <p>Diagram showing dimensions Ax1, Ax2, Ay1, Ay2 for the Island layout.</p> </div> <div> <p>Diagram showing dimensions Ax1, Ax2, Ay1, Ay2, Bx1, Bx2 for the Island layout.</p> </div> </div>							
<p>FRONT LEANING</p> <div style="display: flex; justify-content: space-around;"> <div> <p>Diagram showing dimensions Ay1, Ay2, Ax1 for the Front Leaning layout.</p> </div> <div> <p>Diagram showing dimensions Ay1, Ay2, Ax1, Ay3, Ay4, Bx1 for the Front Leaning layout.</p> </div> </div>							
<p>LATERAL LEANING</p> <div style="display: flex; justify-content: space-around;"> <div> <p>Diagram showing dimensions Ax1, Ax2, Ay1, Ay2 for the Lateral Leaning layout.</p> </div> <div> <p>Diagram showing dimensions Ax1, Ax2, Ay1, Ay2, Bx1, Bx2 for the Lateral Leaning layout.</p> </div> </div>							

DELIVERY ON:

☐ Delivery Gibus

☐ Ex works

SHIPMENT:

14.2 MAINTENANCE AND NOTE REGISTER

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

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.



(*) 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 (*) VELVET PLUS side drop awning		
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.



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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:
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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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(*) 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 (*) VELVET PLUS 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.

DECLARATION OF INSTALLATION (*) VELVET PLUS side drop awning		
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

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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.



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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.



(*) 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 (*) VELVET PLUS side drop awning		
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) 22	 EN 13561
Declaration of Performance no: Bioclimatic Pergola with brise soleil adjustable and packable for external use MODEL: Gibus® mod. VELVET PLUS Wind resistance VELVET PLUS: Wind resistance Side drop awnings: Total solar energy transmittance g_{tot} VELVET PLUS: Total solar energy transmittance g_{tot} Side drop awnings:	MUT 114-CPR-15-03-2022 Technical class 5 Technical class 3 See the production specifications on the back cover See the production charts in the previous pages

ANNEX 1 - SELF-CERTIFICATION DOCUMENT (*)

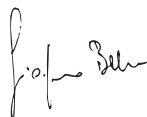
PERFORMANCE DECLARATION no: MUT 114-CPR-15-03-2022

1. Unique identification code for the product-type: Gibus® mod. VELVET PLUS
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 5 of the VELVET PLUS - 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}	$g_{tot} >= 0,50$	$0,35 <= g_{tot} < 0,50$	$0,15 <= g_{tot} < 0,35$	$0,10 <= g_{tot} < 0,15$	$g_{tot} <= 0,1$

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, 15/03/2022
 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.

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 soleil adjustable and packable for external use MODEL: Gibus® mod. VELVET PLUS Wind resistance VELVET PLUS: Wind resistance Side drop awnings: Total solar energy transmittance g_{tot} VELVET PLUS: Total solar energy transmittance g_{tot} Side drop awnings:	MUT 114-CPR-30-10-2022 Technical class 5 Technical class 3 See the production specifications on the back cover See the production charts in the previous pages

ANNEX 3 - SELF-CERTIFICATION DOCUMENT (*)

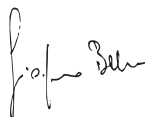
PERFORMANCE DECLARATION no: MUT 114-CPR-30-10-2022

1. Unique identification code for the product-type: Gibus® mod. VELVET PLUS
2. Serial number: **see the HOLOGRAM on the back cover**
3. Designed use: **Bioclimatic Pergola with brise Soleil 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 5 of the VELVET PLUS - 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, 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.